

HiPic/HPD-TA Remote Control Programmers Handbook

HiPic/HPD-TA Version 6.3.0

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General

The following document describes how the HiPic/HPD-TA can be controlled by another application. This documentation is written for programmers who intends to make a client program using the HiPic or HPD-TA remote control component. It is assumed that the programmer is familiar with the purpose and the usage of the standalone version of these programs. Its is also assumed that the programmer is familiar with a programming language capable of using a COM component. This document is no programming lecture for those not familiar with either of the a.m. topics. For those not familiar how to use the standalone versions of these programs it is recommended to read the HiPic or HPD-TA user manual first. It is also recommended to provide all the hardware which is needed to run the application which should be developed.

About this manual

As the concept for HiPic and HPD-TA is the same and most of objects are identical this manual describes both versions. The manual starts to describe the basic concept of programming the HiPic/HPD-TA ActiveX component. As a basic feature the interface objects are described next. The usage of the main objects (like the Application or the Images object) are described roughly mentioning the available features of all these main objects. The configuration of a remote server is described in detail in the following chapter. For those familiar with programming with HiPic/HPD-TA 6.1 a chapter describes the difference between version 6.1 and the current version 6.2. The Appendix describes all properties, methods and events of all public objects. The identical information is also contained in the component itself (You can view this information for example with the Visual Basic 6.0 object catalog or a similar tool). As the object catalog describes only the purpose of these properties, methods and events and not the parameters, these parameters are described additionally in the respective chapters. Finally sample programs are introduced and explained.

Purpose and general realization

The purpose of the HiPic/HPD-TA remote control is to control the functions of the HiPic and the HPD-TA from another application (called the client program). To realize this, the mechanisms of COM (=component object model, also referred to as "Automation") are used to control the functions of the HiPic/HPD-TA (called the automation-server). The general principle is that the client programmer can access every function which is accessible by the standard HiPic/HPD-TA user interface. The automation-server behaves then exactly as if the user had invoked the corresponding command on the user I/F (with some logical exceptions). We can say that "programming is as easy as using the standalone program".

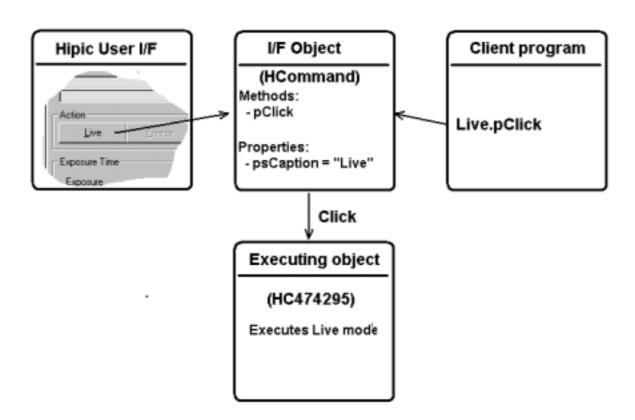
The interface objects

In order to realize the target that "programming is as easy as using the standalone program" a set of interface objects have been created. Every interface object represents a control element on the HiPic/HPD-TA User I/F. For every type of control element a different type of interface object is created. There a object types for command buttons, check buttons, edit fields for numbers etc. These interface objects are logically located between the User I/F and the executing code. These interface objects can be accessed both by the HiPic/HPD-TA user I/F and the client program. The interface objects are independent of any user I/F. If, however, a

HiPic/HPD-TA user I/F is used every interface object has one (or several) so called reference objects. Any changes on the interface objects is reflected to these reference objects. If e.g. the user changes the value of a checkbox type interface object the reference checkbox changes its status simultaneously.

As an example see the following diagram. We use a very simple interface object: the HCommand object. In our example we use the HCommand object which is associated with the "Live" pushbutton on the C4742-95. This interface object can be accessed from both the HiPic/HPD-TA user interface and the client program. Every interface object has properties, methods and events.

One of the methods of the HCommand I/F object is the "pClick" method. Whenever the "pClick" method is invoked the object raises an event "Click". The executing object will detect this event and consequently execute the Live mode. The HiPic/HPD-TA user interface calls this method when the user clicks to the Live pushbutton on the C4742-95 camera dialog. This method can be executed from a client program as well. The result is the same: The Live mode starts. Of course this is true for all other pushbuttons which can be pressed on the user I/F. To explain the meaning of a property we take the psCaption property of the HCommand object. When this property is set the labeling on the corresponding pushbutton will be changed.



Type of I/F objects and naming conventions

There are many types of interface objects. Here is a list of all available types. The names of the interface objects follow a special naming convention. It is easy to find out the corresponding control element on the user interface when knowing the naming convention.

The following naming conventions are used to name I/F objects:

pHXxxYyyZzz (example: pHComMainLive)

P means public, H means HiPic/HPD-TA, Xxx stands for the type of class, Yyy is the name of the dialog, and Zzz is the name of the control (Where Zzz can consist of several parts in some cases. Example: phCh4CamClearFrameBuffer, Zzz=ClearFrameBuffer). In our example Com=HCommand, Main=Main Dialog, Live=Live mode command

The following I/F classes are existing:

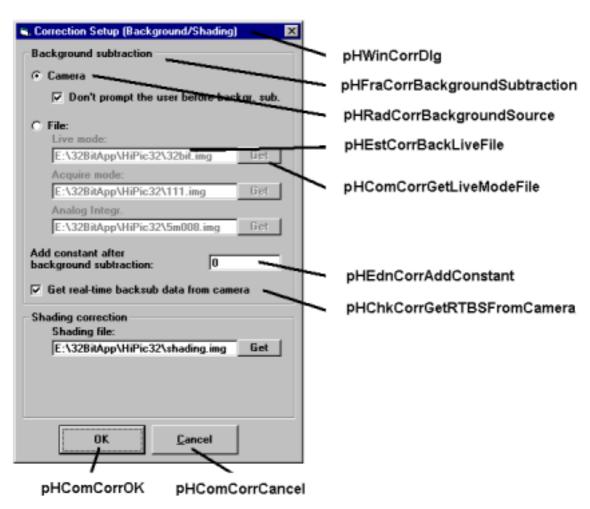
	owing i/F classes are existing	
Short	Name	Description
Che	HCheck	Check Box
Ch4	HCheck4Array	Array of 4 check boxes (for the 4 acquisition modes)
Com	HCommand	Command button
Co4	HCommand4Array	Array of 4 command buttons (for the 4 acquisition modes)
Dis	HDisp	Display element
Di4	HDisp4Array	Array of 4 display elements (for the 4 acquisition modes)
Edn	HEditNumber	Edit box for number input
Ed4	HEditNumber4Array	Array of 4 edit boxes for number input (for the 4 acquisition modes)
Est	HEditString	Edit box for string input
Es4	HEditString4Array	Array of 4 edit boxes for string input (for the 4 acquisition modes)
Ent	HEntry	Entry input (slidebar with edit box or combo box)
En4	HEntry4Array	Array of 4 entry input (slidebar with edit box or combo box)
Fra	HFrame	Frame control
Fr4	HFrame4Array	Array of 4 frame controls (for the 4 acquisition modes)
Men	HMenu	Menu Entry
Pro	HProgress	Progress bar
Pr4	HProgress4Array	Array of 4 Progress bars (for the 4 acquisition modes)
Rad	HRadios	Group of radio buttons
Ra4	HRadios4Array	Array of 4 group of radio buttons s (for the 4 acquisition
		modes)
Sta	HSingleTab	Single Tab on a Tab array
Tab	HTab	Tab array
Win	HWindow	Dialog Window or a dependent window
W20	HWindow20Array	Array of 20 Window controls (for image windows)
Lut	HLut	LUT control within the LUT control dialog
Ima	HImageArea	Image display area on a image window
Dev	HDevPar	Device parameter (HPD-TA external devices only)

Availability of interface objects

To have access to a specified control element on any user interface (this is not only true for the HiPic/HPD-TA) several conditions have to be fulfilled:

- The dialog must be shown on the screen
- The control element must be visible and enabled
- The window where the control element is embedded must be visible and enabled
- Sometimes this window is also embedded in another window etc. which means there is a full hierarchy of windows which have to be enabled and visible to allow the control element to be accessible

This situation is reflected by the interface objects with the properties pfVisible pfEnable and pcParent. When a control is not visible on the screen the corresponding interface objects property pfVisible is FALSE, when a control is not enabled the corresponding interface objects property pfEnabled is FALSE. The property pcParent of the interface object contains a reference to the window where the control element is embedded. The last element in the hierarchy is the dialog window where all control elements are located.

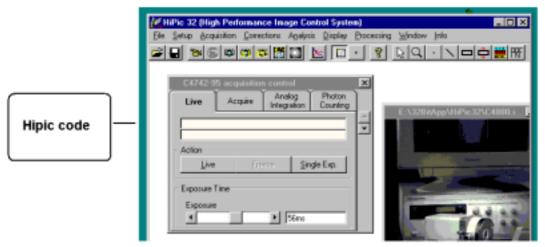


We will look at the Correction setup dialog as an example. The HEditNumber object "pHEdnCorrAddControl" is embedded into the HFrame object "pHFraCorrbackgroundSource" The object "pHFraCorrbackgroundSource" is embedded in the "pHWinCorrDlg". Therefore the parents of these objects are: pHEdnCorrAddControl.pcParent = pHFraCorrbackgroundSource pHFraCorrbackgroundSource.pcParent = pHWinCorrDlg pHWinCorrDlg.pcParent = Nothing (This is the topmost element in the hierarchy) To fascilitate the task to find out whether an interface object is accessible or not every interface object has an additional property pfControlAvail. If this is true the control element is accessible. The pfControlAvail property internally checks all pfVisible and pfEnabled properties of all higher order interface objects up to the dialogs window HWindow object.

Using the HiPic/HPD-TA User Interface

There are three ways of using the HiPic/HPD-TA User I/F.

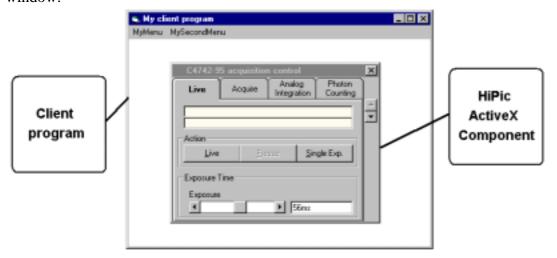
The simplest way is to use the standalone version of the HiPic/HPD-TA. In this case the full HiPic/HPD-TA User I/F is shown. No other dialogs can be used.



HiPic/HPD-TA Standalone

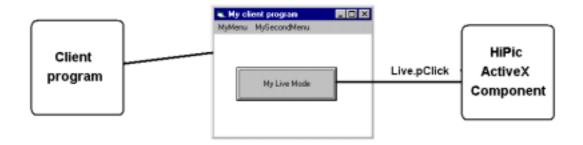
The second way is using some (or all) dialogs from the HiPic/HPD-TA User I/F together with a client programs main window. The dialogs from the HiPic/HPD-TA User I/F can be placed into the client's main window like a child window or can be used as a standalone popup window. This is very convenient for the client programmer. No code has to be written for accessing the individual controls on these dialogs.

Showing these dialogs is done by setting the pfUserIF and the pfVisible properties of the main dialogs HWindow object to TRUE. By setting the plHWndParentWindow property of this HWindow object to the window handle of the window which should be the parent window.



Clientprogram is using dialogs from the HiPic/HPD-TA User I/F

The third way of using functionality within the HiPic/HPD-TA ActiveX component is to use the individual controls without showing the HiPic/HPD-TA User I/F. In this case individual access has to be made to the Interface Objects. This is mandatory if the client is running on a different computer than the server.



Client program using only the functionality of the HiPic without using the HiPic/HPD-TA User I/F.

Showing and hiding dialogs

To access any interface object on a dialog all involved interface objects must have set its pfVisible and pfEnabled properties to true. To allow to control such interface object without showing the corresponding dialog the HWindow object (the topmost interface object in the hierarchy) has an additional property pfUserIF. When this property is set to FALSE the dialog is not shown on the screen. The value of this property, however, has no influence on the accessibility of the interface objects on this dialog. Thus setting this property to TRUE will show the dialog and setting it to FALSE will not show the dialog. This property allows to develop applications where no HiPic/HPD-TA user IF is used. During development the property can be set to TRUE to visually check what happens. When the development is finished the property can be set to FALSE the same things will happen but without showing the dialog on the screen (Of course showing the dialogs take some time so that the program may run a little bit faster without the user I/F). The dialog window and all the related controls are created as soon as both properties pfVisible and pfUserIF are set to TRUE. If one or both of these properties are set to FALSE the dialog will be unloaded. Sometimes, however, one needs to access the window itself (maybe by using its window handle) before it is visible. In such case the properties pfVisible and pfUserIF must be set to TRUE (otherwise the window will not be created) but it should not be displayed. To archive this the property pfHideWindow can be used to hide the window. To perform this task set the pfHideWindow property to TRUE, then set the properties pfVisible and pfUserIF to TRUE, after that the window is created and can be accessed with its window handle. To show the window finally it is sufficient to set the pfHideWindow property back to FALSE. Sometimes showing and hiding of a dialog is done by another command. Let us take the a.m. example of the correction setup. Showing is normally done by executing the menu command "Correction Setup" and hiding is done by the "OK" or "Cancel" pushbutton. It is recommended to do the same thing by calling the corresponding interface objects, not just setting the pfVisible property to TRUE and FALSE. The program may need to execute the code which is associated with the menu or pushbutton calls. E.g. the Setup will not correctly be performed if the dialog is just hidden by using the pfVisible property. Executing the pHComCorrOK.pClick method is necessary to make correct setup in this case.

Standalone program and COM components

For both HiPic and HPD-TA there will be two versions: An ActiveX-EXE and an ActiveX-DLL (ActiveX is another word for COM component).

The ActiveX-EXE (its filename is HiPic32u.exe and HPDTA32u.exe) can be started as a standalone program just by clicking on the icon. It can also be started from a client program and then has the function of a component. This component can be used both by a client on the same computer and a client on a different computer (DCOM). To use an ActiveX-EXE component provides more security because a fatal error in the component does not shutdown the client application. Direct memory access from the server to the client is not possible for an ActiveX-EXE component. Transferring image data has to be done by dumping and reading the data to a file.

The ActiveX-DLL (its filename will be HiPic32u.dll and HPDTA32u.dll) can only be started by a client program and runs in the same address space as the client program. This allows very fast access to the functions and data and allows direct access to image data by memory handles. It is only possible when the server and the client is running on the same computer. Depending on the host (=server application) there can be some restrictions concerning the display of non modal dialogs. (In some cases non modal dialogs cannot be shown. We do not have much information about this topic jet. The only thing which is clear that an application developed under VB5.0 or VB 6.0 is able to show non modal dialogs).

Object model and main objects

The HiPic and HPD-TA has a well defined object model. The topmost object in the object model of the HiPic or HPD-TA is the HAppHiPic or HAppHPDTA object. This object has several dependent objects (The interface objects which belongs to these objects are not listed) These are:

```
HAppHiPic:
     pHACam
     pHC4880
     pHC488080
     pHC474295
     pHC474298
     pHC7300
     pHC800010
     pHC800020
     pHFlatPanel
     pHAcq
     pHAsyncCommand
     pHImages
     pHLicence
     pHLUTControl
     pHMessageBox
     pHSequence
     pHSystemScaling
HAppHPDTA:
     pHACam
     pHC4880
     pHC488080
     pHC474295
     pHAcq
     pHAsyncCommand
```

pHImages

pHLUTControl pHMessageBox pHSequence pHSystemScaling pHExternalDevices

Some of these objects again have some dependent objects these are:

HImages:

HImage (There are 20 dependent images)

HExternalDevices:

HExternalDevice (Currently there are 3 dependent ExternalDevices)

Some of these objects have more dependent objects but they are not public so these dependencies is not of interest here.

To give two examples:

To access the object HAcq one can write: HAppHipic.pHAcq.

To access one image object one can write: HAppHipic.pHImage.pcItem(Index).

Using the I/F objects

General

The I/F objects provides access to all features of the program. Making a client program will consist to a large extent on using properties, methods and events of the I/F objects. According to the different types of controls there are different types of I/F objects (We call the defining code of such an I/F type a "class"). There are many features which are common to all or several of these I/F classes. The following description will explain such common features only once describing a selected I/F class. The description is valid for all other classes with the same features. Thus it is recommended that you read the whole chapter as one unit because later parts of the chapter assume that you know the content of earlier parts. It starts form the simples interface objects and ends up with the most complex ones.

Properties, Methods and Events

Properties are referring to a single value like an integer number or a string. They can have read only or read/write attribute. Many properties have read only attribute. Only those properties which allows access to features which are also accessible to a user of the standalone program have read/write attribute. Properties normally can be read at any time, they can, however, be written only if the corresponding object is accessible. This is only true if the pfEnabled and pfVisible property of the object is TRUE and if this is true for all related parent objects (See the chapter "Availability of I/F objects" for details). As a property cannot have a return value there is no way to know whether the property could be set correctly. To inform the client program of any problem during access of a property an error is raised in such cases. It is the clients programs responsibility to correctly handle the errors raised by the component or to avoid such errors. An unhandled error will lead to a fatal problem in the client program. Normally the property has a valid range of values. Writing a value to a property which is out of range will also result in an error. A simple example of a property is the pfVisible property of most of the I/F classes which indicates whether the associated control is visible or not.

The I/F classes also contain methods. If the object is not enabled calling the method will also result in an error and the method is not executed. A simple example of a method is the pClick method of the HCommand object which can be executed when the corresponding command should be executed.

The I/F objects also raises events to inform the client program on changements of properties or similar information. A simple example of an event is the ChangeVisible event which is raised when the pfVisible property of the object changes. Some of the events are used by the HiPic/HPDTA to execute code. In this sense the HiPic/HPDTA is a client as well and it is not defined who will get the event first (An event is sent to all clients one after the other in an undefined order). As an example we will take the Click event of the HCommand object. This event is raised when the pClick method is executed by either the user or the client program. The HiPic/HPDTA will use the Click event to execute the associated command. When the client program gets the Click event the HiPic/HPDTA has already executed the associated command or it will do it after the client program get the event (This depends on the fact who gets the event first). As a consequence the program cannot rely on the fact that code which is executed with a certain event is already executed when the client program gets the event or not. In some cases there are several events in a series to get a well defined order.

HCommand object

The HCommand object is the simples I/F object. It has the following public properties / methods / events:

Event	ChangeEnabled()		Event which is raised when the pfEnabled property changes
Event	ChangeVisible()		Event which is raised when the pfVisible property changes
Event	Click()		Event which is raised when the pClick method is executed
Read only property	pcParent()	Object	Returns a reference to the parent object of this object. If this reference is Nothing this object is the topmost object within the object hierarchy (normally the HWindow object of the associated dialog)
Read only property	pfControlAvail()	Integer	Returns a value which specifies whether the object can be controlled by the client programmer (This is dependent on the pfVisible and pfEnabled properties and those of its parent)
Read only property	pfDlgHasUserIF()	Integer	Returns a value which specifies whether the associated dialog has a user I/F
Read only property	pfEnabled()	Integer	Returns a value which specifies whether the object is enabled
Read only property	pfVisible()	Integer	Returns a value which specifies whether the object is visible
Read only property	psName()	String	Returns the name of the object
Read/write property	psCaption()	String	Sets or returns the text which is used to label the associated control
Sub	pClick()		Method which raises the Click-Event and executes the associated command
Sub	pRegEvent(ByVal sEvent As String, ByVal fBasicEvent As Integer)		Should not be used by clients! (Registers an event to the error handler)

The HCommand has 3 events: ChangeEnabled, ChangeVisible and Click. The ChangeEnabled event is raised when the pfEnabled property changes. The ChangeVisible event is raised when the pfVisible property changes. The Click event is raised when the pClick method was called by either the HiPic/HPD-TA or the client program was called. The HCommand has 6 read only properties: pcParent, pfControlAvail, pfDlgHasUserIF, pfEnabled, pfVisible and psName. The pfEnabled and pfVisible properties define whether the associated control is enabled or visible. The pfControlAvail property returns a value which specifies whether the object can be controlled by the client programmer (This is dependent on the pfVisible and pfEnabled properties and those of its parent). Use this property to make sure that you can write to read/write properties or execute methods of the object. The pfDlgHasUserIF property returns the UserIF property of the dialog on which the object is located. This may be of interest if you want to know whether there is already a user interface for the object you want to access (Sometimes it may be misleading or confusing if the client program changes values of control which are visible to the user). The pcParent property

returns a reference to the object where this object is embedded. As it is not known at compile time which object type will be the parent object the definition of pcParent is "As Object". The topmost object in the object hierarchy is the dialog window. In such case the pcParent propery is "Nothing".

Important: Do not confuse the pcParent property with the plHWndParent property of the HWindow object. Even if the dialog window is a set to be a child window of another window with the plHWndParent property the pcParent property of the dialog is still "Nothing". The reason of this is that a dialog can be placed as a child window to every other window where the window handle is know even if there is no HWindow object associated with this window. This is generally the case for windows the client program has created (A client program cannot create a HWindow object).

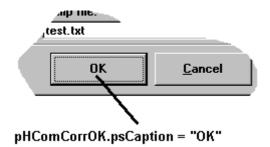
The psName property is the name under which the object is created in the HiPic/HPDTA. It is generally identical to the public name under which it is known to the client program with the exception that the first letter of the name is "m", whereas the first letter of the public object is "p" (The HMenu object to save an image has the psName property "mHMenMainSaveAs", but it is known as HAppHPDTA.pHMenMainSaveAs in the HPD-TA).

The HCommand object has one read/write property, the psCaption property. This property is used to label the associated pushbutton (see the screenshot below). The HiPic/HPD-TA sets this property to a reasonable value, however, the client program can change the property. As this property can be changed by the client you should not use it to identify the object. By using the write access of this property the client program can modify the naming of all labels. As one example you may wish to change the labeling "Acquire" to become "Get Image" on the camera dialog. Of course you have to take care that your label is fitting on the provided space on the command button.

The HCommand object has 4 methods: pClick, pRegEvent.

Only one should be used by the client programmer: the pClick method. It can be used to execute the associated command. As an example we take the pHImages.pHComOptOK object. By using the pHImages.pHComOptOK.pClick method we can execute the OK command within the Images options dialog.

The method pRegEvent is defined as public due to internal reasons and should not be used by clients.

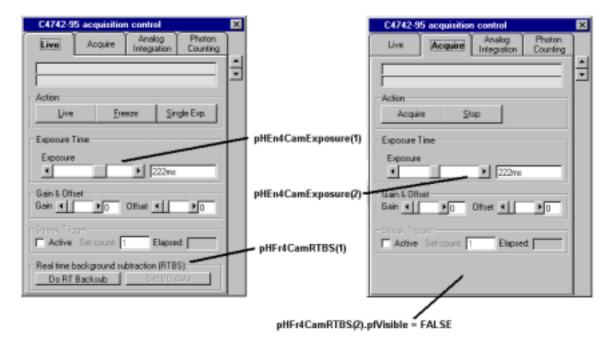


HCommand4Array object and other arrays

A group of 4 HCommand objects are grouped into one object: a HCommand4Array object. All HCommand objects can be accessed by one single object reference. Access to an individual HCommand can be done by the pcItem(Index) property. An event raised by an individual HCommand object is repeated by the HCommand4Array with an index indicating the index of the HCommand which has raised the event. Grouping of such objects is done because every camera dialog uses 4 Tabs for the 4 acquisition modes (Live, Acquire, AnalogIntegration and PhotonCounting). The same object is placed once on every Tab, thus enabling 4 different parameter settings one for every acquisition mode. Also sometimes a control is not visible on some Tabs (see the screenshot below). Sometimes other objects are

grouped like in the object HWindow20Array (an array of 20 HWindow objects used for the images), HExternalDevices (three external device types), HDevPars (containing all device parameters), HImages (containing all Images).

The following description does no longer refer to such groups it only refers to the single object.



HMenu

The HMenu object is almost identical to the HCommand object with one single exception: it has an additional property pfChecked and an event ChangeChecked. The pfChecked property defines whether the menu item is checked. Whenever the property pfChecked changes the event ChangeChecked will be raised.

HCheck

Apart from properties/methods and events which already had been described the HCheck object has one additional property and one more event: the pfValue property and the ChangeValue event. The pfValue is a read/write property and can be TRUE or FALSE depending on the status of the associated checkbox. Whenever the pfValue property changes the ChangeValue event will be raised.

HFrame

The HFrame object is used to describe a frame used to group several controls. All properties/methods and events are already described.

HDisp

The HDisp object has one additional property and one more event: the psMessage property and the ChangeMessage event. The psMessage property is the string which will be displayed in the display box. When this string changes the ChangeMessage event will be raised.

HEditString

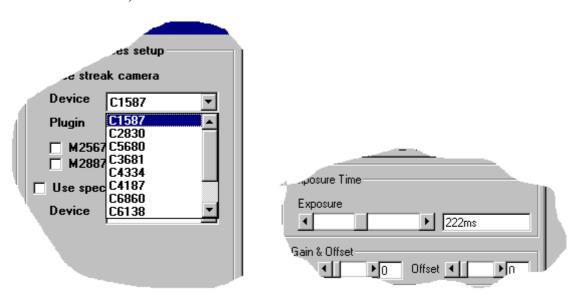
The HEditString object is used to enter a string value like file names or comments etc. It has the property psText describing the text which has been entered by the user. When this text changes the ChangeText event is raised.

HEditNumber

The HEditNumber is used to enter numbers. The number can have 4 different number types: integer (16bit), long (32bit), single (32bit) and double (64 bit). The number type is defined by the property piNumberType. There is a read/write property pvValue which returns the entered number. The data type of pvValue is Variant and can take any of the a.m. types. Suitable conversions are done with the characters the user is inputting. The property pvValue is limited by two values: pvMinValue and pvMaxValue. When the inputted number exceeds these limits an error is raised. When the limiting values are changed the event ChangeLimit is raised.

HEntry

The HEntry object represents a list of string entries. It can have two different "faces". It can consist of a combo-box or of slidebar in combination with a edit or display box (see screenshots below).

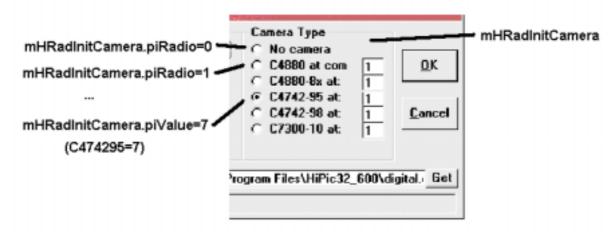


In the first case the Device can be selected out of a list represented by a combo-box, in the second case the Exposure time can be selected out of a list where the individual item can be selected with a slide bar or by entering the string into an edit box.

An important property is NoEntries which defines the number of entries in the list. The ChangeNoEntries event will be raised when the No of Entries changes. The currently selected string can be read or written by using the psKeyValue. Any Key value within the list can be read by using the psSetKeyValue(Index) property. The property piEntry can be used to set or get the index of the currently selected string item. Possible values for piEntry are in the range of [0 to NoEntries-1]. An additional string value which is associated to all entries is the psTag property (psSetTag(index) returns the psTag value of any index). This psTag property normally is used for internal purposes and should not be used by the client. The strings used in the list can have a special meaning. This meaning is defined in the property EntryType. There are 3 entry types: EntryTypeTime, EntryTypeString, EntryTypeNumber. If EntryType=EntryTypeString no special meaning is assigned to the string value. If EntryType=EntryTypeNumber the strings are representing numbers. If EntryType=EntryTypeTime the strings are representing time information. Normally they describe exposure times. If the property pfSearchNext is set to TRUE in combination with EntryType=EntryTypeNumber or EntryType=EntryTypeTime then the nearest value will be set. In the case of EntryType=EntryTypeTime the search algorithm additionally understands time information. In such cases 8050ms is smaller then 9s (the units m, s, ms, us, ns, ps can be used and are correctly detected).

HRadios

The HRadios object represents a group of radio buttons. The HRadios object is similar to the HEntry object except that Every radio button can be disabled or set visible individually. There are the properties pfRadioEnabled(Index) and pfRadioVisible(Index) to define whether an individual radiobutton is enabled or visible. The events ChangeRadioEnabled(iRadio) and ChangeRadioVisible(iRadio) are raised when the corresponding properties are changed. Every radiobutton can have an associated string value and a numeric value. These are the properties psKeyValue and the piValue. Any string and numerical values can be get by the psSetKeyValue(iRadio) and the piSetValue(iRadio). The property piRadio sets or gets the index of the selected radio button. Possible values are in the range of [0 to NoEntries-1]. The psKeyValue is used to label the individual radio buttons. Sometimes one needs to know the piRadio value from a given Value (psSetValue(Index)), therefore a function piRadioFromValue(iValue) is provided for convenience.

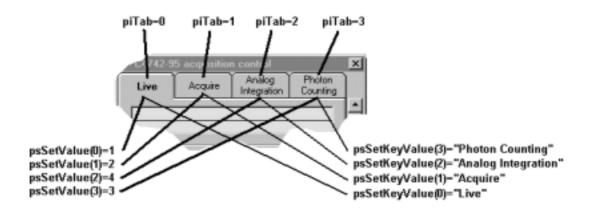


HTab

The HTab object is very similar to the HRadios object the usage of course is a little bit different. It is used when controls are arranged on a tabbed control.

In opposite to the HRadios object the properties containing information about the visibility or enabled status of a single tab are pfTabVisible(iTab) and pfTabEnabled(iTab). The respective events are ChangeTabVisible and ChangeTabEnabled. is a string value and a numerical value associated to each Tab (psKeyValue and piValue, additionally there are psSetKeyValue(iTab) and psSetValue(iTab)). The property piTab sets or gets the index of the selected Tab. Possible values are in the range of [0 to NoEntries-1]. Sometimes one needs to know the piTab value from a given Value (psSetValue(Index)), therefore a function piTabFromValue(iValue) is provided for convenience.

mHTabCamAcqMode



HSingleTab

Associated with every individual Tab on a Tab control is a HSingleTab object. This is made mainly to provide a chain of parent relationships up to the dialog window. The user normally doesn't need to access such HSingleTab object. All properties/methods and events used in this object are already described.

HProgress

The HProgress object is used to display the progress of an operation (lets say an exposure). It has two main property: the psMessage and the ftPercent. psMessage is the text which is displayed on the progress bar, ftPercent is the progress of the operation in percent. When the percent display changes the ChangePercent event will raised.

HWindow

There are two applications for a HWindow object:

- a) The first (and more important) is to represent a dialog window.
- b) The second is to represent a picture are located on a dialog.

Most of functions only refer to the case where the HWindow refers to a dialog. There is no other way to distinguish the two cases apart from the name. The name for a dialog always ends with the characters "dlg". As an example lets take the introduction screen (see the screenshot below). There are two HWindow objects: the pHWinInitDlg and the pHWinInitLogo. The pHWinInitDlg is the dialog window, the pHWinInitLogo is a picture box where the logo (intro-bitmap) is displayed. The following properties/methods or events does not refer to HWindow objects associated with a picturebox, do not use them in combination with such a type of window: BeforeWindowVisible, NowWindowVisible,psTag, piSetWindowPosition, ActivateWindow, KeyDownWindow, CloseWindow, pSetFocus, pClose, piClientAreaXOffset, piClientAreaYOffset, pfHideForm, pfUserIF, plHWndParentWindow.

The visibility of a picturebox type HWindow is same as for all other control it is defined by the flag pfVisible. The default for the property pfVisible is FALSE, so it must be set to visible explicitly.

The visibility of a dialog type HWindow is dependent on the properties pfVisible, pfUserIF and pfHideForm. This was already described in detail in the chapter "Showing and hiding dialogs". The following description will describe all properties/methods or events which are not jet described together with another object.

The pfWindowSizable property returns a value which defines whether the associated window is sizeable. The client program should not attempt to change the windows size if this property is FALSE.

Due to the borders and the window-caption the starting coordinates of the window and its client area are different. This difference is described by the properties piClientAreaXOffset and piClientAreaYOffset.

The plHWnd property returns the associated windows window handle. If there is no associated window this handle is zero. If you want to access the window by its window handle you first have to set the properties pfVisible and pfUserIF to TRUE, then the window will be created, the you can use the plHWnd property to get the Window handle. If the window is a picturebox type window you have to set the properties pfVisible and pfUserIF of the dialog window to TRUE.

Every dialog belongs to an object (the dialog shown below belongs to the HInitTa object for example). This object is the owner of this dialog and any access to the dialog must be passed to this object (To access the configuration file name you have to access the pHInitTa.pHEstInitConfiFile interface object). The property psOwnerName contains information about the owning object (In our case it would contain "HInitTa"). The HiPic/HPD-TA has a global option "Remember window positions". To realize this feature, every dialog has a property pfRestoreWindowPos which tells the dialog to save and restore its window position when it is opened or closed. Normally every main object (like the HC474295 object) also has such a property. If the property of a main object is set, this object sets the pfRestoreWindowPos property of all its dialogs (In the case of the HC474295 object this is the camera dialog and camera setup dialog) and of all other dependent objects (If you set the property pfRestoreWindowPos of the HAppHiPic object the properties of all dependent objects like the camera object etc. is set as well).

The plColor property sets or returns the color of the associated window.

Every dialog can be placed as a child window within another window. To do this the plHWndParentWindow property has to be set to the window handle of the of the parent window.

Notes:

- 1) Do not read or write the plHWndParentWindow for picturebox type windows. This feature is only intended for dialog windows.
- 2) The pcParent property does not return a correct HWindow reference if you use the plHWndParentWindow to place the dialog into another window. A dialog windows pcParent property always returns "Nothing".

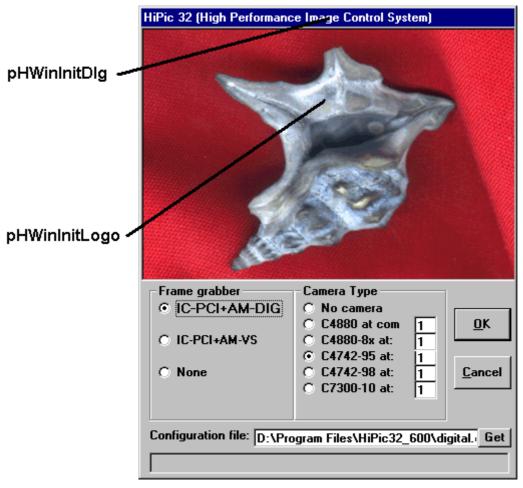
The psPicture property sets or returns the file name of a bitmap image which is displayed on this window. The following formats are supported: BMP, ICO, CUR, RLE, WMF, EMF, GIF, JPG.

The psTag property sets or returns the Tag property of this object. The Tag property is used to communicate with the associated window (internal use only). Do not write to this property. The piGetWindowPosition function can be used to get the current window position and window state. The coordinates returned by this function are always measured in pixels and its origin is the origin of the parent window (if no parent window is defined the screen is the origin). The piSetWindowPosition function can be used to set the current window position and window state. Do not change the window size for windows where the property pfWindowSizable is FALSE. Do not use this function for picturebox type windows. The pActivateMainWindow method can be used to activate the topmost window in the parent relationship. If a dialog window is set as a child window of another window with the plHwndParent property this parent (or its parent) window is activated. The pClose method closes the associated window.

The pSetFocus method sets the focus to the associated window. It works only if the associated window is visible on screen and is a dialog window.

Several events are raised from a HWindow object:

The ActivateWindow event is raised when the associated window is activated. The BeforeWindowVisible event which is raised before the associated Window is shown on the screen. This event can be used to access the window before it is visible, but after it has been created, the NowWindowVisible event is raised after the associated Window is shown on the screen. This event can be used to get an information about the moment when the window is really displayed. The CloseWindow event is raised when the associated window will be closed. It can be used to save data associated with this window. This KeyDownWindow is raised when a key event as sent to the window. The MouseDown, MouseMove and MouseUp events are raised when the respective mouse events are sent to the window. The ResizeWindow event is raised whenever the window is resized.



HLut

The HLut object is used to enter LUT values. It is placed on the LUT control dialog (see screenshot below) which belongs to the HLutControl object. The HLut object has the following properties/methods and events: The piLUTSize property returns the size of the LUT. Possible values are: LUTSize8, LutSize10, LutSize12, LUTSize16, LUTSize812, LUTSize14 and LUTSize16x which stands for 8, 10, 12, 14, 16, 16x (which stands for extended 16 bit) and 8/12 bit (8/12 is a LUT for layered superimposed images). The corresponding size of the LUT is 256, 1024, 4096, 16384, 32768, 32768 (with bit shift) and 4096. The plMinCursorDiff property returns the minimum difference between the upper and lower value (cursor). The HLut object always forces these values to have the specified minimum difference. The plLowerValue and plUpperValue properties define the lower and upper LUT values. The

pSetAuto method executes the Auto LUT function. There are several events which informs the client program about changes on the HLut object. The AutoLUT event is raised when the AutoLUT function is executed. Setting the Cancel parameter to TRUE can suppress the Auto LUT function. The LimitsChanged is raised when the piLUTSize property changes. The LowerCursorChanged event is raised when the property plLowerValue changes. The UpperCursorChanged event is raised when the property pUpperValue changes. The CursorsChanged event is raised when either of the properties plLowerValue or plUpperValue changes. The Resize event is raised when the LUT control is resized. In the case of LUTSize16x a bit shift is performed prior to LUT operation. The property plMult defines the multiplication factor related to this shift. Example: If the shift is 3 the multiplication factor is 8.

HLutControl.pHWinLUTContrDlg LUT Control 2157 3533 Intens:: 0 1000 2000 3000 4000

HLutControl.pHLutLUTContrControl

HImageArea

The HImageArea object describes the area where an image is displayed. First of all let us look on the numerical values describing the image:

The image has a size of iDX(width) x iDY (height) pixels and an offset of iX (horizontal offset) and iY (vertical offset). For the ease of handling a structure of type "are" contains these numbers. This area is called the source area of the image (areSource).

The first screenshot shows the full image. In our case the size is:

areSource.iX=0

areSource.iY=0

areSource.iDX=512

areSource.iDY=512

A part of the image is displayed on the screen (see the second screen shot). The part of the image which is displayed in the second image is marked in the first image as an ROI. The part of the image which should be displayed is described in the structure areImgToDisplay. In our case this area is:

areImgToDisplay.iX=69

areImgToDisplay.iY=160

areImgToDisplay.iDX=388

areImgToDisplay.iDY=463

The part which should be displayed is displayed on a picturebox with the size X x Y (see the area marked in red). The size of this area on screen is described in a structure pntPicImage. In our case pntPicImage is:

pntPicImage.X=388

pntPicImage.Y=463

The whole image including horizontal and vertical slide bars is displayed in an area pntWindow. In our case pntWindow is larger than pntPicImage due to the slidebars which require some space. pntPicImage.X is identical to areImgToDisplay.iDX and pntPicImage.Y

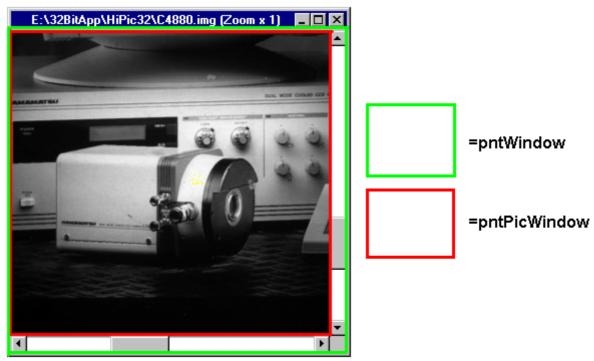
is identical to areImgToDisplay.iDY because the zoom factor is 1. If the zoom factor would be 2 pntPicImage.X would be 776 and pntPicImage.Y would be 962.

Now lets describe the properties you can get or set within the HImageArea object. The method pGetpntWindow returns the size of pntWindow. The method pGetpntPicWindow returns the size of pntPicWindow. The method pGetareImgToDisplay returns the size of areImgToDisplay (The size of the image areSource is a property of the HImage object). The pGetftpntCenter and pLetftpntCenter functions allow to get and define the zooming center point (The zooming center is the point where the user clicks with the mouse when zooming). The property pftZoom sets or gets the current zooming factor.

Additionally there are several functions related to an ROI. An ROI has a start and an end point and a type. There are three different types of ROI: Point, Line and Rectangle. The structure areROI describes the location of the ROI in image coordinates. There is a corresponding structure wndROI which describes the ROI in screen coordinates (relative to the origin of PicImage). The function pGetareROI and pLetareROI allow to get and set the ROI in image coordinates. The function pGetwndROI returns the screen coordinates which are related to the ROI. The piROIType property sets or returns the ROI Type. Possible values are defined in the enumeration ROIType. The property piPRFDirection sets or returns the quick profile direction. Possible values are HORINTEGRPROFILE and VERINTEGRPROFILE. The plHWndImageArea returns the window handle of the window where the image is displayed (marked in red in the screenshot below). The method pEnlargeROI enlarges the ROI in the specified direction. Possible values are defined in the enumeration EnlargeDirection

The ChangeCenter event is raised when the center position changes. The ChangeZoom event is raised when the Zoning factor changes (The meaning of ChangeEnabled and ChangeVisible is identical to those of previous objects).

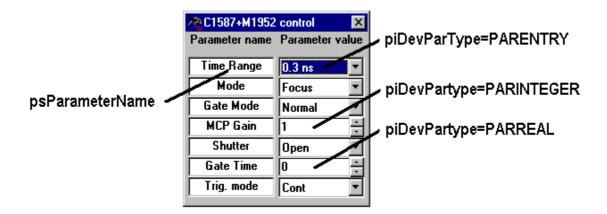




HDevPar

The HDevPar object describes a parameter of an external device. This objects are only used in combination with the HPD-TA. The HDevPar object is similar to a HEntryNumber type but it has some more properties. The HDevPar object communicates with the HPDTA32.DLL which provides access to all external devices. Exchange of parameter values is always done by one floating point number (double type). Every parameter is identified by a constant, the iParameter value. The parameters are arranged on the status/control box from top to down with an index iControl starting from 0. There are different types of Parameters: Entry, Integer and Real. An entry type parameter consists of a list of strings (like the HEntry object), an integer type can have only integer values and a real type parameter can have any real type value. The range of values is limited by a lower and upper limit (like with the HEditNumber entry) and eventually there is a step width defining the interval between two possible values. For any numeric type of parameters (no entry types) the value can be visualized using an exponent. The value of the parameter is then "value displayed in the edit box" * 10 exponent. This exponent can be set or inquired with the piExponent property. In the case of an entry type parameter the parameter value is used to index the string within the list. The entries are numbered starting from 1. There are different modes of a parameter depending whether the parameter value can be inquired or controlled or both.

The following is a description of the individual properties/methods and events: The piDevParType property returns the ParameterType of the parameter. Possible values are described in the enumeration DevParType. The piMode property returns a value which defines the ParameterMode of the parameter. Possible values are described in the enumeration DevParMode. The piMode property is dependent on the two properties pfControlAvailable and pfStatusAvailable which describe whether the parameter can be inquired or controlled. Do not mix up the pfControlAvailable property which refers to the hardware with the pfControlAvail property which exists for every interface object and tells the client programmer that the interface object is currently available because it is visible and enabled etc. The piParameter returns a value identifying the parameter. Possible values of known parameters are described in the enumeration StreakParameter, SpectrographParameter and DelayParameter. The psParameterName property returns the parameter name. The pvValue propery returns the value of the parameter. For entry type parameter pvValue propery is the index within the list (starting from 1). Possible values pvValue are in the range between pvMinValue and pvMaxValue. The property pdbStep returns a value which defines the step width of two neighboring values. If it is zero all values between pvMinValue and pvMaxValue are possible. The property psKeyValue specifies the parameter value in string format. For entry type parameters the property psSetKeyValue(Index) can be used to get an individual entry out of the list.



Using the main objects in HiPic and HPD-TA

This part of the documentation explains how to use the main objects in the HiPic/HPD-TA. Every main object has one or more dialog for the communication with the user. Every dialog contains interface objects for the communication with the user. As these interface objects already have been described in detail in the previous chapter they will not be described here. This chapter will only describe properties/methods and events not related to the interface objects. Basically these features will give the client programmer extended possibilities compared to the user of the standalone program.

Startup (HInitHi and HInitTa)

The only object which can be created by a client program is the start object (HInitHi for the HiPic and HInitTa for the HPD-TA). The start is done in two steps: Showing the Intro screen and starting the program.

In detail the following things have to be done:

1) Creating an instance of HInitHi or HInitTa

The HInitHi or HInitTa has a multi use property, this means that several instances of the object can be created within the same instance of the component. By using this feature one can get access to an instance of the HiPic which is already running. The property piStartStatus gives information about the status of the program. There are three possibilities:

piStartStatus=StartStatusNone The program is not running

piStartStatus=StartStatusInit The program shows the Init dialog piStartStatus=StartStatusRunning The program has been started

If piStartStatus=StartStatusNone the Init dialog can be showed by calling the piInit method. If piStartStatus=StartStatusInit the property pStartHInitHi or pStartHInitTa returns a reference to the HInitHi or HInitTa object which currently shows the Init dialog. Executing the pHComOK.pClick method will start the program.

If piStartStatus=StartStatusRunning the property pStartHAppHiPic or pStartHAppHPDTA returns a reference to the already existing Application object.

2) Showing the Init dialog

The piInit method is used to show the Init dialog and has the following parameters: Public Function piInit(ByVal sIniFile As String, ByVal fInitUserIF As Integer, ByVal fApplUserIF As Integer, ByVal fNoDialogs As Integer) As Integer

The sIniFile parameter specifies the *.INI file which should be used for this session. The fInitUserIF defines whether the Init dialog should be started with or without UserIF. The fApplUserIF defines whether the whole application should be started with or without UserIF (This is more convenient then setting all pfUserIF properties of all dialogs manually). The fNoDialogs defines whether the program should suppress message boxes.

3.) Starting the program

Executing the pHComOK.pClick method of the HInitHi or HInitTa object will start the program. The client program has to wait until pfInitStatus>=0. If pfInitStatus=InitStatusInitialized the pHAppHiPic or pHAppHPDTA property will contain a reference to the application. If pfInitStatus>0 the creation of the Application has been failed due to some reason and the program has to end.

Apart from these properties the HInitHi or HInitTa object contain other information about the application. The piApplicationType property returns the application type. Possible values are defined in the enumeration ApplicationType. The psAppDate property returns the applications date. The psAppTitle and the psAppTitleLong properties return a short and a long version of the title. The psIniFile returns the *.ini file name. The psSoftwareVersion property returns the software version. The pGetLicenceKeys method returns information about all license keys which could be found. There are several events which are raised during startup informing the client program about details of the startup. These are: ApplicationCreated, ErrorDueToLicence, ErrorDuringInit, InitCancel, NoUserIFAllowed, MsgBoxResult and Message. The MsgBox event is similar to those raised by the HMsgBox object. It is however not possible to get a reference to the HMsgBox object during a certain period startup.

The application object (HAppHiPic and HAppHPDTA)

Shutdown

Before we talk about how to use the application object we should explain how to end the program properly.

The piEndProg method is used to shutdown the application. Before you use this method you should free all object references (except the reference to the main application object of course). After this you should free the reference to the application object.

As there is a possibility that the user or another client shuts down the application you should free all object references all well. Otherwise the component cannot shutdown correctly and will remain in the computers memory.

To be sure that you will be informed about the shutdown create a WithEvents object reference to the main dialogs HWindow object and release all object references in the Close event of this object like in the following code:

```
Private WithEvents mHWinMainDlg As HWindow
Private Sub mHWinMainDlg_CloseWindow(Cancel As Integer, ByVal Mode As Integer)
'Free all object references here!
End Sub
```

Usage of the application object

Besides the interface objects the application objects returns object references to other main objects used in the HiPic or HPD-TA (See the chapter object model and main objects for details). Again beside these references the application object contains the following properties/methods and events:

The piCameraTyp, piFrameGrabber, psConfigFile and piAcquisitionModule properties return information about the camera and the frame grabber. The piApplicationType, psAppDate, psApplicationString, psAppTitle, psAppTitleLong, psSoftwareVersion properties returns

information about the application. The piOperatingSystem property return the operating system. The psApplicationDirectory property returns the application directory. The psWindowsDirectory property returns Windows directory where the component is running. The psGetStatus function returns the status of the application object. The psErrorString returns a comprehensive explanation of an error code returned by a function call.

The HImages and the HImage object

The HImages, HImage and the HImage area object are working together closely and they can be regarded as one unit. The HImages object is the topmost object of these objects in the object model.

The HImages object

The HImages objects is owning the ROI I/F and the options dialog, every HImage object owns one image display dialog window. Access to the individual HImage objects is done by the HImages.pcItem(Index) property. The pcItemCurrent property returns the currently selected HImage object. The piCurrentImageValid property tells the client whether there is any valid active image. Access to all Image-Dialog and Image-Picture (the area where the image is displayed) windows is possible through the pHWinImgDlg20Array and pHWinImgPicture20Array objects. Management of image numbers is also done within the HImage object. Special image numbers have special meaning. There is piIndexAcquireImg, piIndexCurrentImg, piIndexLiveImg, piIndexLoadImg, piIndexSequenceImg, piIndexAcqImg (see the object catalog for details of these index numbers). The HImages objects contains functions for loading and saving images with or without file dialog and with or without asynchronous execution. The available functions and properties related to file/save are: pfSaveImage, pfLoadImage (ordinary save/load)

 $pA sync Save Image\ pA sync Load Image\ (a synchronous\ save/load)$

pfLoadImageNoShow (load without show)

piGetLoadImageFile, piGetSaveImageFile (Opens file dialog to get file names) piDefaultImageType, pfDisplayToTIFFMode, piSeqMode, psDefaultScalingDirectory, (special properties)

The pPrint methods prints an image. The pChangeActiveImage changes the active image. There are several events which are raised to inform the client about specific situations. These events are: CloseSequenceImage, CurrentImageChanged, FileNameChanged, ImageDataChanged, ImagePainted, Message and RemoveImage.

The HImage object

All properties of the HImage object are referring only to the specified image. There are some methods which exist for both HImages and HImage object. If you use the methods of the HImage object you can make sure that it is applied on this individual image. The methods which are similar for the HImage and HImage object are: pAsyncLoadImage, pAsyncSaveImage, pPrint, pfSaveImage, pfLoadImage. Access to the HImageArea object and the involved windows is possible by the pHImaImgArea, pHWinImgDlg and pHWinImgPicture properties.

There are several properties and methods describing the image, these are: piBytesPerPixel, pGetareSource, piReside, piDataType, psFileName, pfImageValid. Most important properties are piBytesPerPixel, pGetareSource which describes the size of the image.

Concerning storage and data access the following properties and methods are available: pfDataSaved, plDataBytes, plDataHandle, plDisplayBytes, plDisplayHandle, pfDumpDataToFile, pfGetPointIntensity, pfSetPointIntensity.

To get image data the functions pfGetDisplayData, pfGetImageData1Byte, pfGetImageData2Byte and pfGetImageData4Byte can be used.

To set image data the functions pfSetImageData1Byte, pfSetImageData2Byte and pfSetImageData4Byte can be used. After changing image data, the image size or the status the function pfUpdateImageAfterDataChange should be used.

Concerning display the following functions are available: pfDisplayOnVGA, pDisplayImage, pShowImage, pfCreateEmptyImage. The functions pDisplayImage, pShowImage are not needed normally. pDisplayImage can be used to display an image when its content has been changed. The property pfDisplayDataValid has to be set to FALSE first otherwise the display function does not recalculate the display data.

The function pfMemGetPRFData can be used to extract a profile out of the image. The piGetMaxBit returns the topmost bit set in the image.

For inquiry and setting of status information the follow functions can be used: psStatus, psStatusGetSection, psStatusGetString, pStatusWriteSection, pStatusWriteString. To get or set scaling data the client can use the functions of the object pisdImage (see the describition about the HImageScalingData object):

The properties piMaxScalingX, pGetScalingXInfo, pGetScalingYInfo, pSetScaling, psGetPointScaling, psGetPointScalingXY, psGetWidthScaling ar kept for compatibility with older version and can alternatively be used to get or set scaling properties.

The HExternalDevices and the HExternalDevice object

The HExternalDevices object

The HExternalDevices object contains six dialogs:

- The Auto Delay dialog (pHWinAutoDelDlg)
- The device control options dialog (pHWinOptionsDlg)
- The pressing dialog (pHWinProcDlg)
- The device control setup (pHWinSetupDlg)
- The trigger timing diagram (pHWinTimingDlg)
- The trigger setup dialog (HWinTrigSetDlg)

Apart from various I/F objects there are several properties indication the external devices setup, external devices options and trigger setup condition:

Read only property	pfDualTimeBaseE	Integer	Returns a flag which indicates whether a dual time base extender is used as a streak camera option
	xist()		extender is used as a streak camera option
Read only property	pfStreakUseDTBE	Integer	Tells the camera object that a Dual time base extender is
	()		currently used for trigger handshake
Read only property	piA6538Connected	Integer	Returns a flag which defines whether an A6538 is
	()		connected to the trigger status adapter
Read only property	piCounterBoardIns	Integer	Returns a flag which defines whether a Dt2819 board is
	talled()		installed
Read only property	piCounterBoardIO	Integer	Returns the DT2819 board IO base adress
	Base()		
Read only property	piGPIBInstalled()	Integer	Returns a flag which defines whether a GP-IB board is
			installed in the system
Read only property	piGPIBIOBase()	Integer	Returns the GP-IB board IO base address
Read only property	piPostTriggerTime	Integer	Returns the Post Trigger Time
	()		
Read only property	piStreakTriggerMe	Integer	Returns the currently selected streak trigger method
	thod()		
Read only property	piTDStatusCableC	Integer	Returns a flag which defines whether a status cable is

	onnected()		connected to the streak camera
Read only property	plTriggerDelay()	Long	Returns the trigger delay
Read/write property	pfAutoMCP()	Integer	Returns a flag which defines whether Auto MCP is
			active
Read/write property	pfAutoStreakShutt	Integer	Returns a flag which defines whether Auto Streak
	er()		Shutter is active
Read/write property	pfDoStatusRegular	Integer	Sets or returns a flag which defines whether the status
	ly()		should inquired regularly (Typically once per second)

The properties pfAutoMCP and pfAutoStreakShutter returns information about the AutoMCP and AutoDelay device control option. If the property pfDoStatusRegularly is TRUE the HPD-TA inquires the status from the external devices regularly. If it is FALSE the client programmer can update the status by using the pDoGetStatus method.

There are several properties which are declared as public due to internal reasons but which should not be used by the client programmer. They start with an r (even though they are public) and are: rfIsDualTimeBaseExtender, rTA_IdentOptionName, rTA_IdentOptionNo, rTA_IdentParEntryName, rTA_IdentParEntryNo, rTA_IdentPluginName,

rTA_IdentPluginNo, rTA_Setup, rTA_SetupDevice, rTA_SetupOption, rTA_SetupPlugin, rGetDeviceList, rGetDualTimeBaseInfo, rTA_SetupCloseSession.

The pcItem(Index) property returns a reference to an individual HExternalDevice object. Index can be in the range piMinIndex and piMaxIndex. Possible values for Index are defined in the enumeration DeviceType.

Several events are raised to inform the client about changements with the external devices. These are DevicesBuilt, TASetupExecuted and Message.

The pEmergencyOff method can be used to switch off the streak cameras MCP, close the shutter and set the spectrographs slitwidth to zero (if available).

The pShowDialogs shows all external devices dialogs.

There is a set of functions where the client programmer can directly access GP-IB devices. In the case a device driver is provided by the HPDTA it is better and more easy to use the HExternalDevice object for communication to the device. In the case of a special or user provided device the client programmer can access these devices directly. The programmer should first check whether the HPD-TA has already got a handle to the GP-IB board. If this is not the case he can open a GP-IB session by himself. These are the corresponding functions:

Function	plIEEE488_AttachDevi	Long	Low Level IEEE 488 function: Attaches a device
	ce(ByVal iBoardNo As		
	Long, ByVal		
	iIEEE488Address As		
	Long, ByVal		
	lpszOutEOS As String,		
	ByVal lpszInEOS As		
	String, ByVal		
	fDeviceIsSlow As		
	Long, ByVal uiTimeout		
	As Long)		
Function	plIEEE488_Close(ByV	Long	Low Level IEEE 488 function: Closes the GP-IB session
	al iBoardNo As Long)		
Function	plIEEE488_DetachDevi	Long	Low Level IEEE 488 function: Detaches a device
	ce(ByVal		
	lDeviceHandle As		
	Long)		
Function	plIEEE488_IsSRQPend	Long	Low Level IEEE 488 function: Inquires pending SRQs
	ing(ByVal iBoardNo		
	As Long)		
Function	plIEEE488_Open(ByV	Long	Low Level IEEE 488 function: Opens a GP-IB session
	al iIOAddress As Long,		
	ByVal		
	iMyIEEE488Address		
	As Long, ByVal		
	fController As Long)		
Function	plIEEE488_ParallelPoll	Long	Low Level IEEE 488 function: Executes a parallel poll

	(ByVal lDeviceHandle As Long, ByVal		
	lpszPollStatus As		
	String)		
Function	plIEEE488_ReadBinary	Byte, ByVal	Low Level IEEE 488 function: Reads GP-IB data binary
	(ByVal lDeviceHandle	iCount As	
	As Long, bByte()	Long) As	
		Long	
Function	plIEEE488_ReadString	Long	Low Level IEEE 488 function: Reads GP-IB data as string
	(ByVal lDeviceHandle		
	As Long, lpszString As		
	String, ByVal iCount		
	As Long)		
Function	plIEEE488_SendBinary	Long	Low Level IEEE 488 function: Sends GB-IB data binary
	(ByVal lDeviceHandle		
	As Long, lpData As		
	Byte, ByVal iCount As		
	Long, ByVal fEOI As		
	Long)		
Function	plIEEE488_SendString(Long	Low Level IEEE 488 function: Sends GB-IB data as string
	ByVal lDeviceHandle		
	As Long, ByVal		
	lpszString As String)		
Function	plIEEE488_SerialPoll(Long	Low Level IEEE 488 function: Executes serial poll
	ByVal lDeviceHandle		
	As Long, ByVal		
	lpszPollStatus As		
	String)		
Function	plIEEE488_SetGotoLo	Long	Low Level IEEE 488 function: Sends Goto Local command
	cal(ByVal		
	lDeviceHandle As		
	Long)		
Function	plIEEE488_SetRemote	Long	Low Level IEEE 488 function: Sends Set remote enable command
	Enable(ByVal		
	iBoardNo As Long)		
Function	plIEEE488_TA_IdentG	Long	Returns the board handle in the case the HPDTA has already opened a
	PIBBoard()		GB-IB session
Sub	pTA_HandleSRQs()		Gives the device DLLs the opportunity to handle SRQs (if any)

The HExternalDevice object

The HExternalDevice object has several properties indicating the current device condition. The properties psDeviceName and psPluginName return the devices and its plugin name. The psDevType property returns a string describing the device type. The properties piNoOfOptions, piOptionInstalled(index) and psOptionName(index). Index can be in the range of 0 to piNoOfOptions-1.

The properties pfControlAvaileable and pfStatusAvaileable tells the client whether control and status information is available for the device (Every parameter has an individual pfControlAvaileable and pfStatusAvaileable property as well).

The properties pfStatusOutExist and pfTriggerConnectorExist refer only to streak cameras and gives an information about the status out port and the cabling of the streak trigger connectors for a single shot configuration (All these informations have to be specified in the device control setup first of course).

The pHWinDevDlg returns access to the device status/control dialog window. The piGPIBCableConnected and piGPIBBase properties returns information whether the device is connected by GP-IB and to which base address. The piUseDevice property informs the client whether the device is used at all, the piDeviceIndex and piPluginIndex returns the entry numbers in the device and plugin list provided by the HPDTA32.DLL.

The HDevPars property returns a reference to an array containing all parameters of this device. The piNoOfControl property informs the user about the number of controls arranged on the devices status/control box.

Though all parameters can be inquired and controlled by the HDevPars object some additional functions are provided for convenience. These are

pfGetParameter, pfGetParameterByString, pfParameter2Control, pfParameterName2Control, pfSetParameter, pfSetParameterByString, pfSetParameterToMaximum, pfSetParameterToMinimum.

To understand the differences of these functions it is useful to know that iParameter is referring to an integer constant associated with the parameter (like TimeRange=3), iControl is the index how the Parameters are arranged on the status control box (the topmost parameter has iControl=0 etc.) and the postfix ByString always refers to the parameter or value name as a string (like "Time Range" for the parameter name or "1 ns" for the parameter value). Whenever the device controls setup is done all object references of the streak parameters are rebuilt. Therefore the client has to release the object references to these objects. The moment when this has to be done is indicated by the ReleaseParameters event.

HLUTControl

The HLUTControl object has two dialogs: the LUT Control dialog (pHWinLUTContrDlg) and the LUT Parameters dialog (pHWinLUTParDlg). Apart from the interface objects there is a function psGetStatus which returns the current LUT status.

HSystemScaling

The HSystemScaling object has five dialogs: the scaling setup dialog (pHWinScalSetDlg), the scaling editor dialog (pHWinScalEditDlg), the create polynomial dialog (pHWinCreaPolyDlg), the time scaling dialog (pHWinTimScalDlg, HPD-TA only) and the spectrograph scaling dialog (pHWinSpecScalDlg, HPD-TA only). The pssdSystem object can be used to get or set system scaling properties (see the description of the HSystemScalingData object).

HProfileScalingData, HImageScalingData, HSytemScalingData and HPRFParametersData

There are three locations where scaling data is active: System Scaling, Image Scaling and Profile scaling.

The current version does not jet allow to access profiles by automation (which may be possible with future versions). System and image scaling data, however, can be accessed by automation. The system and image scaling objects consits of two other objects: one HProfileScalingData object for each coordinate (X and Y). To understand how to access profile scaling the HProfileScalingData is most important.

HProfileScalingData

Internally the profile scaling can be of the type linear or table. The HProfileScalingData object contains functions and properties which refers directly to this type. There are, however, functions which hide this fact to the user and are therefore more convenient to use. Additionally there are functions to set different types of scaling.

The basic functions to get scaling are:

Read only property	psUnit()	String	Returns the unit
Read only property	pftValue(iEntry As	Single	Returns the value of a given index
	Integer, Optional		
	sError As Variant)		
Function	pfGetArrayOfValues(f	Single,	Returns an array of values
	tArray()	ByVal	
	- T	iEntries As	
		Integer,	

		Optional	
		sError As	
		Variant) As	
		Integer	
Function	pfValueExist(iEntry	Integer	Returns a flag whether or not the value at the specified location exist
	As Integer)		
Function	piMaxEntries()	Integer	Returns the maximum number of entries

Functions to get a pixel index as a function of the scaled value

Function	pftProfileLocationFT(f	Single	Returns the profile location (floating point)
	Scaled As Integer, ft		
	As Single)		
Sub	pLocationToIndex(ftL		Returns the index corresponding to the given location
	ocation As Single,		
	ftIndex As Single,		
	fDisplayScaled As		
	Integer)		

Functions so set scaling

Functions so			Fa
Function	pfSetLinearData(ftSca le As Single, sUnit As String, Optional sError As Variant)	Integer	Sets linear scaling
Function	pfSetTableData(ftTable()	Single, iEntries As Integer, sUnit As String, Optional sError As Variant, Optional varCheckFro mChannel As Variant) As Integer	Sets table scaling
Function	pfCreateDiffPoynomia l(iOrder As Integer, ftCoeff()	Single, iNrValidCha nnels As Integer, sUnit As String, Optional sError As Variant) As Integer	Create differential polynomial
Function	pfCreateIntegPoynomi al(iOrder As Integer, ftCoeff()	Single, iNrValidCha nnels As Integer, sUnit As String, Optional sError As Variant) As Integer	Create integral polynomial
Function	pfReadScalingTable(s FileName As String, sOffset As String, fCheck As Integer, sUnit As String, Optional sError As Variant, Optional varCheckFromChanne 1 As Variant)	Integer	Reads a scaling table from file
Function	pfSetScaling(psd As HProfileScalingData, Optional sError As Variant)		Sets the scaling data of this object identical to the data of the specified object
Function	pSaveScalingFile(sFil e As String, Optional sError As Variant)	Integer	Saves the scaling data to file

Internal or old type functions (only needed in special cases)

Read only property	pftScale()	Single	Returns the scaling factor
Read only property	piType()	Integer	Returns the type (linear/table)
Read only property	psOrigin()	String	Returns the scaling origin
Read only property	psScalingFile()	String	Returns the scaling file name
Function	gfCheckSwapScaling(Integer	Swaps the scaling and profile data in case the scaling is descending
)		
Function	psScalingInfo()	String	Returns general scaling info
Sub	pGetMinAndMax(iLo		gets minimum and maximum value
	wer As Integer, iUpper		
	As Integer, ftMin As		
	Single, ftMax As		
	Single)		

HSequence and HJitter

The HSequence objects has two dialogs: the sequence dialog (pHWinSeqDlg) and the options dialog (pHWinOptDlg).

The pfSequenceIsInRAM property informs the client whether the sequence is loaded to RAM. There are several events informing the client about specific situations: EndSequence, ErrorEndSequence, Message, SeqSingleAcqEnded, StartSequence. The StartSequence and EndSequence events can be used to set some parameters at the start and end position of a sequence (like opening a shutter or switching on microscope illumination). In case of an error the ErrorEndSequence event will come instead. The SeqSingleAcqEnded event can be used to execute some code after an individual acquisition has been ended. It is the client programmers responsability not to take too long time within such code otherwise the acquisition will be delayed. The StartStreakTrigger is an event which has been introduced intermediately to make a specific sequence in combination with streak triggering possible. It will be removed as soon as the standard program is able to handle this sequence. Similar to the images object there are some functions for saving, loading, starting and correcting sequences. These are: pAsyncLoadSequence, pAsyncSaveSequence, pCorrectSequence, pLoadSequence, pRemoveSequence, pSaveSequence, pAsyncSeqStartAcquisition.

The HJitter object is not public, it is operated from a user I/F on the HSequence dialog so every interface object can be found in the HSequence object.

The Camera objects (HC4880, HC488080, HACam, HC474295, HC474298, HC7300, HC800010, HC800020, HFlatPanel)

Every camera object has at least two dialogs: the camera dialog (pHWinCamDlg) and the setup dialog (pHWinSetupDlg). Some cameras also have a subarray dialog like the HC4880 object (pHWinSubDlg). All camera dialogs are designed in a very similar way. According to the 4 acquisition modes (Live, Acquire, AnalogIntegration and PhotonCounting) the controls of every acquisition mode are located on an individual Tab of a tab control (pHTabCamAcqMode). To access an interface object one has to select the correct tab first. As the same interface object can appear on all or several tabs the interface objects are grouped as a so called 4Array. As an example we take the exposure time entry object (pHEn4CamExposure). Access to the individual item is done by the pcItem(Index) property where index stands for the acquisition mode. To access the exposure time of live mode we simple can write pHEn4CamExposure.pcItem(Live).psKeyValue="20ms". There are interface objects with the same name on the camera dialog of different cameras (like the Live pushbutton array pHCo4CamLive). Therefore we can use a general function to access the

camera pHobjCamera to access the same control of any camera (like pHobjCamera.pHEn4CamExposure.pcItem(Live).psKeyValue="20ms"). Apart from the interface objects there are some functions and properties common to all camera objects. These are:

PiDatTypeForLive, piDatTypeForAcquire, piDatTypeForAI and piDatTypeForPC which returns the data types in the different acquisition modes: The property psCameraName returns the camera name. The psGetStatus property returns the current camera status. The method pStopAcquisition can be used to stop the currently running acquisition.

The HAcq object

The HAcq object is used to acquire images from any camera. It interacts very closely with the camera objects. The camera object is always the master object whereas the HAcq object has a possibility to interact with the camera object in a very restricted way by so called callback functions. The sequence object can also be the master of the HAcq object (These informations are only given for a general understanding of the program, they are not necessary to operate the HiPic/HPDTA component).

The HAcq object is the owner of the following dialogs: pHWinBackDlg(backsub dialog, used to indicate a backsub correction under progress), pHWinCorrDlg (correction dialog), pHWinCurvcorrDlg (curvature correction dialog), pHWinOptDlg (options dialog).

There are several read-only properties to inform the client programmer about the status of the

There are several read-only properties to inform the client programmer about the status of the object. These are: pfAcqPending (an acquisition is currently pending), pfGrbIs4MType (the grabber is a 4 MB type), pfProcPending (a processing operation is pending), pfProcStopped (the processing operation has been stopped), pftDefaultExposureTime (the default exposure time), piAmMod (the acquisition module).

Some properties have read/write attribute. These are pfDisableAutoAction, pfDisableAutoInquiry, pfRestoreWindowPos, pfUserIF. pfDisableAutoAction disables the AutoAction (like auto-shutter or Auto-MCP) before an acquisition (HPD-TA only). If pfDisableAutoInquiry is active the program does not prompt the user before auto actions. These two properties are used by the sequence mode, so be careful if you want to use them together with sequence mode.

There are several functions in combination with acquisition processes: pAsyncLive, pAsyncAcquire, pAsyncAnalogIntegration, pAsyncPhotonCounting and pStopAcquisition. The client programmer does not need these functions, he can use the interface objects on the camera dialogs to initiate the same acquisition processes.

Several events can be used by the client programmer to be informed about actions happening within the object. These are: CameraTemperature, ChangeAcqMode, EndAcquisition, EndBacksub, Message, SeqSingleAcqEnded, StartAcquisition, StartBacksub. StartAcquisition and EndAcquisition indicates the starting and ending of an acquisition. StartBacksub and EndBacksub indicates the starting and ending of a backsub acquisition. Don't use SeqSingleAcqEnded of this object, use the same event which is raised from the HSequence object instead.

Utility objects (HLicence, HAsyncCommand, HMsgBox, HError)

There are some small utility objects which can be useful from time to time. The HLicence object provides information about the licenses which are contained in the connected dongle (Use of the HiPic/HPDTA remote component without any license is impossible). The function pfGetCustomKey returns an information whether a custom made key is located on the dongle (special customers only).

The HAsyncCommand manages asynchronous commands. These are commands which returns control to the client program immediately but the execution of this command starts only in this moment. By using some properties of the HAsyncCommand the client programmer can get information about whether and what asynchronous command is currently running.

The HMsgBox object manages the output of message boxes. Under certain circumstances the program should not output message boxes. In such cases the text to be outputted will be contained in an event raised by the HMsgBox object.

The HError object handles error trapping and should not be used by the client program.

Synchronous and asynchronous commands

As long as a method is executed the client program cannot continue. If the method takes very long time there will be a timeout and the client will show ugly and not easy to understand messages. Most commands, however, are executed within short time and no problem occurs. Some methods, however, take a long (like long integration) or even undetermined time (like the LIVE mode) which result in such timeout. Also outputting message boxes lead to asituation that the component does not return to the client program for an undefined time (if the user does not respond). For such cases the HAsyncCommand object provides the means of starting commands in an asynchronous way. Once the method has been invoked the command starts but it returns control to the client program immediately. The real executing code starts after this moment (it is executed in a timer event started within the AsyncCommand). The event BeforeCommand will be raised before the asynchronous command has been executed, the event AfterCommand will be raised after the command has been executed. The command itself is triggered by the DoCommand event. Note: Don't use this event within the client program because you cannot know whether you will get this event before or after the execution of the command. The pfAsyncCommandActive property informs the client programmer that an asynchronous command is active, the psActiveAsyncCommand property tells which one. While an asynchronous command is active any normal command can be executed, but you cannot start a second asynchronous command. Asynchronous commands are:

- HAcq.pAsyncLive, HAcq.pAsyncAcquire, HAcq.pAsyncAnalogIntegration, HAcq.pAsyncPhotonCounting (These commands are executed from the corresponding Menu or Pushbutton objects on the main dialog, like pHComMainLive).
- HSequence.pAsyncSaveSequence, HImages.pAsyncSaveImage.
- HImage.pAsyncLoadImage and HImage.pAsyncSaveImage (The HImages.pAsyncLoadImage and HImages.pAsyncSaveImage methods are using these methods).
- HImages.pAsyncLoadImage and HImages.pAsyncSaveImage.
- The save and load Menu or Pushbutton objects on the main dialog are using the HSequence.pAsyncSaveSequence, HImages.pAsyncSaveImage or HImages.pAsyncLoadImage and HImages.pAsyncSaveImage methods.
- HInitHi.pAsyncStartProg and HInitTa.pAsyncStartProg (The pHComInitOK uses this method).
- The "Start Acquisition" pushbutton uses the HSequence.pAsyncSeqStartAcquisition function.

The string sCommand contains the name of the calling command. The following is a list of all AsyncCommands and their names (normally objects name and function name):

Function	sCommand		
pAsyncLive	HAcq_mLive		
PAsyncAcquire	HAcq_mAcquire		
PasyncAnalogIntegrat	HAcq_mAnalogIntegration		
ion			
PAsyncPhotonCounting	HAcq_mPhotonCounting		
pAsyncLoadImage	"HImages" + Format\$(Index) + "pAsyncLoadImage"		
pAsyncSaveImage	"HImages" + Format\$(Index) + "pAsyncSaveImage"		
pAsyncSaveSequence	HSequence_pSaveSequence		
pAsyncLoadSequence	HSequence_pLoadSequence		
pAsyncStartProg	HInitTa_mStartProg or HInitHi_mStartProg		
mAsyncLoadImageOrSeq	HApplication_mLoadImageOrSeq		
PasyncSeqStartAcquis ition	HSequence_pAsyncSeqStartAcquisition		

The HAsyncCommand returns control to the client program, however, it normally needs all or almost all of the processor time. You should keep in mind that only one part can run at a time: either the client program or the component. During an AsyncCommand normally three different things happens within the component:

- 1) Execution of the normal code of this command
- 2) Raising events
- 3) DoEvents to handle other events

If the client program executes another event like clicking on a pushbutton (e.g. Auto LUT or freeze) this can be done only when the component executes DoEvents. As long as the client event remains in this event execution of the components code does not proceed. This mean that you should not stay for a long time in such events. Also you should not execute a program path which waits for some event (Even calling DoEvents is not useful in such case). So the general rule for acting while an dAsyncCommand is running is: Start the AsyncCommand, Exit the function, then react on events, but do not wait in any loop. If you want to wait for some condition you can use a timer which should do nothing than checking the condition and exit again.

In most cases (like starting the LIVE mode) it is sufficient to start the AsyncCommand (like mobjHCamera.pHCo4CamLive.pcItem(1).pClick) exit the function immediately and stop the function with another command (call mobjHCamera.pHCo4CamFreeze.pcItem(1).pClick from your own pushbutton).

Message boxes

There are some cases where it is not useful or not possible to output message boxes. These cases are:

- 1) No user is sitting in front of the computer. The is the case if a component runs on a remote computer which is controlled by another computer.
- 2) An ordinary component function is called. If the user does not react on the message box the component function does not return to the client program which will after some time output a timeout message saying that the component request could not be finished. (This effect is quite common if you use standard Microsoft programs like Excel. In our case, however we do not like such messages because normally the client program want to hide the fact that another program is running at all).

According to the pfNoDialogs property of the MsgBox object component outputs Message boxes of not. If no message box is outputted the HMsgBox raises an event instead (MsgBox).

If the client program wants to output a message box inside this MsgBox-Event it should distinguish whether the event has been raised due to an action of the component (either issued by the components user I/F or by an asyncronous command, in this case it is allowed to wait inifinitely) or by an action of the client program (For this purpose the samples uses the pfClientEvent property internally).

Configuring a remote COM-client and COM-server environment

This chapter is a summary report about the attempt to setup HPD-TA V.6.0 as a remote server (written in Visual Basic 6.0) application using different remote client applications written in Visual C++ 6.0 and Visual Basic 6.0.

The operating system platforms used for the server application were Win98, WindowsNT4 and Windows2000.

We also tried Window95 as server platform. In this case we found that COM communication basically worked, however we found that in case the Visual Basic server component was created using the option "WithEvents" we got the error message "COM automation error". Up to now we couldn't find a solution for this problem.

Target operating system platform issues

General Topics on Windows 95 and Windows 98 Platforms

- Windows 9x has no intrinsic support for distributed COM applications. In order to enable distributed COM on these platforms the DCOM support has to be installed separately using the upgrade utility files DCOM95.EXE or DCOM98.EXE as available from Microsoft.
- When using Win9x as the client platform no additional considerations have to be taken.
- When using Win9x as server platform it has to be considered that DCOM for Windows 9x is not capable of automatically launching the COM server EXE file. Launching of the COM server application has to be done either manually or by including the EXE file into the autostart folder.
- In addition DCOM95 V.1.0 is not capable of automatically launching the remote procedure call service (rpcss.exe). In this case the rpcss.exe has to be included into the autostart folder of Win95 or Win95 must be upgraded to DCOM95 V.1.1
- DCOM has to be enabled using the DCOMCNFG.EXE utility.

General Topics on Windows NT4 and Windows 2000 Platforms

- Windows NT4 and Windows 2000 have an intrinsic DCOM support. These operating systems do not need additional upgrades.
- DCOM has to be enabled using the DCOMCNFG.EXE utility.

Networking issues

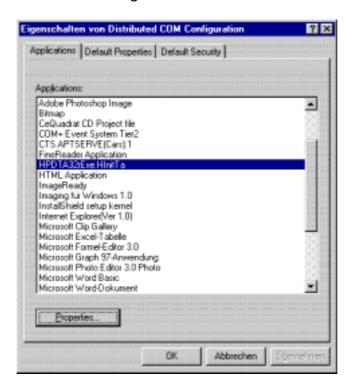
- The client computer and the server computer are both connected by a network.
- Both computers are part of the same network domain.
- The preferred network protocol is TCP/IP but also other protocols should be possible according to the COM specification.

Configuring the COM-Server

The COM server application has to be configured on the computer where it is located. This can either be done by manually modifying the registry or – more convenient – by using the DCOMCNFG.EXE utility that is part of DCOM. This utility is located in the \Windwos\System32 (on Win9x platforms) or in the \WinNT\System32 directory (on WinNT and Windows2000 platforms). It is assumed that the server component has been successfully registered on the server-computer.

a) Configuring a COM-Server on Windows 95 and Windows 98 Platforms

When DCOMCNFG.EXE is launched it pops up with a dialog as displayed below. On the "Application" TAB page you will find a list of all COM server applications that are registered on this machine.



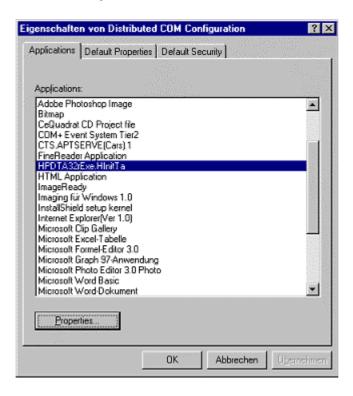
First select the TAB "Default Properties". Ensure that the item "Enable Distributed COM on this computer" is checked. As "Default Authentication Level" select "(None)" and as "Default Impersonation Level" select "Impersonate". Uncheck the item "Provide additional security for reference tracking".



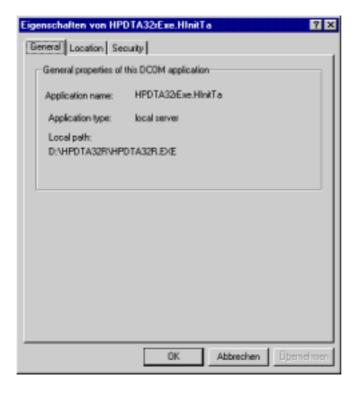
Then go to TAB page Default security and place a checkmark on item "Enable remote connection



If you need to change specific properties of the COM server application, activate the "Application" TAB page and from the "Applications" list highlight the module you are interested in and click the "Properties" button afterwards.



On the first page of the module properties dialog you can view some general information about the selected module



Go to the "Location" page and verify that the item "Run application on this computer" is checked. Uncheck all other items.

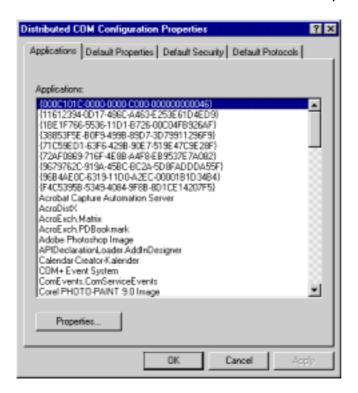


Because of the limited security capabilities on Win9x platforms there is nothing to configure on the module's "Security" settings

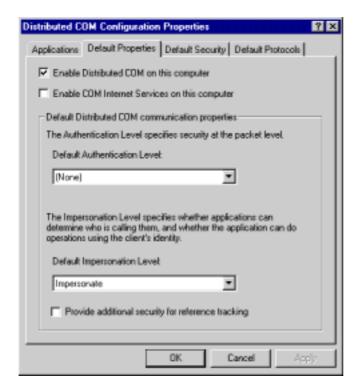


Configuring a COM-Server on Windows NT4 and Windows 2000 Platforms

When DCOMCNFG.EXE is launched it pops up with a dialog window as displayed below. On the "Applications" TAB-page you can find a list of all COM server modules that are installed on the computer.



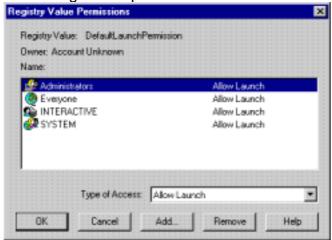
First select the TAB "Default Properties". Ensure that the item "Enable Distributed COM on this computer" is checked. As "Default Authentication Level" select "(None)" and as "Default Impersonation Level" select "Impersonate". Uncheck the items "Enable COM Internet Services on this computer" and "Provide additional security for reference tracking".



On the "Default Security" TAB-page you can configure the security options provided by WindowsNT and Windows2000.

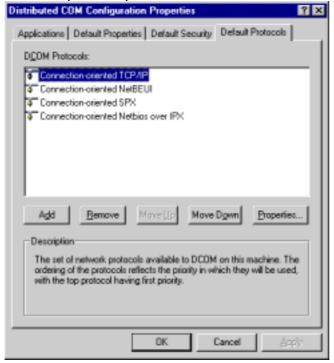


Press the "Edit Default ..." button to change the settings for access, launching and configuration permissions.

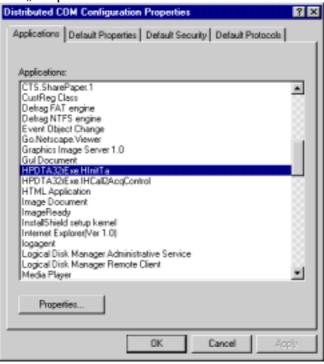


In case you do not include the user-group "Everyone" you need either add every user that should have access to a server component to the Windows user lists of a matching using group or you can change the individual component settings as described below.

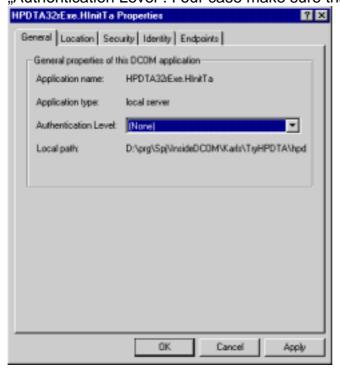
On the "Default Protocols" TAB-page you can specify the network protocols that can be used to access the server component and the order in which they are used. In any case you should take care that TCP/IP is installed and placed on the top of the protocol list.



If you want to view or change the individual settings of a certain COM-server, go to the "Applications" TAB-page and select the desired component. Press the "Properties" button afterwards.



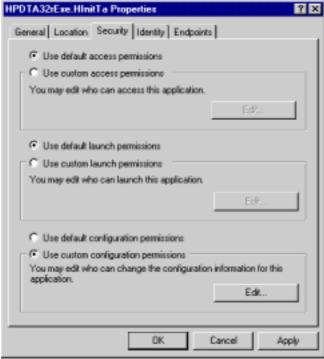
On the "General" page you can view some general information related to the selected module. Additionally you can select an individual "Authentication Level". I our case make sure that "(None)" is selected.



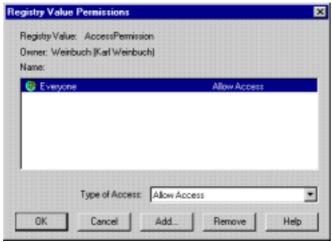
On the "Location" page make sure that item "Run application on this computer" has a check mark. Uncheck all other items.



On the security page you can configure the access, launch and configuration permissions individually for the selected component. This is very useful if you do not want to apply the default permissions. In case you do not grant permissions to the group "Everyone" as the general default setting but you want to grant permissions to the group "Everyone" for this specific component you can do all necessary settings here.

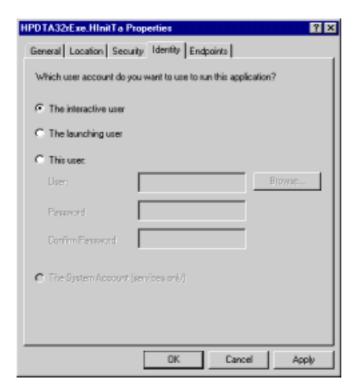


Simply select "Use custom access permissions" and then press the "Edit" button to open the Value Permissions dialog.



Add the desired user groups e.g. "Everyone" and press the "Close" button to return the properties dialog.

On the identity page you can specify the user account that is used when this server application runs on the computer. In case the server application pops up any type of window that should become visible on the monitor for any remote user logon then select "The interactive user". If you do not want that the windows pop up on the screen select either "The launching user" or "This user"



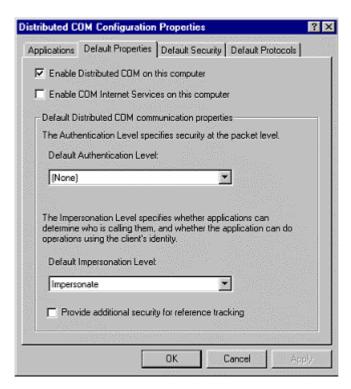
Finally on the "Endpoints" page you can individually specify and configure the network protocols used together with the component.



Configuring the COM Client

The main topic for the client configuration is to enable DCOM. This can be done by using DCOMCNFG.EXE.

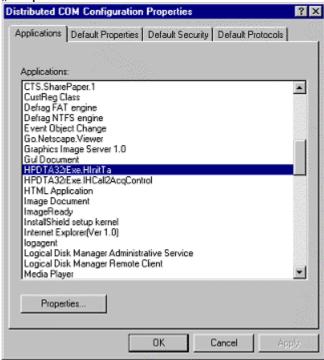
On the "Default Properties" page make sure the item "Enable Distributed COM on this computer" bears a checkmark.



If a client needs further configuration mainly depends on the way how the client application tries to establish the connection to the server application.

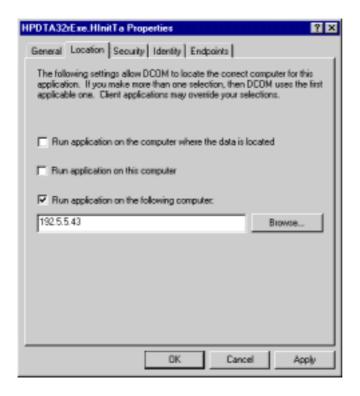
a) Configuring the COM-Client when using default COM access mechanism If the client is using the default COM access mechanism the location of the server application has to be configured with DCOMCNFG.EXE. In this case the server application has to registered on the client computer additionally.

From the "Applications" page select the server component, then press the "Properties" button.



Select the "Location" page and check the option

"Run application on the following computer". Uncheck the other options. On the edit field type in either the IP-address of the server computer e.g. 192.5.5.43 or the computer network name e.g. //kweinbuch. On WindowsNT and Windows2000 platforms you will find an additional "Browse" button to browse for the server computer.



b) Configuring the COM-Client when using explicit server names
If the connection to the server is established by explicitly specifying the
network address of the server computer no additional configuration of the
client is necessary. Using this method has the additional advantage that the
server application may not be registered on the client machine.

License and Keys

The remote control component for the HiPic and the HPD-TA can be used with the standard keys (dongles) for these programs. No special key is necessary. A special key which do not allow to run the standard products, but which allow to use the component without any user I/F (for specific applications) can be provided.

Migrating from Version 6.1 to 6.2

Outline

The ActiveX components from version 6.2 are not compatible to those of version 6.1. The IF is changed due to further requirements. The filenames are different for both versions and both versions can be used at the same computer. A client program designed for version 6.1 will still run with the component of version 6.1 (If this version has not been deleted or overwritten of course). If you want to use the component of version 6.2 with a client designed for version 6.1 you have to recompile your application using a reference to the component of version 6.2. In addition if your client program uses functions methods or properties which are removed in version 6.2 you have to substitute them by other functions (Normally they are removed because they are replaced by functions handling the topic under question in a better way).

Generally the following changements have been made:

- New Functions added to the HInitHi and HInitTa main objects: psApplicationDirectory (Returns the application directory), psWindowsDirectory (Returns the Windows directory of the computer where the component runs), pfReadFile (Reads the content of a file stored at the remote computer), pfWriteFile (Writes a file at the remote computer). These functions can be used to transfer data to or from a remote computer prior to start the main application HiPic or HPD-TA. Be careful with the pfWriteFile function. In the worst case you can destroy essential files on the remote computer.
- The same functions (psApplicationDirectory, psWindowsDirectory, pfReadFile, pfWriteFile) are also available in the HAppHiPic and HAppHPDTA main objects.
- getting the start status is now made more easy. The properties pfApplicationCreated and pfApplicationCreationFailed has been removed. Everything can now be inquired with the pfInitStatus property. There are the following possibilities: InitStatusNotInitialized = -2, InitStatusInitializing = -1, InitStatusInitialized = 0, InitStatusErrorDuringInit = 1, InitStatusNoLicence = 2, InitStatusCancel = 3. Generally if pfInitStatus<0 means not initialized, pfInitStatus=0 means Initialization succesful, pfInitStatus>0 Initialization not succesful. Pls. distinguish pfInitStatus from piStartStatus. piStartStatus tells you if the application has already been started from another location (Basically ActiveX-EXE only). If piStartStatus=StartStatusNone the application has not been started. If piStartStatus=StartStatusInit the application just shows thew init screen. If piStartStatus=StartStatusRunning the application is running. In the latter two cases you can get objects references to the HInitHi/Ta or HAppHiPic/HPDTA objects by the mHInitHiStart.pStartHInitHi (or mHInitTaStart.pStartHInitTa) and mHInitHiStart.pStartHAppHiPic (or mHInitTaStart.pStartHAppHPDTA) properties (See the example CltHiExe or CltTaExe for details).

The way some parameters are called have been changed to be more consequently. Input parameters are now always called by value. Sometimes in such cases the VB compiler gives an error message when compiling with the reference to version 6.2 saying that the parameter type is not indentival. To find out the correct prototyp it is most easy to outcomment the function and let the VB compiler write the prototype by just selecting the correct object procedure again. Then just copy back the code to the empty prototype. As an example take the Message event of the HInitHi main object. The old definition was:

```
Private Sub mHInitHi Message(sMessage As String)
    Your code is here...
End Sub
```

The new definition is

Private Sub mHInitHi_Message(ByVal sMessage As String) Your code is here...

The Definition of sMessage has consequently been changed to be ByVal.

- The HInitTa main object has been reorganized reflecting the fact that the properties to select the camera parameters are now in a separate window. Therefore as an example the interface object pHRadInitCamera has been renamed to pHRadCCDSetCamera. The main window contains now some new interface objects to display the selected devices like pHDisInitCCDCamera (showing the selected camera).
- All options in the area General, Acquisition, Images and Sequence (not true for other dialogs like correction) can now be accessed more easly. Instead of showing the corresponding dialog and setting the interface object to the correct value there are now properties in the corresponding main objects. Example: The option "Acquire always to the same window" in the Images options could (and still can) be selected by showing the dialog HImages (mHAppHiPic.pHImages.pHWinOptDlg.pfVisible=TRUE), than select the option (mHAppHiPic.pHImages.pHChkOptAcqToSameWnd.pfValue=TRUE), then execute the OK button of the dialog (mHAppHiPic.pHImages.pHComOptOK.pClick).

Now to get the same result you can just write:

mHAppHiPic.pHImages.pfOptionsAcqToSameWnd=TRUE.

- New Properties in the HAppHiPic object: pHFlatPanel, pHMenMainFreeze
- New Properties in the HAppHPDTA object: pHC488080, pHMenMainFreeze, pHMenMainShowDelay2StatusControl, pHMenMainTriggerSetup. The property pHMenMainStreakSetup has been removed.
- There is now a way to get information whether the CCD camera could be connected successfully. Th propety pfCommPortOpen of the HAllHipIc and HAppHPDTA tell it.
- Getting and transfering image data to and from an image is now made more easy. There are the functions pfGetDisplayData, pfGetImageData1Byte, pfGetImageData2Byte, pfGetImageData4Byte and pfSetImageData1Byte, pfSetImageData2Byte, pfSetImageData4Byte of the HImage main object. These functions can be used by both the ActiveX-DLL and ActiveX-EXE versions and do not use memory handles. To get the data arrays have to be used which can (and will) be resized by the component. The definition should be like

Private miData() As Integer

for getting 2 Byte data with the function pfGetImageData2Byte.

The functions pfGetImgData and pfSetImgData have been removed.

- The functions for loading and saving images have been improved. The now have a return value to show whether the function was successful or not (TRUE or FALSE). Therefore the functions have been renamed from pLoadImage to pfLoadImage and from pSaveImage to pfSaveImage. Loading and saving sequences are modified from pLoadSequence to pfLoadSequence and pSaveSequence to pfSaveSequence.
- New Options of the HImages main object dealing with Auto Live LUT and FWHM display.

- If new data has been written to an image the new pfUpdateImageAfterDataChange function of the HImages main object should be called. This is especially true if the data or LUT type of the image has been changed by the pfCreateEmptyImage function or by writing important parameters like LUT parameters to the status string.
- All camera objects now have the following properties which are used in combination with the new trigger setup: pfStreakOperate, pfStreakOperateDTBE, pfStreakUseDTBE, piStreakTriggerMethod, pGetStreakRelatedCCDCaps. These properties are public due to internal reasons, do not use them.
- The HC800020 object has two new properties pHCh4CamHighVoltage and pHEn4CamHVoltage dealing with high voltage control.
- The HExternalDevices main object has many new properties dealing with the new trigger setup, the auto delay function and the second delay generator (DELAY2). The DT2819 has been renamed to Counterboard because now two counter boards can be used. All releated controls have be renamed.
- The properties pfDlgHasUserIF and subroutines pfStartUserIFEvent and pfEndUserIFEvent have been removed because it has been found that they do fulfill their purpose correctly (the had been defined public due to internal reason, adn should not be used by the client programmer).
- The HExternalDevice main object has two new feature for convenience: piGPIBCableConnectionSuccess (it tell the client programmer whether the connection to the device was successful) and pfSetParameterToMaximum (Sets the specified parameter to the maximum value).
- The HAcq main object has a new function pUpdateCameraParms. This functions inquires the camera and sets the parameters image size and depth (bytes per pixel) to the correct values. The new function pGetAcqDim can than get the correct values.
- The HMsgBox object has been modified. If pfNoDialogs has been set to TRUE (or if the fNoDialogs parameter of the piInit Function druign startup has been set to TRUE) it outputs no message box on the screen but raises the MsgBox Event. This event has the parameters

Event MsgBox(ByVal iID As Integer, ByVal sPrompt As String, ByVal sTitle As String, ByVal Style As Integer, ByVal Buttons As Integer, ByRef default As Integer)

The iID parameters gives an indication which dialog text is used. I refers to the entry in the HiPicTa.Res file. The client program can the react according to this parameter. Example: iID = 2092: refers to "The currently selected image is not or not fully saved. Do you want to save it now? Image". If e.g. the client program wants to make a silent shutdown he can set default = vbNo. sPrompt is the text normally outputted, sTitle the title which normally is located on the caption of the messagebox. Style can be one of the following: vbokonly=0,vbcritical=16,vbQuestion=32,vbExclamation=48,vbInformation=64, Buttons can be:

vbokonly=0, vbokcancel=1, vbabortRetryIgnore=2, vbYesNoCancel=3, vbYesNo=4, vbRetryCancel=5. The client program can reply to the message box by setting the default value. Possible values are: vbok=1, vbCancel=2, vbAbort=3, vbRetry=4, vbIgnore=5, vbYes=6, vbNo=7. There is one issue to take into account: If the message boxc is a consequence of an action issued by the client program this event should not output a messagebox to the user and wait for the reply because then the component request is pending. Therefore the client program should distinguish whether the event has been raised due to an action of the component (either issued by the components user I/F or by an asyncronous command, in this case it is allowed to wait inifinitely) or by an action of the client program (For this purpose the samples uses the pfClientEvent property internally).

Details

In Detail the following changements have been made from version 6.1 to version 6.2

HinitHi:

New:

Read only property	pfInitStatus()	Integer	Returns a value indicating the current status of initialization. Possible values are defined in the enumeration InitStatus
Read only property	psApplicationDirectory ()	String	Returns the application directory
Read only property	psWindowsDirectory()	String	Returns the Windows directory of the computer where the component runs
Function	pfReadFile(ByVal sFileName As String, bArray()	Byte, ByRef ILength As Long, Optional sError As Variant)	Reads the content of a file stored at the remote computer
Function	pfWriteFile(ByVal sFileName As String, bArray()	Byte, ByRef ILength As Long, ByVal fDontOverw rite As Integer, Optional sError As Variant)	Writes a file at the remote computer

Modified:

Event	Message(ByVal sMessage As String)		Event which is raised to indicate processign steps during initialization
Function	pilnit(ByVal slinFile As String, ByVal fInitUserIF As Integer, ByVal fApplUserIF As Integer, ByVal fNoDialogs As Integer)	Integer	Initializes the HInit object. This places the INIT dialog on screen if started with InitUserIF
Sub	pGetLicenceKeys(ByR ef fApplicationKeyFound %, ByRef fLicenceAcquire%, ByRef fLicenceFitting%, ByRef fLicenceRCOnly%, ByRef fLicenceSave%, ByRef fLicenceSequence%, ByRef fLicenceSequence%, ByRef fLicenceSequence%, ByRef fLicenceTransAbs%)		Returns information about all licence keys which could be found

Removed: MsgBoxResult pfApplicationCreated pfApplicationCreation Failed

HAppHipic:

New:

Read only property	pHFlatPanel()	HFlatPanel	Returns an object reference to the FlatPanel Camera object (HFlatPanel). If this camera is not used NOTHING is returned
Read only property	pHMenMainFreeze()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Freeze' menu
Read only property	psWindowsDirectory()	String	Returns the Windows directory of the computer where the component runs
Read/write property	pfOptionLUTTool()	Integer	Sets or returns a value which defines whether the LUT tool should be shown on the main window
Read/write property	pfOptionRestoreWindo wPos()	Integer	Sets or returns a value which defines whether window positions should be restored or not when the window is reactivated
Read/write property	pfOptionUserFunctions ()	Integer	Sets or returns a value which defines whether the User function is called or not
Read/write property	plOptionBackgroundCo	Long	Sets or returns a value which defines the background color

	lor()		
Read only property	pfCommPortOpen()	Integer	Returns a value which defines whether the communication port could
			be opened successfully for camera control
Function	pfReadFile(ByVal	Byte, ByRef	Reads the content of a file stored at the remote computer
	sFileName As String,	lLength As	
	bArray()	Long,	
		Optional	
		sError As	
		Variant)	
Function	pfWriteFile(ByVal	Byte, ByRef	Writes a file at the remote computer
	sFileName As String,	lLength As	
	bArray()	Long, ByVal	
		fDontOverw	
		rite As	
		Integer,	
		Optional	
		sError As	
		Variant)	

Modified:

Function	psErrorString(ByVal	String	Returns a description of the Error related to error No. Index
	Index As Integer)		

HinitTa:

New:

TYCW.			
Event	MsgBox(ByVal iID As		Event which is raised in remote control mode when the pfNoDialogs is
	Integer, ByVal sPrompt		set to true instead of showing a \r\r\nmessagebox. This event can be use
	As String, ByVal sTitle		for the client program to react on such messages
	As String, ByVal Style		
	As Integer, ByVal		
	Buttons As Integer,		
	ByRef default As		
	Integer)		
Read only property	pfInitStatus()	Integer	Returns a value indicating the current status of initialization. Possible
read only property	primisutus()	integer	values are defined in the enumeration InitStatus
Read only property	pHComCCDSetCancel(HCommand	THE OTHER HELD STATE OF THE OTHER STATE OTHE
read only property		Treemmana	
Read only property	pHComCCDSetGetCon	HCommand	Returns an object reference to the HCommand object associated with
reductionly property	figFile()	Treommana	the init dialogs 'Get Config File' pushbutton
Read only property	pHComCCDSetOK()	HCommand	the fine datings oct coming the pushbutton
Read only property	pHComInitSetupCCD()	HCommand	Returns an object reference to the HCommand object associated with
Read only property	pricommisetupeed()	Ticommand	the init dialogs 'Setup CCD' pushbutton
Read only property	pHComInitSetupStreak	HCommand	Returns an object reference to the HCommand object associated with
Read only property	Devices()	Ticommand	the init dialogs 'Setup Streak Devices' pushbutton
D 11	pHDisInitCCDCamera(HDisp	
Read only property	phDisinitCCDCamera(ныѕр	Returns an object reference to the HDisp object associated with the init
D 1 1	pHDisInitDevice1()	IID:	dialogs 'CCD Camera' display area Returns an object reference to the HDisp object associated with the init
Read only property	phDisinitDevice1()	HDisp	2 2
	1751715160	****	dialogs 'Device 1' display area
Read only property	pHDisInitDevice2()	HDisp	Returns an object reference to the HDisp object associated with the init
			dialogs 'Device 2' display area
Read only property	pHDisInitDevice3()	HDisp	Returns an object reference to the HDisp object associated with the init
			dialogs 'Device 3' display area
Read only property	pHDisInitDevice4()	HDisp	Returns an object reference to the HDisp object associated with the init
			dialogs 'Device 4' display area
Read only property	pHDisInitGPIBAddr1()	HDisp	Returns an object reference to the HDisp object associated with the init
			dialogs GPIB Address 1' display area
Read only property	pHDisInitGPIBAddr2()	HDisp	Returns an object reference to the HDisp object associated with the init
			dialogs GPIB Address 2' display area
Read only property	pHDisInitGPIBAddr3()	HDisp	Returns an object reference to the HDisp object associated with the init
			dialogs GPIB Address 3' display area
Read only property	pHDisInitGPIBAddr4()	HDisp	Returns an object reference to the HDisp object associated with the init
			dialogs GPIB Address 4' display area
Read only property	pHEdnCCDSetC47429	HEditNumb	Returns an object reference to the HEditNumber object associated with
	5ComPort()	er	init dialogs 'C474295 Com Port' editbox
Read only property	pHEdnCCDSetC47429	HEditNumb	Returns an object reference to the HEditNumber object associated with
	8ComPort()	er	init dialogs 'C474298 Com Port' editbox
Read only property	pHEdnCCDSetC48808	HEditNumb	Returns an object reference to the HEditNumber object associated with
	0ComPort()	er	init dialogs 'C4880-8X Com Port' editbox
Read only property	pHEdnCCDSetC4880C	HEditNumb	Returns an object reference to the HEditNumber object associated with
	omPort()	er	init dialogs 'C4880 Com Port' editbox
Read only property	pHEdnCCDSetGrabber	HEditNumb	Returns an object reference to the HEditNumber object associated with
Property	SysNo()	er	init dialogs 'Board number' editbox (Also referred to system number)
Read only property	pHEstCCDSetConfiFile	HEditString	Returns an object reference to the HEditString object associated with
Time only property	()	unduning	the init dialogs 'Config File' editbox
L	V	1	and min damage coming the curron

Read only property	pHFraCCDSetCamera()	HFrame	Returns an object reference to the HFrame object associated with the init dialogs CCD Setup' frame
Read only property	pHRadCCDSetCamera(HRadios	Returns an object reference to the HRadios object associated with the init dialogs 'Camera' radiobutton group
Read only property	pHRadCCDSetFrameG rabber()	HRadios	Returns an object reference to the HRadios object associated with the init dialogs 'Frame Grabber' group
Read only property	psApplicationDirectory ()	String	Returns the application directory
Read only property	psWindowsDirectory()	String	Returns the Windows directory of the computer where the component runs
Function	pfReadFile(ByVal sFileName As String, bArray()	Byte, ByRef ILength As Long, Optional sError As Variant)	Reads the content of a file stored at the remote computer
Function	pfWriteFile(ByVal sFileName As String, bArray()	Byte, ByRef ILength As Long, ByVal fDontOverw rite As Integer, Optional sError As Variant)	Writes a file at the remote computer

Modified:

Event	Message(ByVal		Event which is raised to indicate processign steps during initialization
	sMessage As String)		
Function	piInit(ByVal sIniFile	Integer	Initializes the HInit object. This places the INIT dialog on screen if
	As String, ByVal		started with InitUserIF
	fInitUserIF As Integer,		
	ByVal fApplUserIF As		
	Integer, ByVal		
	fNoDialogs As Integer)		
Sub	pGetLicenceKeys(ByR		Returns information about all licence keys which could be found
	ef		
	fApplicationKeyFound		
	%, ByRef		
	fLicenceAcquire%,		
	ByRef		
	fLicenceFitting%,		
	ByRef		
	fLicenceRCOnly%,		
	ByRef fLicenceSave%,		
	ByRef		
	fLicenceSequence%,		
	ByRef		
	fLicenceTransAbs%)		

Removed: MsgBoxResult
pfApplicationCreated
pfApplicationCreation Failed
phComInitGetConfigFile

Read only property	pHEdnInitC474295Co	HEditNumb	Returns an object reference to the HEditNumber object associated with
	mPort()	er	init dialogs 'C474295 Com Port' editbox
Read only property	pHEdnInitC474298Co	HEditNumb	Returns an object reference to the HEditNumber object associated with
	mPort()	er	init dialogs 'C474298 Com Port' editbox
Read only property	pHEdnInitC4880ComP	HEditNumb	Returns an object reference to the HEditNumber object associated with
	ort()	er	init dialogs 'C4880 Com Port' editbox
Read only property	pHEdnInitGrabberSysN	HEditNumb	Returns an object reference to the HEditNumber object associated with
	o()	er	init dialogs 'Board number' editbox (Also referred to system number)
Read only property	pHEstInitConfiFile()	HEditString	Returns an object reference to the HEditString object associated with
			the init dialogs 'Config File' editbox
Read only property	pHFraInitCamera()	HFrame	Returns an object reference to the HFrame object associated with the
			init dialogs CCD Setup' frame
Read only property	pHRadInitCamera()	HRadios	Returns an object reference to the HRadios object associated with the
			init dialogs 'Camera' radiobutton group
Read only property	pHRadInitFrameGrabbe	HRadios	Returns an object reference to the HRadios object associated with the
	r()		init dialogs 'Frame Grabber' group

HAppHPDTA New:

Read only property	pfCommPortOpen()	Integer	Returns a value which defines whether the communication port could
			be opened succesfully for camera control

Read only property	pHC488080()	HC488080	Returns an object reference to the C4880-80 Camera object (HC488080). If this camera is not used NOTHING is returned
Read only property	pHComMainFreeze()	HCommand	Returns an object reference to the HCommand object associated with the main dialogs 'Freeze' pushbutton
Read only property	pHMenMainShowDela y2StatusControl()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Show Delay2 Status/Control' menu entry
Read only property	pHMenMainTriggerSet up()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Trigger Setup' menu entry
Read only property	psWindowsDirectory()	String	Returns the Windows directory of the computer where the component runs
Read/write property	pfOptionLUTTool()	Integer	Sets or returns a value which defines whether the LUT tool should be shown on the main window
Read/write property	pfOptionRestoreWindo wPos()	Integer	Sets or returns a value which defines whether window positions should be restored or not when the window is reactivated
Read/write property	pfOptionUserFunctions ()	Integer	Sets or returns a value which defines whether the User function is called or not
Read/write property	plOptionBackgroundCo lor()	Long	Sets or returns a value which defines the background color
Function	pfReadFile(ByVal sFileName As String, bArray()	Byte, ByRef ILength As Long, Optional sError As Variant)	Reads the content of a file stored at the remote computer
Function	pfWriteFile(ByVal sFileName As String, bArray()	Byte, ByRef ILength As Long, ByVal fDontOverw rite As Integer, Optional sError As Variant)	Writes a file at the remote computer

Removed:

pHMenMainStreakSetup Modified:

Function	psErrorString(ByVal	String	Returns a description of the Error related to error No. Index	
	Index As Integer)			

Himage: New: Function

Function	pfSetImageData1Byte(Byte,	Sets 1byte/pixel data (8 bit) within a specified area of the image. If the
	ByVal iX As Integer,	Optional	image contains another type of data an error is returned
	ByVal iDX As Integer,	sError As	
	ByVal iY As Integer,	Variant) As	
	ByVal iDY As Integer,	Integer	
	ByRef bImgData()		
Function	pfSetImageData2Byte(Integer,	Sets 2byte/pixel data (8 bit) within a specified area of the image. If the
	ByVal iX As Integer,	Optional	image contains another type of data an error is returned
	ByVal iDX As Integer,	sError As	
	ByVal iY As Integer,	Variant) As	
	ByVal iDY As Integer,	Integer	
	ByRef iImgData()		
Function	pfSetImageData4Byte(Long,	Sets 4byte/pixel data (8 bit) within a specified area of the image. If the
	ByVal iX As Integer,	Optional	image contains another type of data an error is returned
	ByVal iDX As Integer,	sError As	
	ByVal iY As Integer,	Variant) As	
	ByVal iDY As Integer,	Integer	
	ByRef lImgData()		
Function	pfLoadImage(Optional	Integer	Loads an image
	sFile As Variant,		
	Optional fShow As		
	Variant)		
Function	pfSaveImage(Optional	Integer	Saves the image
	sFile As Variant,	_	-
	Optional sAreDefault		
	As Variant, Optional		
	fSaveROI As Variant)		

Modified:

Function	pfGetDisplayData(ByV	Byte,	Gets the display data (8 bit) within a specified area of the image
	al iX As Integer, ByVal	Optional	
	iDX As Integer, ByVal	sError As	
	iY As Integer, ByVal	Variant) As	
	iDY As Integer, ByRef	Integer	

	bImgDisplay()		
Function	pfGetImageData1Byte(Byte,	Gets 1byte/pixel data (8 bit) within a specified area of the image. If the
	ByVal iX As Integer,	Optional	image contains another type of data an error is returned
	ByVal iDX As Integer,	sError As	
	ByVal iY As Integer,	Variant) As	
	ByVal iDY As Integer,	Integer	
	ByRef bImgData()		
Function	pfGetImageData2Byte(Integer,	Gets 2byte/pixel data (16 bit) within a specified area of the image. If
	ByVal iX As Integer,	Optional	the image contains another type of data an error is returned
	ByVal iDX As Integer,	sError As	
	ByVal iY As Integer,	Variant) As	
	ByVal iDY As Integer,	Integer	
	ByRef iImgData()		
Function	pfGetImageData4Byte(Long,	Gets 4byte/pixel data (32 bit) within a specified area of the image. If
	ByVal iX As Integer,	Optional	the image contains another type of data an error is returned
	ByVal iDX As Integer,	sError As	
	ByVal iY As Integer,	Variant) As	
	ByVal iDY As Integer,	Integer	
	ByRef lImgData()		
Function	pfMemGetPRFData(By	Long, ByRef	Returns an array of profile values within a specified ROI
	Ref lProfile()	iNrData As	
		Integer,	
		ByVal iX As	
		Integer,	
		ByVal iY As	
		Integer,	
		ByVal iDX	
		As Integer,	
		ByVal iDY	
		As Integer,	
		ByVal	
		iProfileType	
		As Integer,	
		ByRef	
		iDatType As	
		Integer,	
		ByVal	
		iMaxLen As	
		Integer,	
		ByRef	
		sError As	
		String) As	
		Integer	

Removed: pfGetImgData pfSetImgData pLoadImage pSaveImage

HImages: New:

11011.			
Read only property	pHChkOptAutoLiveLU T()	HCheck	Returns an object reference to the HCheck object associated with the options dialogs 'Auto Live LUT' checkbox
Read only property	pHChkOptDisplayFWH M()	HCheck	Returns an object reference to the HCheck object associated with the options dialogs 'Display FWHM' checkbox
Read only property	pHComFWHMColor()	HCommand	Returns an object reference to the HCheck object associated with the options dialogs 'FWHM color' checkbox
Read only property	pHEdnOptFWHMNoOf Digits()	HEditNumb er	Returns an object reference to the HEditNumber object associated with options dialogs 'FWHM No. of Digits' editbox
Read only property	pHEdnOptFWHMSize(HEditNumb er	options dialogs 'FWHM Size' editbox
Read/write property	pfOptionsAcqToSame Wnd()	Integer	Sets or returns a value which defines whether the acquisition should always be done in the same window
Read/write property	pfOptionsAutoLiveLU T()	Integer	Sets or returns a value which defines whether AUTO Live LUT should be excuted during Live mode
Read/write property	pfOptionsAutoLUT()	Integer	Sets or returns a value which defines whether Auot LUT should be excuted aftre image acquisition
Read/write property	pfOptionsFixedITEXHe ader()	Integer	Sets or returns a value which defines whether the image should be saved with fixed header
Read/write property	pfOptionsROIUseMinA sZero()	Integer	Sets or returns a value which defines whether the minimum should be used as zero point for FWHM calculation
Read/write property	pfOptionsWarnUnsaved	Integer	Sets or returns a value which defines whether the user should be

	0		warned when an unsaved image is closed
Read/write property	pftOptionsDefZoomFac	Single	Sets or returns the default zooming factor
	tor()		
Read/write property	piOptionsROIPrf()	Integer	
Function	pfUpdateImageAfterDa taChange(ByVal iImg As Integer, Optional sError As Variant)		A function that updates all relevant modules after the client programmer has changed the image data, its size, data depth or status
Sub	pGetFWHMProperties(ByRef fDisplayFWHM As Integer, ByRef IColor As Long, ByRef iFontSize As Integer, ByRef iNoOfDigits As Integer)		Returns all relevant informations for writing the FWHM assoziated with the quick profile

Modified:

Event	CloseSequenceImage(B		Event which is sent to tell other objects that a sequence image will now
Lyon	yVal Index As Integer,		be closed. This event is used by the HSequence object to free all related
	ByVal Mode As		memory
	Integer, ByRef Cancel		memory
	As Integer, ByRef		
	SaveQueryDone As		
	Integer, ByRef		
	ImageRemoved As		
	Integer)		
Event	CurrentImageChanged(Event which is raised when the current image changes
	ByVal iImg As Integer)		
Event	FileNameChanged(ByV		Event which is raised when the File name has changed
	al iImg As Integer)		
Event	ImageDataChanged(By		Event which is raised when the image data has changed
	Val iImg As Integer)		
Event	ImageRemoved(ByVal		Event which is raised when the image has been removed
	Index As Integer)		
Event	Message(ByVal		Event which is raised to inform the user of ongoing operations
	sMessage As String)		
Event	RemoveImage(ByVal		Event which is raised when an image will be removed
	Index As Integer,		
	ByRef Cancel As		
	Integer)		
Function	pfLoadImage(Optional	Integer	Loads an image
	sFile As Variant,		
	Optional fShow As		
	Variant, Optional		
	iImgIndex As Integer)		
Function	pfLoadImageNoShow(Integer	Loads an image without showing it
	ByVal sFile As String,		
	ByVal iType As		
	Integer, ByRef iImg As		
	Integer)		

HSystemScaling: Modified:

Event	Message(ByVal		Event which is raised to inform the user of ongoing operations
	sMessage As String)		
Function	pfGetFromTextFile(By	Integer	Executes the ""Get Form Text File"" function specifiying a file name
	Val sTextFile As		for the text file
	String, Optional sError		
	As Variant)		

HSequence: New:

TICW.			
Function	pfLoadSequence(Optio	Integer	Loads a sequence
	nal sFileOpt As		
	Variant, Optional		
	iSeqModeOpt As		
	Variant)		
Function	pfSaveSequence(Option	Integer	Saves a sequence
	al sFile As Variant,		
	Optional sAreDefault		
	As Variant, Optional		
	fSaveROI As Variant)		

Modified:

Event	SeqSingleAcqEnded(B	Event which is raised when a single acquisition within a sequence has
	yVal iIndex As Integer)	been ended
Event	Message(ByVal	Event which is raised to inform the user of ongoing operations
	sMessage As String)	

Removed:

StartStreakTrigger pLoadSequence pSaveSequence

HJitter:

Event	Message(ByVal	Event which is raised to inform the user of ongoing operations	
	sMessage As String)		

HACam:

New:

New.			
Read/write property	pfStreakOperate()	Integer	A value that tells the camera object whether vertical streak operation is switched on. Don't modify this entry otherwise streak trigger handshake may not longer work
Read/write property	pfStreakOperateDTBE(Integer	A value that tells the camera object whether horizontal streak operation is switched on. Don't modify this entry otherwise streak trigger handshake may not longer work
Read/write property	pfStreakUseDTBE()	Integer	Tells the camera object that a Dual time base extender is currently used for trigger handshake
Read/write property	piStreakTriggerMethod ()	Integer	Tells the camera (or acquisition/sequence) object the streak trigger method. Don't modify this entry otherwise Steak trigger handshake may no longer work
Function	pGetStreakRelatedCCD Caps(ByRef fCCDCanExtTrig As Integer, ByRef fCCDCanStartStop As Integer, ByRef sExtTrigCCDMethod As String, ByRef sExtTrigCPUMethod As String, ByRef sStartStopCCDMethod As String, ByRef sStartStopCCDMethod As String, ByRef		Returns streak trigger related capabilities of the CCD camera

HC474295:

New:

New:			
Read/write property	pfStreakOperate()	Integer	A value that tells the camera object whether vertical streak operation is switched on. Don't modify this entry otherwise streak trigger handshake may not longer work
Read/write property	pfStreakOperateDTBE(Integer	A value that tells the camera object whether horizontal streak operation is switched on. Don't modify this entry otherwise streak trigger handshake may not longer work
Read/write property	pfStreakUseDTBE()	Integer	Tells the camera object that a Dual time base extender is currently used for trigger handshake
Read/write property	piStreakTriggerMethod ()	Integer	Tells the camera (or acquisition/sequence) object the streak trigger method. Don't modify this entry otherwise Steak trigger handshake may no longer work
Function	pGetStreakRelatedCCD Caps(ByRef fCCDCanExtTrig As Integer, ByRef fCCDCanStartStop As Integer, ByRef sExtTrigCCDMethod As String, ByRef sExtTrigCPUMethod As String, ByRef sStartStopCCDMethod As String, ByRef sStartStopCCDMethod As String, ByRef sStartStopCPUMethod As String, ByRef		Returns streak trigger related capabilities of the CCD camera

HC4880:

New:

Read/write property	pfStreakOperate()	Integer	A value that tells the camera object whether vertical streak operation is switched on. Don't modify this entry otherwise streak trigger handshake may not longer work
Read/write property	pfStreakOperateDTBE(Integer	A value that tells the camera object whether horizontal streak operation is switched on. Don't modify this entry otherwise streak trigger handshake may not longer work
Read/write property	pfStreakUseDTBE()	Integer	Tells the camera object that a Dual time base extender is currently used for trigger handshake
Read/write property	piStreakTriggerMethod ()	Integer	Tells the camera (or acquisition/sequence) object the streak trigger method. Don't modify this entry otherwise Steak trigger handshake may no longer work
Function	pGetStreakRelatedCCD Caps(ByRef fCCDCanExtTrig As Integer, ByRef fCCDCanStartStop As Integer, ByRef sExtTrigCCDMethod As String, ByRef sExtTrigCPUMethod As String, ByRef sStartStopCCDMethod As String, ByRef sStartStopCCDMethod As String, ByRef		Returns streak trigger related capabilities of the CCD camera

HC488080:

New:

Read/write property	pfStreakOperate()	Integer	A value that tells the camera object whether vertical streak operation is switched on. Don't modify this entry otherwise streak trigger handshake may not longer work
Read/write property	pfStreakOperateDTBE()	Integer	A value that tells the camera object whether horizontal streak operation is switched on. Don't modify this entry otherwise streak trigger handshake may not longer work
Read/write property	pfStreakUseDTBE()	Integer	Tells the camera object that a Dual time base extender is currently used for trigger handshake
Read/write property	piStreakTriggerMethod ()	Integer	Tells the camera (or acquisition/sequence) object the streak trigger method. Don't modify this entry otherwise Steak trigger handshake may no longer work
Function	pGetStreakRelatedCCD Caps(ByRef fCCDCanExtTrig As Integer, ByRef fCCDCanStartStop As Integer, ByRef sExtTrigCCDMethod As String, ByRef sExtTrigCPUMethod As String, ByRef sStartStopCCDMethod As String, ByRef sStartStopCCDMethod As String, ByRef sStartStopCPUMethod As String, ByRef		Returns streak trigger related capabilities of the CCD camera
Read only property	pHCh4CamStreakTrigg er()	HCheck4Arr ay	Returns an object reference to the HCheck4Array object associated with the camera dialogs 'Streak Trigger Active' checkbox
Read only property	pHDi4CamStreakTrigg er()	HDisp4Arra y	Returns an object reference to the HDisp4Array object associated with the camera dialogs 'Streak Trigger' display area
Read only property	pHEd4CamNrTrigger()	HEditNumb er4Array	Returns an object reference to the HEditNumber4Array object associated with the camera dialogs 'Number of Streak Trigger' editbox
Read only property	pHFr4CamStreakTrigge r()	HFrame4Arr ay	Returns an object reference to the HFrame4Array object associated with the camera dialogs 'Streak Trigger'

HC474298:

New:

110W.			
Read/write property	pfStreakOperate()	Integer	A value that tells the camera object whether vertical streak operation is switched on. Don't modify this entry otherwise streak trigger handshake
			may not longer work
Read/write property	pfStreakOperateDTBE(Integer	A value that tells the camera object whether horizontal streak operation
			is switched on. Don't modify this entry otherwise streak trigger
			handshake may not longer work
Read/write property	pfStreakUseDTBE()	Integer	Tells the camera object that a Dual time base extender is currently used
			for trigger handshake

Read/write property	piStreakTriggerMethod ()	Integer	Tells the camera (or acquisition/sequence) object the streak trigger method. Don't modify this entry otherwise Steak trigger handshake may no longer work
Function	pGetStreakRelatedCCD Caps(ByRef fCCDCanExtTrig As Integer, ByRef fCCDCanStartStop As Integer, ByRef sExtTrigCCDMethod As String, ByRef sExtTrigCPUMethod As String, ByRef sStartStopCCDMethod As String, ByRef sStartStopCCDMethod As String, ByRef		Returns streak trigger related capabilities of the CCD camera

HC800020:

New:

Read only property	pHCh4CamHighVoltag	HCheck4Arr	Returns an object reference to the HCheck4Array object associated
	e()	ay	with the camera dialogs 'High Voltage' checkbox
Read only property	pHEn4CamHVoltage()	HEntry4Arra	Returns an object reference to the HEntry4Array object associated with
		y	the camera dialogs 'High Voltage' entrybox

New Object HFlatPanel All events, properties and methods are new.

HExternalDevices:

New:

Read only property	pfStreakUseDTBE()	Integer	Tells the camera object that a Dual time base extender is currently used
			for trigger handshake
Read only property	pHCh4SetupOptionDel	HCheck4Arr	Returns an object reference to the HCheck4Array object associated
	ay2()	ay	with the device control setup dialogs 'Use Delay2 Option' checkbox
Read only property	pHChkAutoDelParamet	HCheck	Returns an object reference to the HCheck object associated with the
* * * *	er00()		device control setup dialogs 'Auto Delay parameter 00' checkbox
Read only property	pHChkAutoDelParamet	HCheck	Returns an object reference to the HCheck object associated with the
71 1 7	er01()		device control setup dialogs 'Auto Delay parameter 01' checkbox
Read only property	pHChkAutoDelParamet	HCheck	Returns an object reference to the HCheck object associated with the
31 1 3	er02()		device control setup dialogs 'Auto Delay parameter 02' checkbox
Read only property	pHChkAutoDelParamet	HCheck	Returns an object reference to the HCheck object associated with the
31 1 3	er03()		device control setup dialogs 'Auto Delay parameter 03' checkbox
Read only property	pHChkAutoDelParamet	HCheck	Returns an object reference to the HCheck object associated with the
real series	er04()		device control setup dialogs 'Auto Delay parameter 04' checkbox
Read only property	pHChkAutoDelParamet	HCheck	Returns an object reference to the HCheck object associated with the
Jr Ir I	er05()		device control setup dialogs 'Auto Delay parameter 05' checkbox
Read only property	pHChkAutoDelParamet	HCheck	Returns an object reference to the HCheck object associated with the
real series	er06()		device control setup dialogs 'Auto Delay parameter 07' checkbox
Read only property	pHChkAutoDelParamet	HCheck	Returns an object reference to the HCheck object associated with the
rious only property	er07()	110110011	device control setup dialogs 'Auto Delay parameter 07' checkbox
Read only property	pHChkAutoDelParamet	HCheck	Returns an object reference to the HCheck object associated with the
rious only property	er08()	110110011	device control setup dialogs 'Auto Delay parameter 08' checkbox
Read only property	pHChkAutoDelParamet	HCheck	Returns an object reference to the HCheck object associated with the
read only property	er09()	110110011	device control setup dialogs 'Auto Delay parameter 09' checkbox
Read only property	pHChkAutoDelParamet	HCheck	Returns an object reference to the HCheck object associated with the
J I I I	er10()		device control setup dialogs 'Auto Delay parameter 10' checkbox
Read only property	pHChkAutoDelParamet	HCheck	Returns an object reference to the HCheck object associated with the
real series	er11()		device control setup dialogs 'Auto Delay parameter 11' checkbox
Read only property	pHChkAutoDelParamet	HCheck	Returns an object reference to the HCheck object associated with the
real and brokens	er12()		device control setup dialogs 'Auto Delay parameter 12' checkbox
Read only property	pHChkAutoDelParamet	HCheck	Returns an object reference to the HCheck object associated with the
rious only property	er13()	110110011	device control setup dialogs 'Auto Delay parameter 13' checkbox
Read only property	pHChkAutoDelParamet	HCheck	Returns an object reference to the HCheck object associated with the
rious only property	er14()	110110011	device control setup dialogs 'Auto Delay parameter 14' checkbox
Read only property	pHChkAutoDelParamet	HCheck	Returns an object reference to the HCheck object associated with the
reductionly property	er15()	Treneek	device control setup dialogs 'Auto Delay parameter 15' checkbox
Read only property	pHChkAutoDelParamet	HCheck	Returns an object reference to the HCheck object associated with the
reductionly property	er16()	Treneek	device control setup dialogs 'Auto Delay parameter 16' checkbox
Read only property	pHChkAutoDelParamet	HCheck	Returns an object reference to the HCheck object associated with the
read only property	er17()	TICHECK	device control setup dialogs 'Auto Delay parameter 17' checkbox
Read only property	pHChkAutoDelParamet	HCheck	Returns an object reference to the HCheck object associated with the
read only property	er18()	TICHECK	device control setup dialogs 'Auto Delay parameter 18' checkbox
Read only property	pHChkAutoDelParamet	HCheck	Returns an object reference to the HCheck object associated with the
read only property	prichkautoben aramet	HOHECK	Actums an object reference to the frencek object associated with the

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Read only property pHChkAusobelParamet HCheck object counts setup dialogs. Atto Delay parameter 23' checkbox of excell property pHChkAusobelParamet HCheck object counts setup dialogs. Atto Delay parameter 24' checkbox of excell property pHChkAusobelParamet HCheck object associated with the device counts setup dialogs. Atto Delay parameter 24' checkbox of excell property pHChkAusobelParamet HCheck object associated with the device counts setup dialogs. Atto Delay parameter 25' checkbox of excell property phChkAusobelParamet HCheck object associated with the device counts setup dialogs. Atto Delay parameter 25' checkbox of excell property phChkAusobelParamet HCheck object associated with the device counts setup dialogs. Atto Delay parameter 26' checkbox of excell property photography and photography p	Read only property	-	HCheck	y y
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device control strup dialogs. Auto Delay parameter 24' checkbox	Read only property	V	HCheck	
device control stup dialogs Auto Delay parameter 25' checkbox Parameter 26' checkbox Parameter 26' checkbox Parameter 27' checkbox Param	• • • •	er24()		device control setup dialogs 'Auto Delay parameter 24' checkbox
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Read only property ep270 Read only property ep270 Read only property ep280 Read only property ep380 Read only property ep480 PHCMsTrigSetComnect Read only property ep480 Read only property ep480 Read only property ep480 PHCMsTrigSetComnect PHCMsTrigSetComnect Read only property ep480 PHCMsTrigSetComnect Read only property ep480 PHCMsTrigSetComnect PHCMsTrigSetComnect PHCMsTrigSetComnect Read only property ep480 PHCMsTrigSetComnect PHCMsTrigSetComnect PHCMsTrigSetComnect PHCMsTrigSetComnect Read only property ep480 PHCMsTrigSetComnect PHCMsTrigSetComnect PHCMsTrigSe	Read only property	-	HCheck	Returns an object reference to the HCheck object associated with the
Read only property epithchkAutoDelParamet ergs (28) Read only property pHChkAutoDelParamet ergs (29) Read only property pHChkAutoDelParamet ergs (29) Read only property pHChkAutoDelDelary on pHChkAutoDelBayary (29) Read only property pHChkAutoDelBayary (29) Read only property pHChkAutoDelBayary (29) Read only property pHChkSetupCounterflo and installed) Read only property pHChkSetupCounterflo and installed (29) Read only property pHChkTrigSetCounterflo and installed (29) Read only property pHComAutoDelCancel pHComAutoDelCancel pHComAutoDelCancel pHComTrigSetCancel (29) Read only property pHComAutoDelCancel pHComTrigSetCancel (20) Read only property pHC	Read only property	pHChkAutoDelParamet	HCheck	Returns an object reference to the HCheck object associated with the
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Read only property phths.Seupp.CounterBo andinastaled() phths.Seupp.GPIBConne edit.OptE.A.Y2() phths.Seupp.GPIBConne edit.OptE.A.Y2() phths.Seupp.GPIBConne edit.OptE.A.Y2() phths.TrigSetConnect phths.TrigSetConnect MonitorOut() phths.TrigSetConnect MonitorOut() phths.TrigSetConnect MonitorOut() phths.TrigSetConnect MonitorOut() phths.TrigSetConnect ResetIn() phths.TrigSetConnect() phths.TrigSetCon	Read only property	pHChkOptionsAutoDel	HCheck	Returns an object reference to the HCheck object associated with the
PichkseupGPIBConn ectedToDELAY2() PichColor Pi	Read only property	pHChkSetupCounterBo	HCheck	Returns an object reference to the HCheck object associated with the
Read only property DELAY20 Read only property DELAY20 Read only property Read only proper	Read only property	pHChkSetupGPIBConn	HCheck	Returns an object reference to the HCheck object associated with the
Read only property MonitorOut() Read only property PHComAutoDelCancel() Read only property PHComTrigSetCancel() PHDisAtuoDelIntroduct in ing() Read only property PHDisAtuoDelIntroduct in ing() Read only property PHDisTrigSetComputer ExposureControl() Read only property PHDisTrigSetComputer ResectOut() Read only property PHDisTrigSetDetectNote Phromatologue P	Read only property	pHChkSetupUseDevice	Hcheck	Returns an object reference to the HCheck object associated with the
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		Type()	_	Trigger Setup dialogs 'Main Unit Type' display area
v	Read only property	pHDisTrigSetPluginMo de()	HDisp	Returns an object reference to the HDisp object associated with the Trigger Setup dialogs 'Plugin Mode' display area

Dood only meananty	pHDisTrigSetPluginTy	IIDian	Returns an object reference to the HDisp object associated with the
Read only property	pe()	HDisp	Trigger Setup dialogs 'Plugin Type' display area
Read only property	pHDisTrigSetResetByG	HDisp	Returns an object reference to the HDisp object associated with the
	PIB()	_	Trigger Setup dialogs 'Reset by GPIB' display area
Read only property	pHDisTrigSetStreakCa	HDisp	Returns an object reference to the HDisp object associated with the
	meraGPIB()		Trigger Setup dialogs 'Streak camera GPIB' display area
Read only property	pHDisTrigSetTrigIn()	HDisp	Returns an object reference to the HDisp object associated with the
			Trigger Setup dialogs 'Trigger In' display area
Read only property	pHDisTrigSetVMonitor	HDisp	Returns an object reference to the HDisp object associated with the
	Out()		Trigger Setup dialogs 'V-Monitor Out' display area
Read only property	pHDisTrigSetVResetIn(HDisp	Returns an object reference to the HDisp object associated with the
)		Trigger Setup dialogs 'V-Reset In' display area
Read only property	pHDisTrigSetVTrigIn()	HDisp	Returns an object reference to the HDisp object associated with the Trigger Setup dialogs 'V-Trigger In' display area
Read only property	pHEdnTrigSetPostTrig	HEditNumb	Returns an object reference to the HEditNumber object associated with
Read only property	gerTime()	er	the Trigger setup dialogs 'Post Trigger Time' editbox
Read only property	pHEdnTrigSetResetDel	HEditNumb	Returns an object reference to the HEditNumber object associated with
Read only property	ay()	er	the Trigger setup dialogs 'Reset Delay' editbox
Read only property	pHRadTrigSetTriggerM	HRadios	Returns an object reference to the HRadios object associated with the
Transferry	ethod()		device control dialogs 'Trigger method' radiobutton group
Read only property	pHWinAutoDelDlg()	HWindow	Returns an object reference to the HWindow object associated with the
			Auto delay setup dialogs main window
Read only property	pHWinTimingDiagram(HWindow	Returns an object reference to the HWindow object associated with the
71 11 1)		Timing dialogs timing diagram window
Read only property	pHWinTimingDlg()	HWindow	Returns an object reference to the HWindow object associated with the
			Timing dialogs main window
Read only property	pHWinTrigSetDlg()	HWindow	Returns an object reference to the HWindow object associated with the
			Trigger setup dialogs main window
Read only property	pHProProcProgress()	HProgress	Returns an object reference to the HProgress object associated with the
			Processing dialogs 'Progress' bar
Read only property	piCounterBoardInstalle d()	Integer	Returns a flag which defines whether a Dt2819 board is installed
Read only property	piCounterBoardIOBase	Integer	Returns the DT2819 board IO base adress
Read only property	piStreakTriggerMethod	Integer	Returns the currently selected streak trigger method
Read only property	()	integer	Returns the currently selected streak trigger method
Function	rTA_IdentProperty(By	Integer	Returns a property value of the specified device
Tunction	Val iDeviceType As	integer	Returns a property value of the specified device
	Integer, ByVal		
	iPropertyID As Integer,		
	varReturn As Variant)		
Sub	pTA_HandleSRQs()		Gives the device DLLs the opportunity to handle SRQs (if any)
Function	rTA_TrigSet()	Integer	
Sub	pSetCCDCaps(fCCDCa		Sets CCD capabilities related to streak trigger handshake
	nExtTrig As Integer,		
	fCCDCanStartStop As		
	Integer,		
	sExtTrigCCDMethod		
	As String,		
	sExtTrigCPUMethod		
	As String,		
	sStartStopCCDMethod		
	As String,		
	sStartStopCPUMethod		
	As String)		

Modified:

Event	Message(ByVal	Event which is raised to inform the user of ongoing operations
	sMessage As String)	

Removed:

pfTriggerControlAvail pHChkSetupDt2819Installed pHEdnSetupDT2819IOBase piDT2819Installed piDT2819IOBase piTDTriggerCableConnected

HDevPar:

Modified:

Modified.					
Event	ChangeValue(ByVal		Event which is raised when the pfValue property changes		
	dbOldValue As Double.				

ByVal fFromDevice As	
Integer)	

Removed: pfDlgHasUserIF pfEndUserIFEvent pfStartUserIFEvent

HExternalDevice:

New:

Read only property	piGPIBCableConnectio nSuccess()	Integer	Returns a flag which defines whether the device is connected to the GP-IB board successfully
Function	pfSetParameterToMaxi mum(ByVal iParameter	Integer	Sets the specified parameter to the maximum value
	As Integer)		

HDevPars:

Modified:

Event	ChangeEnabled(ByVal	Event which is raised when the pfEnabled property changes
	Index As Integer)	
Event	ChangeLimits(ByVal	Event which is raised when either pvMinValue or pvMaxValue
	Index As Integer)	changes
Event	ChangeValue(ByVal	Event which is raised when the pfValue property changes
	Index As Integer,	
	ByVal dbOldValue As	
	Double, ByVal	
	fFromDevice As	
	Integer)	
Event	ChangeVisible(ByVal	Event which is raised when the pfVisible property changes
	Index As Integer)	

HAcq: New:

Read/write property	pfOptionAutoBacksub()	Integer	Sets or returns a value which defines whether Auto backsub function should be executed
Read/write property	pfOptionAutoCurvature ()	Integer	Sets or returns a value which defines whether Auto curvature function should be executed
Read/write property	pfOptionAutoShading()	Integer	Sets or returns a value which defines whether Auto shading function should be executed
Read/write property	pfOptionClipZero()	Integer	Sets or returns a value which defines whether clip to Zero function should be executed during background subtraction
Read/write property	pfOptionSlowDisplay()	Integer	Sets or returns a value which defines whether slow display function should be executed during LIVE mode
Read/write property	pfOptionWriteDPCFile(Integer	Sets or returns a value which defines whether DPC files should be written during photon counting
Read/write property	piOptionAdditionalTim eout()	Integer	Sets or returns the value for additional timeout
Sub	pGetAcqDim(iX As Integer, iY As Integer, iDX As Integer, iDY As Integer, iBytesPerPixel As Integer)		Gets the acquisition dimensions for the current camera settings
Sub	pUpdateCameraParms()		

Modified:

Event	CameraTemperature(By	Event which is raised when the camera temperature changes
	Val sTemp As String)	
Event	ChangeAcqMode(ByVa	Event which is raised when the Acquisiton mode changes
	l iAcqMode As Integer)	
Event	Message(ByVal	Event which is raised to inform the user of ongoing operations
	sMessage As String)	

Removed:

StartStreakTrigger

HGrb:

New:

Function	pfCanAcquireLargeFra	Integer	Returns a value which indicates that the current frame grabber
	mes()		configuration can acquire large frames (larger than the frame grabbers
			memory)

Modified:

Modified:			
Function	pfAcqEnterVB(ByVal fTargetField As Integer, ByVal ftTimeout As	Integer	Wait until the camera enters the vertical blank
Function	Single) pfAcqPassLine(ByVal lStartLine As Long, ByVal iVact As Integer, ByVal ftTimeout As	Integer	Waits until the camera passes a specified line. The line number can alos have the meaning of a byte counter
	Single)		
Function	pfGrbCopyFBToBuffer InParts(ByVal IpvBufferArea As Long, ByRef areBufferiX As Integer,	Integer	Copies the content of the frame buffer into a computers memory buffer in parts
	ByRef areBufferiY As Integer, ByRef areBufferiDX As Integer, ByRef areBufferiDY As Integer, ByRef		
	iBufferBytesPerPixel As Integer, ByVal iParts As Integer, ByVal fCheckValid As Integer)		
Function	pfGrbCopyFBToMem(ByRef HImage As HImage)	Integer	Copies the content of the frame buffer into an image memory
Function	pfGrbCopyFBToMemI nParts(ByRef HImage As HImage, ByVal iParts As Integer, ByVal fCheckValid As Integer)	Integer	Copies the content of the frame buffer into an image memory in parts
Function	pfGrbSetInputLUTforP C(ByVal iThreshold As Integer, ByVal iDat As Integer)	Integer	Sets the Input LUT for photon counting
Function	pilnit(ByVal sConfigFile As String, ByVal iGRB As Integer, ByVal iGrabberSysNo As Integer, ByVal iAmMod As Integer, ByVal iComPort As Integer, ByVal sError As String, ByRef HError As HError)	Integer	Initializes the frame grabber
Function	plAcqAmDigStartLine(ByRef areACQiX As Integer, ByRef areACQiY As Integer, ByRef areACQiDX As Integer, ByRef areACQiDX As Integer, ByRef areACQiDY As Integer, ByVal IpvBufferArea As Long, ByRef iBufferBytesPerPixel As Integer, ByRef ftTimeForReadout As Single, ByRef ftFrameTime As Single, ByVal ftTimeoutFromCamera As Single, ByRef ILastLine As Long)	Long	Calculates the starting line (or byte counter) used for the CatCo strategy
Function	plCurrenLine(ByVal iDY As Integer)	Long	Returns the current line (or byte counter)
Function	pRSeqDoABSequence(ByVal areGRBScaniX As Integer, ByVal areGRBScaniY As Integer, ByVal areGRBScaniDX As	Long, ByRef sISeqTime() As String, ByRef dbRSeqStart Time As	Executes an AB sequence

	1		·
	Integer, ByVal	Double,	
	areGRBScaniDY As	ByRef	
	Integer, ByVal	HEdnSeqCu	
	iBytesPerPixel As	rrentSample	
	Integer, ByVal fWrap	As	
	As Integer, lRSeqPtr()	HEditNumb	
	713 Integer, integer tr()	er, ByVal	
		fEnableStopi	
		nSequence	
		As Integer,	
		ByVal	
		iNrSamples	
		As Integer,	
		ByRef	
		IHCall2Acq	
		Control As	
		IHCall2Acq	
		Control,	
		ByVal	
		ftTimeout	
		As Single)	
	1	As Integer	
Sub	pAcqAverageMultipleF		Average a series of 8 bit images acquired from video camera with
	rames(ByVal		external trigger
	fICPAverageMultipleFr		
	ames As Integer, ByVal		
	iICPAverageMultipleFr		
	amesCount As Integer,		
	ByVal lpvBufferArea	1	
	As Long, ByVal		
	areBufferiX As Integer,		
	ByVal areBufferiY As		
	Integer, ByVal		
	areBufferiDX As		
	Integer, ByVal		
	areBufferiDY As		
	Integer, ByVal		
	iBufferBytesPerPixel		
1			
	As Integer, ByVal		
	As Integer, ByVal		
Sub	As Integer, ByVal lBuffer16Handle As Long)		Start a triggered sequential snap
Sub	As Integer, ByVal lBuffer16Handle As Long) pAcqGrbStartTrigSeqS		Start a triggered sequential snap
Sub	As Integer, ByVal IBuffer16Handle As Long) pAcqGrbStartTrigSeqS nap(ByVal		Start a triggered sequential snap
Sub	As Integer, ByVal IBuffer16Handle As Long) pAcqGrbStartTrigSeqS nap(ByVal fICPAverageMultipleFr		Start a triggered sequential snap
Sub	As Integer, ByVal IBuffer16Handle As Long) pAcqGrbStartTrigSeqS nap(ByVal fICPAverageMultipleFr ames As Integer, ByVal		Start a triggered sequential snap
Sub	As Integer, ByVal IBuffer16Handle As Long) pAcqGrbStartTrigSeqS nap(ByVal fICPAverageMultipleFr ames As Integer, ByVal iICPAverageMultipleFr		Start a triggered sequential snap
Sub	As Integer, ByVal IBuffer16Handle As Long) pAcqGrbStartTrigSeqS nap(ByVal fICPAverageMultipleFr ames As Integer, ByVal iICPAverageMultipleFr amesCount As Integer,		Start a triggered sequential snap
Sub	As Integer, ByVal IBuffer16Handle As Long) pAcqGrbStartTrigSeqS nap(ByVal fICPAverageMultipleFr ames As Integer, ByVal iICPAverageMultipleFr amesCount As Integer, ByVal		Start a triggered sequential snap
Sub	As Integer, ByVal IBuffer16Handle As Long) pAcqGrbStartTrigSeqS nap(ByVal fICPAverageMultipleFr ames As Integer, ByVal iICPAverageMultipleFr amesCount As Integer, ByVal miAdditionalTimeout		Start a triggered sequential snap
Sub	As Integer, ByVal IBuffer16Handle As Long) pAcqGrbStartTrigSeqS nap(ByVal fICPAverageMultipleFr ames As Integer, ByVal iICPAverageMultipleFr amesCount As Integer, ByVal miAdditionalTimeout As Integer, ByRef		Start a triggered sequential snap
Sub	As Integer, ByVal IBuffer16Handle As Long) pAcqGrbStartTrigSeqS nap(ByVal fICPAverageMultipleFr ames As Integer, ByVal iICPAverageMultipleFr amesCount As Integer, ByVal miAdditionalTimeout As Integer, ByRef IHCall2AcqControl As		Start a triggered sequential snap
	As Integer, ByVal IBuffer16Handle As Long) pAcqGrbStartTrigSeqS nap(ByVal fICPAverageMultipleFr ames As Integer, ByVal iICPAverageMultipleFr amesCount As Integer, ByVal miAdditionalTimeout As Integer, ByRef IHCall2AcqControl As IHCall2AcqControl)		
Sub	As Integer, ByVal IBuffer16Handle As Long) pAcqGrbStartTrigSeqS nap(ByVal fICPAverageMultipleFr ames As Integer, ByVal iICPAverageMultipleFr amesCount As Integer, ByVal miAdditionalTimeout As Integer, ByRef IHCall2AcqControl As IHCall2AcqControl) pCreateFrame(ByVal		Start a triggered sequential snap Creates a frame on the frame grabber
	As Integer, ByVal IBuffer16Handle As Long) pAcqGrbStartTrigSeqS nap(ByVal fICPAverageMultipleFr ames As Integer, ByVal iICPAverageMultipleFr amesCount As Integer, ByVal miAdditionalTimeout As Integer, ByRef IHCall2AcqControl As IHCall2AcqControl) pCreateFrame(ByVal iBits As Integer, ByVal		
	As Integer, ByVal IBuffer16Handle As Long) pAcqGrbStartTrigSeqS nap(ByVal fICPAverageMultipleFr ames As Integer, ByVal iICPAverageMultipleFr amesCount As Integer, ByVal miAdditionalTimeout As Integer, ByRef IHCall2AcqControl As IHCall2AcqControl) pCreateFrame(ByVal iBits As Integer, ByVal fSeqFrame As Integer,		
	As Integer, ByVal IBuffer16Handle As Long) pAcqGrbStartTrigSeqS nap(ByVal fICPAverageMultipleFr ames As Integer, ByVal iICPAverageMultipleFr amesCount As Integer, ByVal miAdditionalTimeout As Integer, ByRef IHCall2AcqControl As IHCall2AcqControl) pCreateFrame(ByVal iBits As Integer, ByVal		
	As Integer, ByVal IBuffer16Handle As Long) pAcqGrbStartTrigSeqS nap(ByVal fICPAverageMultipleFr ames As Integer, ByVal iICPAverageMultipleFr amesCount As Integer, ByVal miAdditionalTimeout As Integer, ByRef IHCall2AcqControl As IHCall2AcqControl) pCreateFrame(ByVal iBits As Integer, ByVal fSeqFrame As Integer, ByVal iNrSeqFrames As Integer)		
	As Integer, ByVal IBuffer16Handle As Long) pAcqGrbStartTrigSeqS nap(ByVal fICPAverageMultipleFr ames As Integer, ByVal iICPAverageMultipleFr amesCount As Integer, ByVal miAdditionalTimeout As Integer, ByRef IHCall2AcqControl As IHCall2AcqControl) pCreateFrame(ByVal iBits As Integer, ByVal fSeqFrame As Integer, ByVal iNrSeqFrames As Integer) pfGrbCopyFBToBuffer		Creates a frame on the frame grabber
Sub	As Integer, ByVal IBuffer16Handle As Long) pAcqGrbStartTrigSeqS nap(ByVal fICPAverageMultipleFr ames As Integer, ByVal iICPAverageMultipleFr amesCount As Integer, ByVal miAdditionalTimeout As Integer, ByRef IHCall2AcqControl As IHCall2AcqControl) pCreateFrame(ByVal iBits As Integer, ByVal fSeqFrame As Integer, ByVal iNrSeqFrames As Integer) pfGrbCopyFBToBuffer		
Sub	As Integer, ByVal IBuffer16Handle As Long) pAcqGrbStartTrigSeqS nap(ByVal fICPAverageMultipleFr ames As Integer, ByVal iICPAverageMultipleFr amesCount As Integer, ByVal miAdditionalTimeout As Integer, ByRef IHCall2AcqControl As IHCall2AcqControl) pCreateFrame(ByVal iBits As Integer, ByVal fSeqFrame As Integer, ByVal iNrSeqFrames As Integer) pfGrbCopyFBToBuffer (ByVal lpvBufferArea		Creates a frame on the frame grabber
Sub	As Integer, ByVal IBuffer16Handle As Long) pAcqGrbStartTrigSeqS nap(ByVal fICPAverageMultipleFr ames As Integer, ByVal iICPAverageMultipleFr amesCount As Integer, ByVal miAdditionalTimeout As Integer, ByRef IHCall2AcqControl As IHCall2AcqControl) pCreateFrame(ByVal iBits As Integer, ByVal fSeqFrame As Integer, ByVal iNrSeqFrames As Integer) pfGrbCopyFBToBuffer (ByVal lpvBufferArea As Long, ByRef		Creates a frame on the frame grabber
Sub	As Integer, ByVal IBuffer16Handle As Long) pAcqGrbStartTrigSeqS nap(ByVal fICPAverageMultipleFr ames As Integer, ByVal iICPAverageMultipleFr amesCount As Integer, ByVal miAdditionalTimeout As Integer, ByRef IHCall2AcqControl As IHCall2AcqControl) pCreateFrame(ByVal iBits As Integer, ByVal fSeqFrame As Integer, ByVal iNrSeqFrames As Integer) pfGrbCopyFBToBuffer (ByVal lpvBufferArea As Long, ByRef areBufferiX As Integer,		Creates a frame on the frame grabber
Sub	As Integer, ByVal IBuffer16Handle As Long) pAcqGrbStartTrigSeqS nap(ByVal fICPAverageMultipleFr ames As Integer, ByVal iICPAverageMultipleFr amesCount As Integer, ByVal miAdditionalTimeout As Integer, ByRef IHCall2AcqControl As IHCall2AcqControl) pCreateFrame(ByVal iBits As Integer, ByVal fSeqFrame As Integer, ByVal iNrSeqFrames As Integer) pfGrbCopyFBToBuffer (ByVal lpvBufferArea As Long, ByRef areBufferiX As Integer, ByRef areBufferiY As		Creates a frame on the frame grabber
Sub	As Integer, ByVal IBuffer16Handle As Long) pAcqGrbStartTrigSeqS nap(ByVal fICPAverageMultipleFr ames As Integer, ByVal iICPAverageMultipleFr amesCount As Integer, ByVal miAdditionalTimeout As Integer, ByRef IHCall2AcqControl As IHCall2AcqControl) pCreateFrame(ByVal iBits As Integer, ByVal fSeqFrame As Integer, ByVal iNrSeqFrames As Integer) pfGrbCopyFBToBuffer (ByVal lpvBufferArea As Long, ByRef areBufferiX As Integer, ByRef areBufferiY As Integer, ByRef		Creates a frame on the frame grabber
Sub	As Integer, ByVal IBuffer16Handle As Long) pAcqGrbStartTrigSeqS nap(ByVal fICPAverageMultipleFr ames As Integer, ByVal iICPAverageMultipleFr amesCount As Integer, ByVal miAdditionalTimeout As Integer, ByRef IHCall2AcqControl As IHCall2AcqControl) pCreateFrame(ByVal iBits As Integer, ByVal fSeqFrame As Integer, ByVal iNrSeqFrames As Integer) pfGrbCopyFBToBuffer (ByVal lpvBufferArea As Long, ByRef areBufferiX As Integer, ByRef areBufferiY As Integer, ByRef areBufferiDX As		Creates a frame on the frame grabber
Sub	As Integer, ByVal IBuffer16Handle As Long) pAcqGrbStartTrigSeqS nap(ByVal fICPAverageMultipleFr ames As Integer, ByVal iICPAverageMultipleFr amesCount As Integer, ByVal miAdditionalTimeout As Integer, ByRef IHCall2AcqControl As IHCall2AcqControl) pCreateFrame(ByVal iBits As Integer, ByVal fSeqFrame As Integer, ByVal iNrSeqFrames As Integer) pfGrbCopyFBToBuffer (ByVal lpvBufferArea As Long, ByRef areBufferiX As Integer, ByRef areBufferiY As Integer, ByRef areBufferiDX As Integer, ByRef		Creates a frame on the frame grabber
Sub	As Integer, ByVal IBuffer16Handle As Long) pAcqGrbStartTrigSeqS nap(ByVal fICPAverageMultipleFr ames As Integer, ByVal iICPAverageMultipleFr amesCount As Integer, ByVal miAdditionalTimeout As Integer, ByRef IHCall2AcqControl As IHCall2AcqControl) pCreateFrame(ByVal iBits As Integer, ByVal iBits As Integer, ByVal iFseqFrame As Integer, ByVal iNrSeqFrames As Integer) pfGrbCopyFBToBuffer (ByVal lpvBufferArea As Long, ByRef areBufferiX As Integer, ByRef areBufferiY As Integer, ByRef areBufferiDX As Integer, ByRef areBufferiDX As Integer, ByRef areBufferiDY As		Creates a frame on the frame grabber
Sub	As Integer, ByVal IBuffer16Handle As Long) pAcqGrbStartTrigSeqS nap(ByVal fICPAverageMultipleFr ames As Integer, ByVal iICPAverageMultipleFr amesCount As Integer, ByVal miAdditionalTimeout As Integer, ByRef IHCall2AcqControl As IHCall2AcqControl) pCreateFrame(ByVal iBits As Integer, ByVal iBits As Integer, ByVal iBits As Integer, ByVal iNrSeqFrames As Integer) pfGrbCopyFBToBuffer (ByVal lpvBufferArea As Long, ByRef areBufferiX As Integer, ByRef areBufferiY As Integer, ByRef areBufferiDX As Integer, ByRef areBufferiDY As Integer, ByRef		Creates a frame on the frame grabber
Sub	As Integer, ByVal IBuffer16Handle As Long) pAcqGrbStartTrigSeqS nap(ByVal fICPAverageMultipleFr ames As Integer, ByVal iICPAverageMultipleFr amesCount As Integer, ByVal miAdditionalTimeout As Integer, ByRef IHCall2AcqControl As IHCall2AcqControl) pCreateFrame(ByVal iBits As Integer, ByVal fSeqFrame As Integer, ByVal iNrSeqFrames As Integer) pfGrbCopyFBToBuffer (ByVal lpvBufferArea As Long, ByRef areBufferiX As Integer, ByRef areBufferiY As Integer, ByRef areBufferiDX As Integer, ByRef areBufferiDY As Integer, ByRef iBufferBytesPerPixel		Creates a frame on the frame grabber
Sub	As Integer, ByVal IBuffer16Handle As Long) pAcqGrbStartTrigSeqS nap(ByVal fICPAverageMultipleFr ames As Integer, ByVal iICPAverageMultipleFr amesCount As Integer, ByVal miAdditionalTimeout As Integer, ByRef IHCall2AcqControl As IHCall2AcqControl) pCreateFrame(ByVal iBits As Integer, ByVal fSeqFrame As Integer, ByVal iNrSeqFrames As Integer) pfGrbCopyFBToBuffer (ByVal lpvBufferArea As Long, ByRef areBufferiX As Integer, ByRef areBufferiY As Integer, ByRef areBufferiDX As Integer, ByRef areBufferiDY As Integer, ByRef iBufferBytesPerPixel As Integer)		Creates a frame on the frame grabber Copies the content of the frame buffer into a computers memory buffer
Sub	As Integer, ByVal IBuffer16Handle As Long) pAcqGrbStartTrigSeqS nap(ByVal fICPAverageMultipleFr ames As Integer, ByVal iICPAverageMultipleFr amesCount As Integer, ByVal miAdditionalTimeout As Integer, ByRef IHCall2AcqControl As IHCall2AcqControl) pCreateFrame(ByVal iBits As Integer, ByVal iBits As Integer, ByVal fSeqFrame As Integer, ByVal iNrSeqFrames As Integer) pfGrbCopyFBToBuffer (ByVal lpvBufferArea As Long, ByRef areBufferiX As Integer, ByRef areBufferiY As Integer, ByRef areBufferiDX As Integer, ByRef areBufferiDY As Integer, ByRef iBufferBytesPerPixel As Integer) pGetVideoCameraInfo(Creates a frame on the frame grabber
Sub	As Integer, ByVal IBuffer16Handle As Long) pAcqGrbStartTrigSeqS nap(ByVal fICPAverageMultipleFr ames As Integer, ByVal iICPAverageMultipleFr ames Count As Integer, ByVal miAdditionalTimeout As Integer, ByRef IHCall2AcqControl As IHCall2AcqControl) pCreateFrame(ByVal iBits As Integer, ByVal fSeqFrame As Integer, ByVal iNrSeqFrames As Integer) pfGrbCopyFBToBuffer (ByVal lpvBufferArea As Long, ByRef areBufferiX As Integer, ByRef areBufferiY As Integer, ByRef areBufferiDX As Integer, ByRef areBufferiDY As Integer, ByRef iBufferBytesPerPixel As Integer) pGetVideoCameraInfo(ByRef iCameraDX As		Creates a frame on the frame grabber Copies the content of the frame buffer into a computers memory buffer
Sub	As Integer, ByVal IBuffer16Handle As Long) pAcqGrbStartTrigSeqS nap(ByVal fICPAverageMultipleFr ames As Integer, ByVal iICPAverageMultipleFr ames Count As Integer, ByVal miAdditionalTimeout As Integer, ByRef IHCall2AcqControl As IHCall2AcqControl) pCreateFrame(ByVal iBits As Integer, ByVal fSeqFrame As Integer, ByVal iNrSeqFrames As Integer) pfGrbCopyFBToBuffer (ByVal lpvBufferArea As Long, ByRef areBufferiX As Integer, ByRef areBufferiY As Integer, ByRef areBufferiDX As Integer, ByRef integer, ByRef integer, ByRef integer, ByRef integer, ByRef iBufferBytesPerPixel As Integer) pGetVideoCameraInfo(ByRef iCameraDX As Integer, ByRef		Creates a frame on the frame grabber Copies the content of the frame buffer into a computers memory buffer
Sub	As Integer, ByVal IBuffer16Handle As Long) pAcqGrbStartTrigSeqS nap(ByVal fICPAverageMultipleFr ames As Integer, ByVal iICPAverageMultipleFr ames Count As Integer, ByVal miAdditionalTimeout As Integer, ByRef IHCall2AcqControl As IHCall2AcqControl) pCreateFrame(ByVal iBits As Integer, ByVal fSeqFrame As Integer, ByVal iNrSeqFrames As Integer) pfGrbCopyFBToBuffer (ByVal lpvBufferArea As Long, ByRef areBufferiX As Integer, ByRef areBufferiY As Integer, ByRef areBufferiDX As Integer, ByRef areBufferiDY As Integer, ByRef iBufferBytesPerPixel As Integer) pGetVideoCameraInfo(ByRef iCameraDX As		Creates a frame on the frame grabber Copies the content of the frame buffer into a computers memory buffer
Sub	As Integer, ByVal IBuffer16Handle As Long) pAcqGrbStartTrigSeqS nap(ByVal fICPAverageMultipleFr ames As Integer, ByVal iICPAverageMultipleFr ames Count As Integer, ByVal miAdditionalTimeout As Integer, ByRef IHCall2AcqControl As IHCall2AcqControl) pCreateFrame(ByVal iBits As Integer, ByVal fSeqFrame As Integer, ByVal iNrSeqFrames As Integer) pfGrbCopyFBToBuffer (ByVal lpvBufferArea As Long, ByRef areBufferiX As Integer, ByRef areBufferiY As Integer, ByRef areBufferiDX As Integer, ByRef integer, ByRef integer, ByRef integer, ByRef integer, ByRef iBufferBytesPerPixel As Integer) pGetVideoCameraInfo(ByRef iCameraDX As Integer, ByRef		Creates a frame on the frame grabber Copies the content of the frame buffer into a computers memory buffer
Sub	As Integer, ByVal IBuffer16Handle As Long) pAcqGrbStartTrigSeqS nap(ByVal fICPAverageMultipleFr ames As Integer, ByVal iICPAverageMultipleFr amesCount As Integer, ByVal miAdditionalTimeout As Integer, ByRef IHCall2AcqControl As IHCall2AcqControl) pCreateFrame(ByVal iBits As Integer, ByVal iSeqFrame As Integer, ByVal iNrSeqFrames As Integer) pfGrbCopyFBToBuffer (ByVal lpvBufferArea As Long, ByRef areBufferiX As Integer, ByRef areBufferiY As Integer, ByRef areBufferiDX As Integer, ByRef areBufferiDY As Integer, ByRef iBufferBytesPerPixel As Integer) pGetVideoCameraInfo(ByRef iCameraDX As Integer, ByRef icameraDY As Integer, ByRef iCameraDY As Integer, ByRef iCameraDY As Integer, ByRef		Creates a frame on the frame grabber Copies the content of the frame buffer into a computers memory buffer
Sub	As Integer, ByVal IBuffer16Handle As Long) pAcqGrbStartTrigSeqS nap(ByVal fICPAverageMultipleFr ames As Integer, ByVal iICPAverageMultipleFr amesCount As Integer, ByVal miAdditionalTimeout As Integer, ByRef IHCall2AcqControl As IHCall2AcqControl) pCreateFrame(ByVal iBits As Integer, ByVal iBits As Integer, ByRef areBufferiDX As Integer, ByRef areBufferiDY As Integer, ByRef iBufferBytesPerPixel As Integer) pGetVideoCameraInfo(ByRef iCameraDX As Integer, ByRef iCameraDY As Integer, ByRef iCameraDY As Integer, ByRef itVideoFrameTime As		Creates a frame on the frame grabber Copies the content of the frame buffer into a computers memory buffer
Sub	As Integer, ByVal IBuffer16Handle As Long) pAcqGrbStartTrigSeqS nap(ByVal fICPAverageMultipleFr ames As Integer, ByVal iICPAverageMultipleFr amesCount As Integer, ByVal miAdditionalTimeout As Integer, ByRef IHCall2AcqControl As IHCall2AcqControl) pCreateFrame(ByVal iBits As Integer, ByVal iSeqFrame As Integer, ByVal iNrSeqFrames As Integer) pfGrbCopyFBToBuffer (ByVal lpvBufferArea As Long, ByRef areBufferiX As Integer, ByRef areBufferiY As Integer, ByRef areBufferiDX As Integer, ByRef areBufferiDY As Integer, ByRef iBufferBytesPerPixel As Integer) pGetVideoCameraInfo(ByRef iCameraDX As Integer, ByRef icameraDY As Integer, ByRef iCameraDY As Integer, ByRef iCameraDY As Integer, ByRef		Creates a frame on the frame grabber Copies the content of the frame buffer into a computers memory buffer

	hOff%, ByRef hAct%,		
	ByRef vOff%, ByRef		
	vAct%)		
Sub	pGrbGetImgAttrib(ByR		Gets the attributes of the image in frame grabber
	ef areSourceiX As		
	Integer, ByRef		
	areSourceiY As Integer,		
	ByRef areSourceiDX		
	As Integer, ByRef		
	areSourceiDY As		
	Integer, ByRef		
	iBytesPerPixel As		
	Integer)		
Sub	pGrbGetScanArea(ByV		Get the scan area
	al iCameraDX As		
	Integer, ByVal		
	iCameraDY As Integer,		
	ByRef pntDummyX As		
	Integer, ByRef		
	pntDummyY As		
	Integer, ByRef		
	pntCamWidthX As Integer, ByRef		
	pntCamWidthY As		
	Integer, ByRef		
	areGRBScaniX As		
	Integer, ByRef		
	areGRBScaniY As		
	Integer, ByRef		
	areGRBScaniDX As		
	Integer, ByRef		
	areGRBScaniDY As		
	Integer, ByRef		
	areValidIMGiX As		
	Integer, ByRef		
	areValidIMGiY As		
	Integer, ByRef		
	areValidIMGiDX As		
	Integer, ByRef		
	areValidIMGiDY As		
	Integer, ByRef		
	pntOrigFBX As Integer,		
	ByRef pntOrigFBY As		
	Integer)		
Sub	pGrbGetWindowForSu		Get the window generator hardware parameters for a given subarrea
	bArea(ByVal iX%,		
	ByVal iY%, ByVal		
	iDX%, ByVal iDY%,		
	ByRef hOff%, ByRef		
	hAct%, ByRef vOff%,		
	ByRef vAct%, ByRef		
~ 1	sError\$)		
Sub	pGrbSetDefaultSettings		Set default settings
	(ByVal iFrameDX As		
	Integer, ByVal		
Sub	iFrameDY As Integer)		West until and of image readout
Suu	pGrbWaitEndOfImgRe		Wait unti end of image readout
	adout(ByVal ftTimeout		
Cub	As Single) pGrbWriteReducedLin		Write a linear LUT which reduces the image to 0 Lit
Sub			Write a linear LUT which reduces the image to 8 bit
	LUT(ByVal iDat As		
	Integer, ByVal		
Cych	iThreshold As Integer)	Long, ByRef	Evacutes CatCa assumes for all local data
Sub	pRSeqDoAmvsCatcoSe quence(ByVal fWrap	dbRSeqStart	Executes CatCo sequence for video module
	As Integer, ByRef	Time As	
	iErrors As Integer,	Double,	
	ByRef	ByRef	
	HEdnSeqCurrentSampl	sISeqTime()	
	e As HEditNumber,	As String,	
	ByRef lRSeqPtr()	ByVal	
	Dynor insequal)	fEnableStopi	
		nSequence	
		As Integer,	
		ByVal	
		iNrSamples	
		As Integer,	
	1		1

		ByRef IHCall2Acq Control As IHCall2Acq Control)	
Sub	pSetWindow(ByVal hOff%, ByVal hAct%, ByVal vOff%, ByVal vAct%)		Sets the window generator harware parameters

HUtils:

Modified:		
Event	GeneralMessage(ByVal	
	sMessage As String)	

HAsyncCommand: Modified:

Event	AfterCommand(ByVal	Event which is raised after the execution of an asynchronous command
	sCommand As String)	·
Event	BeforeCommand(ByVa	Event which is raised before the execution of an asynchronous
	1 sCommand As String)	command
Event	DoCommand(ByVal	Event which is raised to execute an asynchronous command
	sCommand As String,	
	ByVal vParam0 As	
	Variant, ByVal	
	vParam1 As Variant,	
	ByVal vParam2 As	
	Variant, ByVal	
	vParam3 As Variant,	
	ByVal vParam4 As	
	Variant)	

HMsgBox:

New:

Event	MsgBox(ByVal iID As	Event which is raised in remote control mode when the pfNoDialogs
	Integer, ByVal sPrompt	property is set to true instead of showing a messagebox. This event can
	As String, ByVal sTitle	be use for the client program to react on such messages
	As String, ByVal Style	
	As Integer, ByVal	
	Buttons As Integer,	
	ByRef default As	
	Integer)	

Removed: MsgBoxResult

HError: Removed: pfDlgHasUserIF pfEndUserIFEvent pf Start User IF Event

HCheck4Array:

Modified:

Event	ChangeEnabled(ByVal	Event which is raised when the pfEnabled property changes
	Index As Integer)	
Event	ChangeValue(ByVal	Event which is raised when the pfValue property changes
	Index As Integer)	
Event	ChangeVisible(ByVal	Event which is raised when the pfVisible property changes
	Index As Integer)	

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HDisp: Removed: pfDlgHasUserIF

pfEndUserIFEvent pfStartUserIFEvent

HEditNumber: Removed: pfDlgHasUserIF

pfEndUserIFEvent pfStartUserIFEvent

HEditNumber4Array:

Modified:

Event	ChangeEnabled(ByVal	Event which is raised when the pfEnabled property changes
	Index As Integer)	
Event	ChangeLimits(ByVal	
	Index As Integer)	
Event	ChangeValue(ByVal	Event which is raised when the pfValue property changes
	Index As Integer)	
Event	ChangeVisible(ByVal	Event which is raised when the pfVisible property changes
	Index As Integer)	

HEditString:

Removed:

pfDlgHasUserIF

pf End User IF Event

pfStartUserIFEvent

HEntry:

New:

Read/write property	pftValue()	Single	Sets or returns a numerical value associated to the entry type. Time
			values in ms, numerical values or entry indexes are used depending on
			the EntryType

Removed:

pfDlgHasUserIF

pfEndUserIFEvent

pfStartUserIFEvent

HEntry4Array:

Modified:

mounited.		
Event	ChangeEnabled(ByVal	Event which is raised when the pfEnabled property changes
	Index As Integer)	
Event	ChangeLimits(ByVal	
	Index As Integer)	
Event	ChangeValue(ByVal	Event which is raised when the pfValue property changes
	Index As Integer)	
Event	ChangeVisible(ByVal	Event which is raised when the pfVisible property changes
	Index As Integer)	

HFrame4Array:

Modified:

Event	ChangeEnabled()	Event which is raised when the pfEnabled property changes
Event	ChangeVisible()	Event which is raised when the pfVisible property changes

HMenu:

Removed:

pfDlgHasUserIF

pfEndUserIFEvent

pfStartUserIFEvent

HProgress:

Removed:

pfDlgHasUserIF

pf End User IF Event

pfStartUserIFEvent

HProgress4Array

Modified:

Event	ChangePercent()	Event which is raised when the pfPercent property changes
Event	ChangeVisible()	Event which is raised when the pfVisible property changes

HRadios:

Modified

Event	ChangeRadioEnabled(B yVal iRadio As Integer)	Event which is raised when the pfRadioEnabled property changes
Event	ChangeRadioVisible(B	Event which is raised when the pfRadioVisible property changes
	yVal iRadio As Integer)	

Removed: pfDlgHasUserIF pfEndUserIFEvent pfStartUserIFEvent

HRadios4Array

Modified:

Event	ChangeEnabled(ByVal	Event which is raised when the pfEnabled property changes
	Index As Integer)	
Event	ChangeNoEntries(ByV	Event which is raised when the piNoEntries property changes
	al Index As Integer)	
Event	ChangeRadio(ByVal	
	Index As Integer)	
Event	ChangeRadioEnabled(B	Event which is raised when the pfRadioEnabled property changes
	yVal iIndex As Integer,	
	ByVal Index As	
	Integer)	
Event	ChangeRadioVisible(B	Event which is raised when the pfRadioVisible property changes
	yVal iIndex As Integer,	
	ByVal Index As	
	Integer)	
Event	ChangeVisible(ByVal	Event which is raised when the pfVisible property changes
	Index As Integer)	

HTap:

Modified:

Event	ChangeTabEnabled(By Val iTab As Integer)	Event which is raised when the pfTabEnabled property changes
Event	ChangeTabVisible(ByV al iTab As Integer)	Event which is raised when the pfTabVisible property changes

Removed: pfDlgHasUserIF pfEndUserIFEvent pfStartUserIFEvent

HLut:

Modified:

Event	AutoLUT(ByRef	Event which is raised when the user presses the AutoLUT key
	Cancel As Integer)	
Event	CursorsChanged(ByVal	Event which is raised when either of the two LUt cursors have been
	LowerCursor As Long,	changed
	ByVal UpperCursor As	
	Long)	
Event	LimitsChanged(ByVal	Event which is raised when the the LUT limits changes
	iSize As Integer)	
Event	LowerCursorChanged(Event which is raised when the lower cursor changes
	ByVal LowerCursor As	
	Long)	
Event	Resize()	Event which is raised when the LUT control is resized
Event	UpperCursorChanged(Event which is raised when the upper cursor changes
	ByVal UpperCursor As	
	Long)	

Removed:

pfDlgHasUserIF pfEndUserIFEvent pfStartUserIFEvent

HImageArea: Removed: pfDlgHasUserIF pfEndUserIFEvent pfStartUserIFEvent

HEditString4Array: Modified:

Event	ChangeEnabled(ByVal Index As Integer)	Event which is raised when the pfEnabled property changes
Event	ChangeText(ByVal Index As Integer)	Event which is raised when the psText property changes
Event	ChangeVisible(ByVal Index As Integer)	Event which is raised when the pfVisible property changes

IHCall2Appl: Modified:

Sub	GetImageScaling(ByVa	Assigns image scaling information to the current image according the
	1 iImg As Integer)	current system scaling
Sub	GetImageStatus(ByVal	Assigns image status information to the current image according the
	iImg As Integer)	current status

IHCall2Cam: Modified:

Sub	RestoreAcqControls(By Val iAcqMode As Integer)	Restore the live mode controls to its initial values (Which had been present before SetLiveControlsToPC)
Sub	SetAcqControlsToPC(B yVal iAcqMode As Integer)	Sets the live mode controls to the values which exists in photon counting mode
Sub	SetClearFBOnStart(By Val fClearFBOnStart As Integer, ByVal iAcqMode As Integer)	

New object: IHCall2MC All events properties and methods are new

ProfileScalingData: Modified:

nfCreateDiffPovnomial	Single	Create differential polynomial
		Create differential polynomial
micger, byker nedell()		
·		
·	-	
·		
·		
·		
·		
		Create integral polynomial
Integer, ByRef ftCoeff()		
·		
·		
·		
·		
·		
·	Variant) As	
	Integer	
pfGetArrayOfValues(B	Single,	Returns an array of values
yRef ftArray()	ByVal	
·	iEntries As	
·	Integer,	
	Optional	
	sError As	
!	Variant) As	
	Integer	
pfReadScalingTable(By	Integer	Reads a scaling table from file
Val sFileName As		-
String, ByVal sOffset		
	yRef ftArray() pfReadScalingTable(By Val sFileName As	(ByVal iOrder As Integer, ByRef ftCoeff() Integer, ByRef ftCoeff() Integer, ByVal sUnit As String, Optional sError As Variant) As Integer pfCreateIntegPoynomia I(ByVal iOrder As Integer pfCreateIntegPoynomia I(ByVal iOrder As Integer ByVal iNrValidCha nnels As Integer ByVal iNrValidCha nnels As Integer ByVal sUnit As String, Optional sError As Variant) As Integer pfGetArrayOfValues(B yRef ftArray() pfReadScalingTable(By Val sFileName As String, ByVal Integer pfReadScalingTable(By Val sFileName As String, ByVal fCheck As Integer, ByVal sUnit As String, ByVal fCheck As Integer, ByVal sUnit As String, ByVal sUnit As String, ByVal sUnit As String, ByVal sUnit As String,

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	varCheckFromChannel As Variant)		
Function	pfSetLinearData(ByVal ftScale As Single, ByVal sUnit As String, Optional sError As Variant)	Integer	Sets linear scaling
Function	pfSetScaling(ByRef psd As HProfileScalingData, Optional sError As Variant)		Sets the scaling data of this object identical to the data of the specified object
Function	pfSetTableData(ByRef ftTable()	Single, ByVal iEntries As Integer, ByVal sUnit As String, Optional sError As Variant, Optional varCheckFro mChannel As Variant) As Integer	Sets table scaling
Function	pftProfileLocationFT(B yVal fScaled As Integer, ByVal ft As Single)	Single	Returns the profile location (floating point)
Function	pfValueExist(ByVal iEntry As Integer)	Integer	Returns a flag whether or not the value at the specified location exist
Function	pSaveScalingFile(ByVa l sFile As String, Optional sError As Variant)	Integer	Saves the scaling data to file
Sub	pGetMinAndMax(ByV al iLower As Integer, ByVal iUpper As Integer, ByRef ftMin As Single, ByRef ftMax As Single)		gets minimum and maximum value
Sub	pLocationToIndex(ByV al ftLocation As Single, ByRef ftIndex As Single, ByVal fDisplayScaled As Integer)		Returns the index corresponding to the given location

HPRFParametersData:

Modified:

Read/write property	pftData(ByVal iData As Integer, Optional sError As Variant)	Single	Returns a single data value
Function	pfGetArrayOfData(ByR ef ftData()	Single, ByVal iNrData As Integer, Optional sError As Variant) As Integer	Returns an array of data
Function	pfLoadPRF(ByRef sCompleteFile As String, ByVal fInquireFileName As Integer, ByRef sMessage As String, ByVal fReadData As Integer)	Integer	Loads a profile from file
Function	pfSearchValue(ByVal fScaled As Integer, ByVal iStartIndex As Integer, ByVal iEndIndex As Integer, ByVal iStep As Integer,	Integer	Searches a value within a profile

	ByVal ftSearchVal As Single, ByRef ftScaledValue As Single)		
Function	pftProfileLocationFT(B yVal fScaled As Integer, ByVal ft As Single)	Single	Returns the location within a profile (floating point)
Function	pftProfileLocationINT(ByVal fScaled As Integer, ByVal i As Integer)	Single	Returns the location within a profile (integer)
Sub	pCalcProfileDef(ByVal fDisplayScaled As Integer)		Calculate profile default values
Sub	pFitGetPDWDefault(B yVal fAbs As Integer)		Get the profile display window
Sub	pfSetHPRFParameters Data(ByRef ppd As HPRFParametersData)		Set all data associated with this profile to identical to the specified profile
Sub	pGetMinAndMax(ByV al iLower As Integer, ByVal iUpper As Integer, ByRef ftMin As Single, ByRef ftMax As Single)		Returns minimum and maximum values
Sub	pGetSingleMinMaxPos (ByVal iFirst As Integer, ByVal iLast As Integer, ByRef iMinPos As Integer, ByRef iMaxPos As Integer)		get the minimum and maximum positions
Sub	pProfileLocationToVal ue(ByVal ftLocation As Single, ByRef iIndex As Integer, ByRef ftIndex As Single, ByRef ftValue As Single, ByVal fDisplayScaled As Integer)		Returns the Value at a specified location

Migrating from Version 6.2 to 6.3

Outline

The ActiveX components from version 6.3 are not compatible to those of version 6.2. The IF is changed due to further requirements. The filenames are different for both versions and both versions can be used at the same computer. A client program designed for version 6.2 will still run with the component of version 6.2 (If this version has not been deleted or overwritten of course). If you want to use the component of version 6.3 with a client designed for version 6.2 you have to recompile your application using a reference to the component of version 6.3. In addition if your client program uses functions methods or properties which are removed in version 6.3 you have to substitute them by other functions (Normally they are removed because they are replaced by functions handling the topic under question in a better way).

Generally the following changements have been made:

- New interface objects in the HiInitHi and HiInitTa main object dealing with DCam cameras.
- New interface objects in the HAppHiPic and HAppHPDTA main objects: pHDCam, pHLicence and pHMenMainDefectPixelCorrectionSetup.

- Modified variable type for all variables describing sequence indexes and numbers from integer to long.
- New interface objects in the HImages main object dealing with Auto LUT and FWHM display.
- New event in HAcq and HSequence: CameraIsStarted. This event defines the time when the camera has started to collect light.
- New interface objects in the HC474295 main object dealing with temperature control.
- New interface objects in the HAcq mian object dealing with defect pixel correction.
- Some properties of the I/F objects have now optional parameters to facilitate the handling of these properties. The optional parameters are: Optional DoEvent As Variant, Optional IgnoreDisable As Variant, Optional NoError As Integer. The DoEvent Parameter can have the three values DoEventOnChange = 0 (Default), DoEventAlways = 1, DoEventNever = 2. If DoEventOnChange is specified the event is raised when the value changes. If DoEventAlways is specified the event is always raised when the value is set. If DoEventNever is specified the event is not raised. If IgnoreDisable = TRUE the value is changed even if the I/F object is disabled (Be careful with this option, normally there is a reason why the I/F object is disabled). If IgnoreDisable = FALSE (Default) is specified the value is only changed when the I/F object is available. If NoError = TRUE is specified then the no error is raised even if an error occurs. If NoError = FALSE (Default) then an error is raised if the I/F object is not available or if the a wrong value is specified. You have to handle such error otherwise your program will abort.
- New property piAutoOption in the HLut I/F object: If piAutoOption=2 then the lower LUT cursor will be set to Zero in the case of AutoLUT. if piAutoOption=0 then the lower LUT cursor will be set according to the histogram. Do not use this feature, use the option pfOptionsZeroLower within the HImages object instead.

Details

The following is a list of modification of the IF in detail:

HInitHi New:

pHDisInitBus()	HDisp	
pHDisInitCameraI	HDisp	
D()		
pHDisInitCamera	HDisp	
Version()		
pHDisInitDCamA	HDisp	
PIVersion()		
pHDisInitDriverVe	HDisp	
rsion()		
pHDisInitModel()	HDisp	
pHDisInitModule	HDisp	
Version()		
pHEdnInitOrcaHR	HEditNu	
ComPort()	mber	
pHEntInitModelNr	HEntry	
()		
pHFraInitDCamA	HFrame	
PI()		
pHRadInitCCDCa	HRadios	
meraAccess()		
	pHDisInitCameraI D() pHDisInitCamera Version() pHDisInitDCamA PIVersion() pHDisInitDriverVe rsion() pHDisInitModel() pHDisInitModule Version() pHEdnInitOrcaHR ComPort() pHEntInitModelNr () pHFraInitDCamA PI() pHRadInitCCDCa	pHDisInitCameral D() pHDisInitCamera HDisp Version() pHDisInitDCamA PIVersion() pHDisInitDriverVe rsion() pHDisInitModel() HDisp pHDisInitModule HDisp version() pHEdnInitOrcaHR HEditNu mber pHEntInitModelNr HEntry () pHFraInitDCamA PI() pHRadInitCCDCa HRadios

HAppHiPic

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Read only property	pHDCam()	HDCam	
Read only property	pHLicence()	HLicence	
Read only property	pHMenMainDefec	HMenu	
	tPixelCorrectionSe		
	tup()		

HInitTA

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ΤJ	u	w	٠

Read only property	pHDisCCDSetBus	HDisp	
Read only property	pHDisCCDSetCa meraID()	HDisp	
Read only property	pHDisCCDSetCa meraVersion()	HDisp	
Read only property	pHDisCCDSetDCa mAPIVersion()	HDisp	
Read only property	pHDisCCDSetDriv erVersion()	HDisp	
Read only property	pHDisCCDSetMo del()	HDisp	
Read only property	pHDisCCDSetMo duleVersion()	HDisp	
Read only property	pHDisCCDSetVen dor()	HDisp	
Read only property	pHEdnCCDSetOrc aHRComPort()	HEditNu mber	
Read only property	pHEntCCDSetMo delNr()	HEntry	
Read only property	pHExternalDevice s()	HExternal Devices	
Read only property	pHFraCCDSetDCa mAPI()	HFrame	

HAppHPDTA New:

Read only property	pHDCam()	HDCam	
Read only property	pHMenMainDefec	HMenu	
	tPixelCorrectionSe		
	tup()		

Modified:

Sub	pUserFunction(By	Executes User Function. This function is kept for
	Val iIndex As	compatibility reason. It is no longer recommended to use
	Integer, ByVal	this function
	lCycleIndex As	
	Long, ByRef sOut	
	As String, ByVal	
	fGetMemoryPrope	
	rties As Integer)	

ByVal iCycle as integer -> ByVal iCycleIndex As Long

HImages: New:

11011.		
Read only property	pHChkOptAutoLut	HCheck
	InROI()	
Read only property	pHChkOptZeroLo	HCheck
	wer()	
Read/write property	pfOptionsAutoLutI	Integer
	nROI()	

Read/write property	pfOptionsDisplayF WHM()	Integer	
Read/write property	pfOptionsZeroLow er()	Integer	
Read/write property	piOptionFWHMN oOfDigits()	Integer	
Read/write property	piOptionFWHMSi ze()	Integer	
Read/write property	plOptionFWHMC olor()	Long	
HSequence			
New:			
Event	CameraIsStarted()		
Modified:			
Event	SeqSingleAcqEnde		
	d(ByVal lIndex As Long)		
ByVal iIndex As into	eger -> ByVal lIndex	As Long	1
HC474298			
New:	HOLIG C 1	IICI I	T
Read only property	pHChkSetupCoole r()	HCheck	
Read only property	pHDisSetupActual Temperature()	HDisp	
Read only property	pHDisSetupConfig uration()	HDisp	
Read only property	pHDisSetupVolGa in()	HDisp	
Read only property	pHDisSetupVolOff set()	HDisp	
Read only property	pHEdnSetupTarget Temperature()	HEditNu mber	
Read only property	pHFraSetupCamer aInfo()	HFrame	
Read only property	pHFraSetupTempe rature()	HFrame	
Read only property	pHRadSetupLight Mode()	HRadios	
Read only property	pHRadSetupShutte rAction()	HRadios	
Read only property	pHRadSetupTrigge rSource()	HRadios	
New Object: HDCan	· · · · · · · · · · · · · · · · · · ·		,
HExternalDevices			
New:	1	ı	
Read only property	pHEdnTrigSetExp osure()	HEditNu mber	
HExternalDevice			
New:			
Read only property	piNoOfUnknownP ar()	Integer	Returns the number of unknown parameters
	. "	•	•

HAcq New:

Event	CameraIsStarted()		
Read only property	pfOptionAutoBack	Integer	
Tiona only property	sub()	incgci	
Read only property	pHChkOpt32BitIn	HCheck	
Read only property	AI()	TICHECK	
Read only property	pHChkOptDefectC	HCheck	
Read only property	orrection()	пспеск	
D 1 1		HC	
Read only property	pHComDefPixCal	HComma	
	culateDefectPixels	nd	
	()		
Read only property	pHComDefPixClo	HComma	
	se()	nd	
Read only property	pHComDefPixGetI	HComma	
	mageDeadPixels()	nd	
Read only property	pHComDefPixGetI	HComma	
	mageHotPixels()	nd	
Read only property	pHComDefPixReC	HComma	
	alculateDeadPixels	nd	
	()		
Read only property	pHComDefPixReC	HComma	
	alculateHotPixels()	nd	
Read only property	pHComDefPixSav	HComma	
J F **F****J	eToINIFile()	nd	
Read only property	pHComOptGetDef	HComma	
property	ectPixelFile()	nd	
Read only property	pHDisDefPixAver	HDisp	
Read only property	ageDeadPixel()	TIDISP	
Read only property	pHDisDefPixAver	HDisp	
Keau only property	ageHotPixel()	пызр	
D - 1 - 1		IID'	
Read only property	pHDisDefPixNrDe	HDisp	
D 1 1	fectColumns()	****	
Read only property	pHDisDefPixNrDe	HDisp	
	fectLines()		
Read only property	pHDisDefPixNrDe	HDisp	
	fectPixels()		
Read only property	pHDisDefPixStand	HDisp	
	DevDeadPixel()		
Read only property	pHDisDefPixStand	HDisp	
	DevHotPixel()		
Read only property	pHDisDefPixStatu	HDisp	
	s()		
Read only property	pHEdnDefPixLine	HEditNu	
	ColumnsPercentag	mber	
	e()		
Read only property	pHEdnDefPixThre	HEditNu	
	sholdDeadLines()	mber	
Read only property	pHEdnDefPixThre	HEditNu	
Tions only property	sholdDeadPixels()	mber	
Read only property	pHEdnDefPixThre	HEditNu	
ixeau only property	sholdHotLines()	mber	
Read only property	pHEdnDefPixThre	HEditNu	
Read only property	*	mber	
Dood only many	sholdHotPixels()		
Read only property	pHEstDefPixImag	HEditStri	
D 1 . 1	eDeadPixel()	ng	
Read only property	pHEstDefPixImag	HEditStri	
	eHotPixel()	ng	
Read only property	pHEstOptDefectPi	HEditStri	
	xelFile()	ng	
Read only property	pHFraDefPixDead	HFrame	
	Pixels()		

Read only property	pHFraDefPixHotPi	HFrame	
	xels()		
Read only property	pHFraDefPixResul	HFrame	
	ts()		
Read only property	pHRadDefPixMeth	HRadios	
	od()		
Read only property	pHWinDefPixDlg(HWindow	
)		
Read/write property	pfOptionDefectCor	Integer	
	rection()		
Read/write property	pfStartImagesIndiv	Integer	
	idually()		
Read/write property	psOptionDefectPix	String	
	elFile()		
Sub	pUpdateCameraPa		
	rms()		

HGrb

New:

Function	Test()	
Sub	pSetHMsgBox(H	
	MsgBox As	
	HMsgBox)	

HCheck

Modified:

Read/write property	pfValue(Optional	Integer	Sets or returns the value of the object (true if checked
	DoEvent As		and false if unchecked)
	Variant, Optional		
	IgnoreDisable As		
	Variant, Optional		
	NoError As		
	Integer)		

Optional parameters added

HEditNumber:

Modified:

Read/write property	pvValue(Optional	Variant	Returns the value of the object
	DoEvent As		
	Variant, Optional		
	IgnoreDisable As		
	Variant, Optional		
	NoError As		
	Integer)		

Optional parameters added

HEditString

Tibutbuing			
Read/write property	psText(Optional	String	Sets or returns the text of the object
	DoEvent As		
	Variant, Optional		
	IgnoreDisable As		
	Variant, Optional		
	NoError As		
	Integer)		

Optional parameters added

HEntry

Read/write property	pftValue(Optional	Single	Sets or returns a numerical value associated to the entry

	DoEvent As Variant, Optional IgnoreDisable As Variant, Optional NoError As Integer)		type. Time values in ms, numerical values or entry indexes are used depending on the EntryType
Read/write property	piEntry(Optional DoEvent As Variant, Optional IgnoreDisable As Variant, Optional NoError As Integer)	Integer	Sets or returns the entry index (Entries are numbered from piEntry=0 to piNrEntries-1)
Read/write property	psKeyValue(Optio nal DoEvent As Variant, Optional IgnoreDisable As Variant, Optional NoError As Integer)	String	Sets or returns the key value of the object. This is a string value of the entry. When this value is set the all entries are searched whether the contain the specified string.

Optional parameters added

HRadios

Dand anles managements	and Donald a Emphalmat/D	Tutana	Determine a scale scale and interest in the same in the state of the
Read only property	pfRadioEnabled(B	Integer	Returns a value which specifies the enabled status of the
	yVal iRadio As		indicated radiobutton
	Integer, Optional		
	DoEvent As		
	Variant)		
Read only property	pfRadioVisible(By	Integer	Returns a value which specifies the enabled status if the
	Val iRadio As		indicated radiobutton
	Integer, Optional		
	DoEvent As		
	Variant)		
Read/write property	piRadio(Optional	Integer	Sets or returns the index of the currenly selected
	DoEvent As		radiobutton. It is numbered from (piRadio=0 to
	Variant, Optional		piNoEntries-1)
	IgnoreDisable As		
	Variant, Optional		
	NoError As		
	Integer)		
Read/write property	piValue(Optional	Integer	Returns the value which is associated with the currently
	DoEvent As		selected radiobutton
	Variant, Optional		
	IgnoreDisable As		
	Variant, Optional		
	NoError As		
	Integer)		
Read/write property	psKeyValue(Optio	String	Sets or returns the key value of the object. When this
	nal DoEvent As		value is set the radiobutton with the specified key value
	Variant, Optional		is selected
	IgnoreDisable As		
	Variant, Optional		
	NoError As		
	Integer)		
		L	l

Optional parameters added

HTab

Read only property	pfTabEnabled(By Val iTab As	Integer	Returns a value which specifies whether the specified HSingleTab object is enabled
	Integer, Optional DoEvent As		J

	Variant)		
Read only property	pfTabVisible(ByV al iTab As Integer, Optional DoEvent As Variant)	Integer	Returns a value which specifies whether the specified HSingleTab object is visible
Read/write property	piTab(Optional DoEvent As Variant, Optional IgnoreDisable As Variant, Optional NoError As Integer)	Integer	Sets or returns the index of the currently selected Tab
Read/write property	piValue(Optional DoEvent As Variant, Optional IgnoreDisable As Variant, Optional NoError As Integer)	Integer	Returns the value which is associated with the currently selected Tab
Read/write property	psKeyValue(Optio nal DoEvent As Variant, Optional IgnoreDisable As Variant, Optional NoError As Integer)	String	Sets or returns the key value of the object. When this value is set the Tab with the specified key value is selected

Optional parameters added

HLut

New:

|--|

IHCall2Appl Modified

Sub	GetImageStatus(B	Assigns image status information to the current image
	yVal iImg As	according the current status
	Integer, ByVal	
	fIncludeCameraSta	
	tus As Integer)	

Added fIncludeCameraStatus

IHCall2Exttrig

Modified:

Sub	SetupExtTrig(ByV	Setup external triggering
	al iMode As	
	Integer, ByVal	
	fPolarityPositiv As	
	Integer, ByVal	
	ftInterval As	
	Single)	

Added iMode, ftInterval

IH Call 2 LUT Control

New:

Sub	SetZeroLower(By	
	Val fZeroLower)	

IHCall2Sequence

Modified:

Function	fPSeqGetMask(By	Integer	Gets the mask string for the specified filename
	Val sFile As		

	String, ByRef sMask As String, ByRef lNr As Long, ByRef iPrf As Integer)	
Function	SeqGetCurrentSam Long ple()	Returns the current sample
Sub	SeqDisplaySample (ByVal lNr As Long)	Displays the specified sample
Sub	SeqSingleAcqEnde d(IC As Long)	
Sub	ValueExcludedSa mples(ByVal lExcludedSamples As Long)	Returns the number of excluded samples
Sub	ValueUndefinedSa mples(ByVal lUndefinedSample s As Long)	Returns the number of undefined samples

All references to the number of samples or sample index modified to long instead of integer

Appendix A: All Public Properties/Functions/Subs/Events

This is a complete listing of all public properties, functions, subs and events a client programmer can use. The same information is also available in the object catalog of Visual Basic 6.0 or similar development tools.

HInitHi

пшш			
Event	ApplicationCreate		Event which is raised when the Application is
	d(ByRef		successfully created. This event returns an object
	HAppHiPic As		reference to the HAppHipic object
	HAppHiPic)		
Event	ErrorDueToLicenc		Event which is raised when the application could not be
	e()		created due to missing licence
Event	ErrorDuringInit()		Event which is raised when the application could not be
Litera	Enoi Duringinit()		created due to an error during initialization
Event	InitCancel()		Event which is raised when the application was not
Event	InitCancci()		created because the creation has been cancelled by user
Essent	Massa as/DaVa1		
Event	Message(ByVal		Event which is raised to indicate processign steps during
	sMessage As		initialization
	String)		
Event	MsgBox(ByVal		Event which is raised in remote control mode when the
	iID As Integer,		pfNoDialogs is set to true instead of showing a
	ByVal sPrompt As		messagebox. This event can be use for the client program
	String, ByVal		to react on such messages
	sTitle As String,		
	ByVal Style As		
	Integer, ByVal		
	Buttons As Integer,		
	ByRef default As		
	Integer)		
Event	NoUserIFAllowed(Event which is raised to indicate that no user I/F is
)		allowed
Read only property	pfApplUserIF()	Integer	Retruns a flag which defines whether the Appliaction
The state of the s	rrr()		will run without User I/F (Default)
Read only property	pfInitStatus()	Integer	Returns a value indicating the current status of
read only property	primes tatus ()	integer	initialization. Possible values are defined in the
			enumeration InitStatus
Read only property	pfInitUserIF()	Integer	Returns a flag which defines whether the Initialisation
Read only property	printe serii ()	Integer	will run without User I/F (Default)
Read only property	pHAppHipic()	HAppHiP	Returns an object reference to the HAppHiPic object if
Read only property	рп Аррпіріс()		successfully created
D 1 1		ic HComma	
Read only property	pHComInitCancel(Returns an object reference to the HCommand object
D 1 1)	nd	associated with the init dialogs 'Cancel' pushbutton
Read only property	pHComInitGetCon	HComma	Returns an object reference to the HCommand object
	figFile()	nd	associated with the init dialogs 'Get Config File'
			pushbutton
Read only property	pHComInitOK()	HComma	Returns an object reference to the HCommand object
		nd	associated with the init dialogs 'OK' pushbutton
Read only property	pHDisInitBus()	HDisp	
Read only property	pHDisInitCameraI	HDisp	
	D()	_	
Read only property	pHDisInitCamera	HDisp	
	Version()		
Read only property	pHDisInitDCamA	HDisp	
, , , , , , , , , , , , , , , , , , ,	PIVersion()		
Read only property	pHDisInitDriverVe	HDisp	
read only property	rsion()	l III isp	
	131011()	<u> </u>	<u>l</u>

Read only property	pHDisInitMessage	HDisp	Returns an object reference to the HDisp object
Read only property		пыѕр	associated with the init dialogs 'Message' display area
Dood only property	()	UDian	associated with the fifit dialogs iviessage display area
Read only property	pHDisInitModel()	HDisp	
Read only property	pHDisInitModule Version()	HDisp	
Read only property	pHDisInitVendor()	HDisp	
Read only property	pHEdnInitC47429	HEditNu	Returns an object reference to the HEditNumber object
	5ComPort()	mber	associated with init dialogs 'C474295 Com Port' editbox
Read only property	pHEdnInitC47429	HEditNu	Returns an object reference to the HEditNumber object
	8ComPort()	mber	associated with init dialogs 'C474298 Com Port' editbox
Read only property	pHEdnInitC48808	HEditNu	Returns an object reference to the HEditNumber object
	0ComPort()	mber	associated with init dialogs 'C488080 Com Port' editbox
Read only property	pHEdnInitC4880C	HEditNu	Returns an object reference to the HEditNumber object
	omPort()	mber	associated with init dialogs 'C4880 Com Port' editbox
Read only property	pHEdnInitC7300C	HEditNu	Returns an object reference to the HEditNumber object
	omPort()	mber	associated with init dialogs 'C7300 Com Port' editbox
Read only property	pHEdnInitC80001	HEditNu	Returns an object reference to the HEditNumber object
	0ComPort()	mber	associated with init dialogs 'C8000-10 Com Port' editbox
Read only property	pHEdnInitC80002	HEditNu	Returns an object reference to the HEditNumber object
	0ComPort()	mber	associated with init dialogs 'C8000-20 Com Port' editbox
Read only property	pHEdnInitGrabber	HEditNu	Returns an object reference to the HEditNumber object
	SysNo()	mber	associated with init dialogs 'Grabber System Number'
			editbox
Read only property	pHEdnInitOrcaHR	HEditNu	
	ComPort()	mber	
Read only property	pHEntInitModelNr	HEntry	
	()		
Read only property	pHEstInitConfiFile	HEditStri	Returns an object reference to the HEditString object
	()	ng	associated with the init dialogs 'Config File' editbox
Read only property	pHFraInitCamera()	HFrame	Returns an object reference to the HFrame object
7 1 1 7			associated with the init dialogs 'Camera' frame
Read only property	pHFraInitDCamA PI()	HFrame	_
Read only property	pHRadInitCamera(HRadios	Returns an object reference to the HRadios object
Read only property)	Tiradios	associated with the init dialogs 'Camera' radiobutton
	/		group
Read only property	pHRadInitCCDCa	HRadios	group
read only property	meraAccess()	Tittaaios	
Read only property	pHRadInitFrameG	HRadios	Returns an object reference to the HRadios object
read only property	rabber()	Tittadios	associated with the init dialogs 'Frame Grabber' group
Read only property	pHWinInitDlg()	HWindow	Returns an object reference to the HWindow object
property	18()		associated with the init dialogs main window
Read only property	pHWinInitLogo()	HWindow	Returns an object reference to the HWindow object
Frequency			associated with the init dialogs logo picture box
Read only property	piApplicationType	Integer	Returns the application type. Possible values are defined
property	()	8-1	in the enumeration ApplicationType
Read only property	piStartStatus()	Integer	Returns the current start status of the component.
Froperty		0.00-1	StartStatusNone=newly started, StartStatusInit=init
			dialog is shown, StartStatusRunning=running
Read only property	psAppDate()	Integer	Returns the applications date
Read only property	psApplicationDire	String	Returns the application directory
- July property	ctory()	~5	approximation directory
Read only property	psAppTitle()	String	Returns the title of the application
Read only property	psAppTitle()	String	Returns the long version of the title of the application
Read only property	psIniFile()	String	Sets or returns the name of the *.ini file used for storage
- July property	r	~5	of permanent parameters
Read only property	psSoftwareVersion	String	Returns the software version
Tiona only property	()	Sums	Testallib tile bottware verbion
Read only property	pStartHAppHiPic()	НАррНіР	Returns an object reference to the HAppHiPic object if
property	r()	ic	piStartStatus = StartStatusRunning
	I	1	prominente omicemining

Read only property	pStartHInitHi()	HInitHi	Returns an object reference to the HInitHi object if piStartStatus = StartStatusInit
Read only property	psWindowsDirecto	String	Returns the Windows directory of the computer where
Read only property	ry()	Sumg	the component runs
Function	pfReadFile(ByVal	Byte,	Reads the content of a file stored at the remote computer
Tunction	sFileName As	ByRef	reads the content of a file stored at the remote computer
	String, bArray()	lLength	
	Sums, or may ()	As Long,	
		Optional	
		sError As	
		Variant)	
Function	pfWriteFile(ByVal	Byte,	Writes a file at the remote computer
	sFileName As	ByRef	•
	String, bArray()	lLength	
		As Long,	
		ByVal	
		fDontOve	
		rwrite As	
		Integer,	
		Optional	
		sError As	
		Variant)	
Function	piInit(ByVal	Integer	Initializes the HInit object. This places the INIT dialog
	sIniFile As String,		on screen if started with InitUserIF
	ByVal fInitUserIF		
	As Integer, ByVal		
	fApplUserIF As		
	Integer, ByVal fNoDialogs As		
	Integer)		
Sub	pAsyncStartProg()		Starts the program asynchronously
Sub	pGetLicenceKeys(Returns information about all licence keys which could
	ByRef		be found
	fApplicationKeyFo		
	und%, ByRef		
	fLicenceAcquire%,		
	ByRef		
	fLicenceFitting%,		
	ByRef		
	fLicenceRCOnly%		
	, ByRef		
	fLicenceSave%,		
	ByRef		
	fLicenceSequence		
	%, ByRef		
	fLicenceTransAbs %)		
Sub	pMode(ByVal s As		
Suo	String, ByVal ft As		
	Single)		
H A nn HiDio	1~5.0/	l .	

HAppHiPic

Event	Message(ByVal s		Event which is raised to inform the user of ongoing
	As String)		operations
Read only property	pfCommPortOpen()	Integer	Returns a value which defines whether the communication port could be opened successfully for camera control
Read only property	pHACam()	HACam	
Read only property	pHAcq()	HAcq	Returns an object reference to the Acquisition object (HAcq)
Read only property	pHAsyncComman d()	HAsyncC ommand	Returns an object reference to the Asynchronous Command object (HAsyncCommand)

D d 1	LIC474205()	11047420	Detumble of this et aufanous as the CA7A2 OF Communication
Read only property	pHC474295()	HC47429 5	Returns an object reference to the C4742-95 Camera object (HC474295) If this camera is not used NOTHING is returned
Read only property	pHC474298()	HC47429 8	Returns an object reference to the C4742-98 Camera object (HC474298). If this camera is not used NOTHING is returned
Read only property	pHC4880()	HC4880	Returns an object reference to the C4880 Camera object (HC4880). If this camera is not used NOTHING is returned
Read only property	pHC488080()	HC48808 0	Returns an object reference to the C4880-80 Camera object (HC488080). If this camera is not used NOTHING is returned
Read only property	pHC7300()	HC7300	Returns an object reference to the C7300 Camera object (HC7300). If this camera is not used NOTHING is returned
Read only property	pHC800010()	HC80001 0	Returns an object reference to the C800010 Camera object (HC800010). If this camera is not used NOTHING is returned
Read only property	pHC800020()	HC80002 0	Returns an object reference to the C800020 Camera object
Read only property	pHChkMainLUTT ool()	HCheck	Returns an object reference to the HCheck object associated with the main dialogs 'LUT Tool' checkbox
Read only property	pHChkMainPRF()	HCheck	Returns an object reference to the HCheck object associated with the main dialogs 'Quick Profile' checkbox
Read only property	pHChkMainProfile	HCheck	Returns an object reference to the HCheck object associated with the main dialogs 'Profile' checkbox
Read only property	pHChkMainROI()	HCheck	Returns an object reference to the HCheck object associated with the main dialogs 'ROI I/F' checkbox
Read only property	pHChkOptLUTTo ol()	HCheck	Returns an object reference to the HCheck object associated with the option dialogs 'LUT Tool' checkbox
Read only property	pHChkOptRestore WindowPos()	HCheck	Returns an object reference to the HCheck object associated with the option dialogs 'Restore Window Position' checkbox
Read only property	pHChkOptUserFu nctions()	HCheck	Returns an object reference to the HCheck object associated with the option dialogs 'User Functions' checkbox
Read only property	pHComAllOptCan cel()	HComma nd	Returns an object reference to the HCommand object associated with the all options dialogs 'Cancel' pushbutton
Read only property	pHComAllOptOK(HComma nd	Returns an object reference to the HCommand object associated with the all options dialogs 'OK' pushbutton
Read only property	pHComMainAcqui re()	HComma nd	Returns an object reference to the HCommand object associated with the main dialogs 'Acquire' pushbutton
Read only property	pHComMainAI()	HComma nd	Returns an object reference to the HCommand object associated with the main dialogs 'Analog Integration' pushbutton
Read only property	pHComMainAuto LUT()	HComma nd	Returns an object reference to the HCommand object associated with the main dialogs 'Auto LUT' pushbutton
Read only property	pHComMainBacks ub()	HComma nd	Returns an object reference to the HCommand object associated with the main dialogs 'Backsub' pushbutton
Read only property	pHComMainFreez e()	HComma nd	Returns an object reference to the HCommand object associated with the main dialogs 'Freeze' pushbutton
Read only property	pHComMainInfo()	HComma nd	Returns an object reference to the HCommand object associated with the main dialogs 'Info' pushbutton
Read only property	pHComMainLive()	HComma nd	Returns an object reference to the HCommand object associated with the main dialogs 'Live' pushbutton
Read only property	pHComMainOpen(HComma nd	Returns an object reference to the HCommand object associated with the main dialogs ""Open"" pushbutton
Read only property	pHComMainPC()	HComma nd	Returns an object reference to the HCommand object associated with the main dialogs 'Photon Counting'

			pushbutton
Read only property	pHComMainSave(HComma nd	Returns an object reference to the HCommand object associated with the main dialogs 'Save' pushbutton
Read only property	pHComMainShadi ng()	HComma nd	Returns an object reference to the HCommand object associated with the main dialogs 'Shading correction' pushbutton
Read only property	pHComOptBackgr oundColor()	HComma nd	Returns an object reference to the HCommand object associated with the options dialogs 'Background Color' pushbutton
Read only property	pHComOptCancel(HComma nd	Returns an object reference to the HCommand object associated with the options dialogs 'Cancel' pushbutton
Read only property	pHComOptOK()	HComma nd	Returns an object reference to the HCommand object associated with the options dialogs 'OK' pushbutton
Read only property	pHDCam()	HDCam	
Read only property	pHDisMainMessag e()	HDisp	Returns an object reference to the HDisp object associated with the camera setup dialogs 'Message' display area
Read only property	pHDisMainTempe rature()	HDisp	Returns an object reference to the HDisp object associated with the camera setup dialogs 'Temperature' display area
Read only property	pHFlatPanel()	HFlatPane 1	Returns an object reference to the FlatPanel Camera object (HFlatPanel). If this camera is not used NOTHING is returned
Read only property	pHImages()	HImages	Returns an object reference to the Images object (HImages)
Read only property	pHLicence()	HLicence	
Read only property	pHLUTControl()	HLUTCo ntrol	Returns an object reference to the LUT Control object (HLUTControl)
Read only property	pHMenMain3DDa ta()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs '3DData' menu entry
Read only property	pHMenMainAbout ()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'About' menu entry
Read only property	pHMenMainAcqui re()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Acquire' menu entry
Read only property	pHMenMainAcqui sition()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Acquisition' menu
Read only property	pHMenMainAnalo gIntegration()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Analog Integration' menu entry
Read only property	pHMenMainAnaly sis()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Analysis' menu
Read only property	pHMenMainArith metic()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Arithmetic' menu entry
Read only property	pHMenMainBackg roundSubtraction()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Background Subtraction' menu entry
Read only property	pHMenMainBlank 1()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Blank1' menu entry
Read only property	pHMenMainBlank 2()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Blank2' menu entry
Read only property	pHMenMainBlank 3()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Blank3' menu entry
Read only property	pHMenMainBlank 6()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Blank6' menu entry
Read only property	pHMenMainBlank 7()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Blank7' menu entry
Read only property	pHMenMainCame ra()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Camera Setup' menu entry
Read only property	pHMenMainClearI	HMenu	Returns an object reference to the HMenu object

	mage()		associated with the main dialogs 'Clear Image' menu entry
Read only property	pHMenMainClose All()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Close All' menu entry
Read only property	pHMenMainCorre ctions()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Corrections' menu
Read only property	pHMenMainCorre ctionSetup()	HMenu	
Read only property	pHMenMainCreate ScalingFiles()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Create Scaling Files' menu entry
Read only property	pHMenMainDefec tPixelCorrectionSe tup()	HMenu	•
Read only property	pHMenMainDispla y()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Display' menu
Read only property	pHMenMainExit()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Exit' menu entry
Read only property	pHMenMainFile()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'File' menu
Read only property	pHMenMainFreez e()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Freeze' menu
Read only property	pHMenMainHisto gram()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Histogram' menu entry
Read only property	pHMenMainImage Status()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Image Status' menu entry
Read only property	pHMenMainInfo()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Info' menu
Read only property	pHMenMainLive()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Live' menu
Read only property	pHMenMainLUT()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'LUT' menu entry
Read only property	pHMenMainMapL UT()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Map Values By LUT' menu entry
Read only property	pHMenMainOpen(HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Open' menu entry
Read only property	pHMenMainOptio ns()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Options' menu entry
Read only property	pHMenMainPhoto nCounting()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Photon Counting' menu entry
Read only property	pHMenMainPrint()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Print' menu entry
Read only property	pHMenMainProce ssing()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Processing' menu
Read only property	pHMenMainProfil e()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Profile' menu entry
Read only property	pHMenMainRS23 2()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'RS232' menu entry
Read only property	pHMenMainSave As()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Save As' menu entry
Read only property	pHMenMainSaveR OIAs()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Save ROI As' menu entry
Read only property	pHMenMainScalin g()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Scaling' menu entry
Read only property	pHMenMainSeque nce()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Sequence' menu entry

Read only property	pHMenMainSetup(HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Setup' menu
Read only property	pHMenMainShadi ngCorrection()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Shading Correction' menu entry
Read only property	pHMenMainSuperi mpose()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Superimpose' menu entry
Read only property	pHMenMainUserF unction()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'User Function' menu entry
Read only property	pHMenMainWind ow()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Window' menu
Read only property	pHMenMainWind owFile00()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Window File 0' menu entry
Read only property	pHMenMainWind owFile01()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Window File 1' menu entry
Read only property	pHMenMainWind owFile02()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Window File 2' menu entry
Read only property	pHMenMainWind owFile03()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Window File 3' menu entry
Read only property	pHMenMainWind owFile04()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Window File 4' menu entry
Read only property	pHMenMainWind owFile05()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Window File 5' menu entry
Read only property	pHMenMainWind owFile06()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Window File 6' menu entry
Read only property	pHMenMainWind owFile07()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Window File 7' menu entry
Read only property	pHMenMainWind owFile08()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Window File 8' menu entry
Read only property	pHMenMainWind owFile09()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Window File 9' menu entry
Read only property	pHMenMainWind owFile10()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Window File 10' menu entry
Read only property	pHMenMainWind owFile11()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Window File 11' menu entry
Read only property	pHMenMainWind owFile12()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Window File 12' menu entry
Read only property	pHMenMainWind owFile13()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Window File 13' menu entry
Read only property	pHMenMainWind owFile14()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Window File 14' menu entry
Read only property	pHMenMainWind owFile15()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Window File 15' menu entry

Read only property	pHMenMainWind owFile16()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Window File 16' menu entry
Read only property	pHMenMainWind owFile17()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Window File 17' menu entry
Read only property	pHMenMainWind owFile18()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Window File 18' menu entry
Read only property	pHMenMainWind owFile19()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Window File 19' menu entry
Read only property	pHMessageBox()	HMsgBox	Returns an object reference to the Message Box object (HMessageBox)
Read only property	pHRadMainROITo ols()	HRadios	Returns an object reference to the HRadios object associated with the main dialogs 'ROI Tools' radiobutton group
Read only property	pHSequence()	HSequenc e	Returns an object reference to the Sequence object (HSequence)
Read only property	pHSystemScaling(HSystemS caling	Returns an object reference to the System Scaling object (HSystemScaling)
Read only property	pHTabAllOpt()	HTab	Returns an object reference to the HTab object associated with the all options dialogs 'Option' tab group
Read only property	pHWinAllOptAcq(HWindow	Returns an object reference to the HWindow object associated with the all options acquisition picture box
Read only property	pHWinAllOptDlg(HWindow	Returns an object reference to the HWindow object associated with the all options main window
Read only property	pHWinAllOptGen eral()	HWindow	Returns an object reference to the HWindow object associated with the all options general picture box
Read only property	pHWinAllOptImag es()	HWindow	Returns an object reference to the HWindow object associated with the all options images picture box
Read only property	pHWinAllOptSequ ence()	HWindow	Returns an object reference to the HWindow object associated with the all options sequence picture box
Read only property	pHWinMainClient Area()	HWindow	Returns an object reference to the HWindow object associated with the main windows client area picture box
Read only property	pHWinMainDlg()	HWindow	Returns an object reference to the HWindow object associated with the main dialogs main window
Read only property	pHWinOptDlg()	HWindow	Returns an object reference to the HWindow object associated with the options main window
Read only property	pHWinOptOptions ()	HWindow	Returns an object reference to the HWindow object associated with the options dialogs options picturebox
Read only property	piAcquisitionMod ule()	Integer	Returns the computers acquisition module. Possible values are defined in the enumeration AcquisitionModule.
Read only property	piApplicationType ()	Integer	Returns the application type. Possible values are defined in the enumeration ApplicationType
Read only property	piCameraTyp()	Integer	Returns the camera type. Possible values are defined in the enumeration CameraType.
Read only property	piFrameGrabber()	Integer	Returns the computers frame grabber. Possible values are defined in the enumeration FrameGrabber.
Read only property	piOperatingSystem ()	Integer	Returns the computers frame grabber. Possible values are defined in the enumeration FrameGrabber.
Read only property	pobjHCamera()	Object	Returns an object reference to the camera object. Its type is dependent on the used camera
Read only property	psAppDate()	String	Returns the application date.
Read only property	psApplicationDire ctory()	String	Returns the application directory
Read only property	psApplicationStrin g()	String	Returns a string identifying the application
Read only property	psAppTitle()	String	Returns the title of the application

Read only property	psAppTitleLong()	String	Returns the long version of the title of the application
Read only property	psConfigFile()	String	Sets or returns the frame grabbers configuration file
Read only property	psIniFile()	String	Sets or returns the name of the *.ini file used for storage of permanent parameters
Read only property	psSoftwareVersion ()	String	Returns the software version
Read only property	psWindowsDirecto ry()	String	Returns the Windows directory of the computer where the component runs
Read/write property	pfOptionLUTTool(Integer	Sets or returns a value which defines whether the LUT tool should be shown on the main window
Read/write property	pfOptionRestoreW indowPos()	Integer	Sets or returns a value which defines whether window positions should be restored or not when the window is reactivated
Read/write property	pfOptionUserFunct ions()	Integer	Sets or returns a value which defines whether the User function is called or not
Read/write property	pfRestoreWindow Pos()	Integer	Sets or returns a value which defines whether the window position, its size and window state is restored when the window is displayed again after it has been closed
Read/write property	pfUserIF()	Integer	Sets or returns a value which defines whether the associated window should be shown on screen. A window is only displayed under the following condition: pfUserIF=TRUE, pfVisible=TRUE, pfHideForm=FALSE
Read/write property	plOptionBackgrou ndColor()	Long	Sets or returns a value which defines the background color
Function	pfReadFile(ByVal sFileName As String, bArray()	Byte, ByRef ILength As Long, Optional sError As Variant)	Reads the content of a file stored at the remote computer
Function	pfWriteFile(ByVal sFileName As String, bArray()	Byte, ByRef ILength As Long, ByVal fDontOve rwrite As Integer, Optional sError As Variant)	Writes a file at the remote computer
Function	piEndProg()	Integer	Ends the program. This should be the last method in the application program.
Function	psErrorString(ByV al Index As Integer)	String	Returns a description of the Error related to error No. Index
Function	psGetStatus()	String	Returns the current application status string
HInitTa			
Event	ApplicationCreate d(ByRef HAppHPDTA As HAppHPDTA)		Event which is raised when the Application is successfully created. This event returns an object reference to the HAppHPDTA object
Event	ErrorDueToLicenc e()		Event which is raised when the application could not be created due to missing licence
Event	ErrorDuringInit()		Event which is raised when the application could not be created due to an error during initialization
Event	InitCancel()		Event which is raised when the application was not

Event	Message(ByVal sMessage As String)		Event which is raised to indicate processign steps during initialization
Event	MsgBox(ByVal iID As Integer, ByVal sPrompt As String, ByVal sTitle As String, ByVal Style As Integer, ByVal Buttons As Integer, ByRef default As		Event which is raised in remote control mode when the pfNoDialogs is set to true instead of showing a \r\r\nmessagebox. This event can be use for the client program to react on such messages
Event	Integer) NoUserIFAllowed(Event which is raised to indicate that no user I/F is allowed
Read only property	pfApplUserIF()	Integer	Retruns a flag which defines whether the Appliaction will run without User I/F (Default)
Read only property	pfInitStatus()	Integer	Returns a value indicating the current status of initialization. Possible values are defined in the enumeration InitStatus
Read only property	pfInitUserIF()	Integer	Retruns a flag which defines whether the Initialisation will run without User I/F (Default)
Read only property	pHAppHPDTA()	HAppHP DTA	Returns an object reference to the HAppHPDTA object if successfully created
Read only property	pHComCCDSetCa ncel()	HComma nd	
Read only property	pHComCCDSetGe tConfigFile()	HComma nd	Returns an object reference to the HCommand object associated with the init dialogs 'Get Config File' pushbutton
Read only property	pHComCCDSetO K()	HComma nd	
Read only property	pHComInitCancel(HComma nd	Returns an object reference to the HCommand object associated with the init dialogs 'Cancel' pushbutton
Read only property	pHComInitOK()	HComma nd	Returns an object reference to the HCommand object associated with the init dialogs 'OK' pushbutton
Read only property	pHComInitSetupC CD()	HComma nd	Returns an object reference to the HCommand object associated with the init dialogs 'Setup CCD' pushbutton
Read only property	pHComInitSetupSt reakDevices()	HComma nd	Returns an object reference to the HCommand object associated with the init dialogs 'Setup Streak Devices' pushbutton
Read only property	pHDisCCDSetBus ()	HDisp	
Read only property	pHDisCCDSetCa meraID()	HDisp	
Read only property	pHDisCCDSetCa meraVersion()	HDisp	
Read only property	pHDisCCDSetDCa mAPIVersion()	HDisp	
Read only property	pHDisCCDSetDriv erVersion()	HDisp	
Read only property	pHDisCCDSetMo del()	HDisp	
Read only property	pHDisCCDSetMo duleVersion()	HDisp	
Read only property	pHDisCCDSetVen dor()	HDisp	
Read only property	pHDisInitCCDCa mera()	HDisp	Returns an object reference to the HDisp object associated with the init dialogs 'CCD Camera' display area
Read only property	pHDisInitDevice1(HDisp	Returns an object reference to the HDisp object associated with the init dialogs 'Device 1' display area

Read only property	pHDisInitDevice3(HDisp	associated with the init dialogs 'Device 2' display area Returns an object reference to the HDisp object
)	1	associated with the init dialogs 'Device 3' display area
Read only property	pHDisInitDevice4(HDisp	Returns an object reference to the HDisp object associated with the init dialogs 'Device 4' display area
Read only property	pHDisInitGPIBAd dr1()	HDisp	Returns an object reference to the HDisp object associated with the init dialogs GPIB Address 1' display area
Read only property	pHDisInitGPIBAd dr2()	HDisp	Returns an object reference to the HDisp object associated with the init dialogs GPIB Address 2' display area
Read only property	pHDisInitGPIBAd dr3()	HDisp	Returns an object reference to the HDisp object associated with the init dialogs GPIB Address 3' display area
Read only property	pHDisInitGPIBAd dr4()	HDisp	Returns an object reference to the HDisp object associated with the init dialogs GPIB Address 4' display area
Read only property	pHDisInitMessage ()	HDisp	Returns an object reference to the HDisp object associated with the init dialogs 'Message' display area
Read only property	pHEdnCCDSetC4 74295ComPort()	HEditNu mber	Returns an object reference to the HEditNumber object associated with init dialogs 'C474295 Com Port' editbox
Read only property	pHEdnCCDSetC4 74298ComPort()	HEditNu mber	Returns an object reference to the HEditNumber object associated with init dialogs 'C474298 Com Port' editbox
Read only property	pHEdnCCDSetC4 88080ComPort()	HEditNu mber	Returns an object reference to the HEditNumber object associated with init dialogs 'C4880-8X Com Port' editbox
Read only property	pHEdnCCDSetC4 880ComPort()	HEditNu mber	Returns an object reference to the HEditNumber object associated with init dialogs 'C4880 Com Port' editbox
Read only property	pHEdnCCDSetGra bberSysNo()	HEditNu mber	Returns an object reference to the HEditNumber object associated with init dialogs 'Board number' editbox (Also referred to system number)
Read only property	pHEdnCCDSetOrc aHRComPort()	HEditNu mber	
Read only property	pHEntCCDSetMo delNr()	HEntry	
Read only property	pHEstCCDSetCon fiFile()	HEditStri ng	Returns an object reference to the HEditString object associated with the init dialogs 'Config File' editbox
Read only property	pHExternalDevice s()	HExternal Devices	
Read only property	pHFraCCDSetCam era()	HFrame	Returns an object reference to the HFrame object associated with the init dialogs CCD Setup' frame
Read only property	pHFraCCDSetDCa mAPI()	HFrame	
Read only property	pHFraInitCamera()	HFrame	Returns an object reference to the HFrame object associated with the init dialogs 'Camera' frame
Read only property	pHFraInitStreakDe vices()	HFrame	Returns an object reference to the HFrame object associated with the init dialogs 'Streak devices' frame
Read only property	pHRadCCDSetCa mera()	HRadios	Returns an object reference to the HRadios object associated with the init dialogs 'Camera' radiobutton group
Read only property	pHRadCCDSetCC DCameraAccess()	HRadios	
Read only property	pHRadCCDSetFra meGrabber()	HRadios	Returns an object reference to the HRadios object associated with the init dialogs 'Frame Grabber' group
Read only property	pHWinInitDlg()	HWindow	Returns an object reference to the HWindow object associated with the init dialogs main window

		1	in the enumeration Application Type
Dand and a second	()	Total : ::	in the enumeration ApplicationType
Read only property	piStartStatus()	Integer	Returns the current start status of the component.
			StartStatusNone=newly started, StartStatusInit=init
	1 5 0	-	dialog is shown, StartStatusRunning=running
Read only property	psAppDate()	Integer	Returns the applications date
Read only property	psApplicationDire ctory()	String	Returns the application directory
Read only property	psAppTitle()	String	Returns the title of the application
Read only property	psAppTitleLong()	String	Returns the long version of the title of the application
Read only property	psIniFile()	String	Sets or returns the name of the *.ini file used for storage
			of permanent parameters
Read only property	psSoftwareVersion ()	String	Returns the software version
Read only property	pStartHAppHPDT	НАррНР	Returns an object reference to the HAppHPDTA object
Transfer of the state of the st	A()	DTA	if piStartStatus = StartStatusRunning
Read only property	pStartHInitTa()	HInitTa	Returns an object reference to the HInitTA object if
	·		piStartStatus = StartStatusInit
Read only property	psWindowsDirecto	String	Returns the Windows directory of the computer where
P	ry()	D.	the component runs
Function	pfReadFile(ByVal	Byte,	Reads the content of a file stored at the remote computer
	sFileName As	ByRef	
	String, bArray()	lLength	
		As Long,	
		Optional	
		sError As	
	CTX 1 FIL (B X 1	Variant)	XXX to Git 1
Function	pfWriteFile(ByVal	Byte,	Writes a file at the remote computer
	sFileName As	ByRef	
	String, bArray()	lLength	
		As Long,	
		ByVal	
		fDontOve	
		rwrite As	
		Integer,	
		Optional sError As	
Daniel's a	'I'4/DW-1	Variant)	In Malana da III al abia de Tibia al acada INIT di la
Function	piInit(ByVal	Integer	Initializes the HInit object. This places the INIT dialog
	sIniFile As String,		on screen if started with InitUserIF
	ByVal fInitUserIF		
	As Integer, ByVal		
	fApplUserIF As		
	Integer, ByVal		
	fNoDialogs As Integer)		
Sub	<u> </u>		Starte the program asynchronously
	pAsyncStartProg()		Starts the program asynchronously
Sub	pGetLicenceKeys(Returns information about all licence keys which could be found
	ByRef fApplicationKeyFo		UC TOUTIU
	und%, ByRef fLicenceAcquire%,		
	ByRef		
	fLicenceFitting%,		
	ByRef		
	fLicenceRCOnly%		
	, ByRef		
	fLicenceSave%,		
	ByRef		
	fLicenceSequence		
	%, ByRef		
	%, Bykei fLicenceTransAbs		
	1Licence FransAbs	<u> </u>	

	%)	
Sub	pMode(ByVal s As	
	String, ByVal ft As	
	Single)	

HAppHPDTA

HAppHPDTA			
Event	Message(ByVal s		Event which is raised to inform the user of ongoing
	As String)		operations
Read only property	pfCommPortOpen(Integer	Returns a value which defines whether the
)		communication port could be opened successfully for
			camera control
Read only property	pHACam()	HACam	Returns an object reference to the Analog Camera object
			(HACam). If this camera is not used NOTHING is
			returned
Read only property	pHAcq()	HAcq	Returns an object reference to the Acquisition object
			(HAcq)
Read only property	pHAsyncComman	HAsyncC	Returns an object reference to the Asynchronous
	d()	ommand	Command object (HAsyncCommand)
Read only property	pHC474295()	HC47429	Returns an object reference to the C4742-95 Camera
		5	object (HC474295) If this camera is not used NOTHING
			is returned
Read only property	pHC474298()	HC47429	Returns an object reference to the C474298 Camera
	"	8	object (HC474298). If this camera is not used
			NOTHING is returned
Read only property	pHC4880()	HC4880	Returns an object reference to the C4880 Camera object
	· · · · · · · · · · · · · · · · · · ·		(HC4880). If this camera is not used NOTHING is
			returned
Read only property	pHC488080()	HC48808	Returns an object reference to the C4880-80 Camera
read only property	prie ieeeee()	0	object (HC488080). If this camera is not used
			NOTHING is returned
Read only property	pHChkMainLUTT	HCheck	Returns an object reference to the HCheck object
Read only property	ool()	TICHECK	associated with the main dialogs 'LUT Tool' checkbox
Read only property	pHChkMainPRF()	HCheck	Returns an object reference to the HCheck object
Read only property	pricikiviann ki ()	TICHECK	associated with the main dialogs 'Quick Profile'
			checkbox
Read only property	pHChkMainProfile	HCheck	Returns an object reference to the HCheck object
Read only property	()	Helieck	associated with the main dialogs 'Profile' checkbox
Read only property	pHChkMainROI()	HCheck	Returns an object reference to the HCheck object
Read only property	pricikwanikoi()	Helieck	associated with the main dialogs 'ROI I/F' checkbox
Dood only property	pHChkOptLUTTo	HCheck	Returns an object reference to the HCheck object
Read only property	ol()	HCHeck	
Dandanlar management	~	HCheck	associated with the option dialogs 'LUT Tool' checkbox
Read only property	pHChkOptRestore	HCneck	Returns an object reference to the HCheck object
	WindowPos()		associated with the option dialogs 'Restore Window
D 1 1	HGH O H F	TTC1 1	Position' checkbox
Read only property	pHChkOptUserFu	HCheck	Returns an object reference to the HCheck object
	nctions()		associated with the option dialogs 'User Functions'
D 1 1	HG 4110 G	IIC	checkbox
Read only property	pHComAllOptCan	HComma	Returns an object reference to the HCommand object
	cel()	nd	associated with the all options dialogs 'Cancel'
D 1 1	TIG 1110 075	HC	pushbutton
Read only property	pHComAllOptOK(HComma	Returns an object reference to the HCommand object
)	nd	associated with the all options dialogs 'OK' pushbutton
Read only property	pHComMainAcqui	HComma	Returns an object reference to the HCommand object
	re()	nd	associated with the main dialogs 'Acquire' pushbutton
Read only property	pHComMainAI()	HComma	Returns an object reference to the HCommand object
		nd	associated with the main dialogs 'Analog Integration'
			pushbutton
Read only property	pHComMainAuto	HComma	Returns an object reference to the HCommand object
	LUT()	nd	associated with the main dialogs 'Auto LUT' pushbutton
Read only property	pHComMainBacks	HComma	Returns an object reference to the HCommand object
	ub()	nd	associated with the main dialogs 'Backsub' pushbutton

• • • •			
	pHComMainFreez	HComma	Returns an object reference to the HCommand object
	e()	nd	associated with the main dialogs 'Freeze' pushbutton
Read only property	pHComMainInfo()	HComma	Returns an object reference to the HCommand object
		nd	associated with the main dialogs 'Info' pushbutton
Read only property	pHComMainLive()	HComma	Returns an object reference to the HCommand object
		nd	associated with the main dialogs 'Live' pushbutton
Read only property	pHComMainOpen(HComma	Returns an object reference to the HCommand object
)	nd	associated with the main dialogs 'Open' pushbutton
Read only property	pHComMainPC()	HComma	Returns an object reference to the HCommand object
		nd	associated with the main dialogs 'Photon Counting'
			pushbutton
Read only property	pHComMainRecal	HComma	Returns an object reference to the HCommand object
	11()	nd	associated with the main dialogs 'Recall1' pushbutton
Read only property	pHComMainRecal	HComma	Returns an object reference to the HCommand object
	12()	nd	associated with the main dialogs 'Recall2' pushbutton
Read only property	pHComMainSave(HComma	Returns an object reference to the HCommand object
)	nd	associated with the main dialogs 'Save' pushbutton
Read only property	pHComMainSave1	HComma	Returns an object reference to the HCommand object
The state of the s	()	nd	associated with the main dialogs 'Save1' pushbutton
Read only property	pHComMainSave2	HComma	Returns an object reference to the HCommand object
	()	nd	associated with the main dialogs 'Save2' pushbutton
	pHComMainShadi	HComma	Returns an object reference to the HCommand object
• •	-	nd	associated with the main dialogs 'Shading correction'
	ng()	IIG	
D 1 1	IICO. (Dl	HO	pushbutton
	pHComOptBackgr	HComma	Returns an object reference to the HCommand object
	oundColor()	nd	associated with the options dialogs 'Background Color'
			pushbutton
Read only property	pHComOptCancel(HComma	Returns an object reference to the HCommand object
)	nd	associated with the options dialogs 'Cancel' pushbutton
Read only property	pHComOptOK()	HComma	Returns an object reference to the HCommand object
		nd	associated with the options dialogs 'OK' pushbutton
Read only property	pHDCam()	HDCam	
	pHDisMainGateM	HDisp	Returns an object reference to the HDisp object
	ode()	•	associated with the camera setup dialogs 'Gate Mode'
	· ·		display area
Read only property	pHDisMainMCPG	HDisp	Returns an object reference to the HDisp object
	ain()	_F	associated with the camera setup dialogs 'MCP Gain'
	()		display area
Read only property	pHDisMainMessag	HDisp	Returns an object reference to the HDisp object
	e()	ПЪТър	associated with the camera setup dialogs 'Message'
	e()		display area
Dood only muonouty	nIIDiaMainMada()	IIDian	
Read only property	pHDisMainMode()	HDisp	Returns an object reference to the HDisp object
			associated with the camera setup dialogs 'Mode' display
			area
P 1 :	IID: 15 1 Ft 1 1	IID.	
Read only property	pHDisMainPlugin(HDisp	Returns an object reference to the HDisp object
Read only property	pHDisMainPlugin(HDisp	associated with the camera setup dialogs 'Plugin' display
)		associated with the camera setup dialogs 'Plugin' display area
	pHDisMainPlugin() pHDisMainShutter	HDisp HDisp	associated with the camera setup dialogs 'Plugin' display area Returns an object reference to the HDisp object
Read only property)		associated with the camera setup dialogs 'Plugin' display area
Read only property	pHDisMainShutter		associated with the camera setup dialogs 'Plugin' display area Returns an object reference to the HDisp object associated with the camera setup dialogs 'Shutter' display area
Read only property	pHDisMainShutter		associated with the camera setup dialogs 'Plugin' display area Returns an object reference to the HDisp object associated with the camera setup dialogs 'Shutter' display
Read only property Read only property	pHDisMainShutter	HDisp	associated with the camera setup dialogs 'Plugin' display area Returns an object reference to the HDisp object associated with the camera setup dialogs 'Shutter' display area
Read only property Read only property	pHDisMainShutter () pHDisMainStreak	HDisp	associated with the camera setup dialogs 'Plugin' display area Returns an object reference to the HDisp object associated with the camera setup dialogs 'Shutter' display area Returns an object reference to the HDisp object
Read only property Read only property	pHDisMainShutter () pHDisMainStreak Camera()	HDisp HDisp	associated with the camera setup dialogs 'Plugin' display area Returns an object reference to the HDisp object associated with the camera setup dialogs 'Shutter' display area Returns an object reference to the HDisp object associated with the camera setup dialogs 'Streak Camera' display area
Read only property Read only property Read only property	pHDisMainShutter () pHDisMainStreak Camera() pHDisMainTempe	HDisp	associated with the camera setup dialogs 'Plugin' display area Returns an object reference to the HDisp object associated with the camera setup dialogs 'Shutter' display area Returns an object reference to the HDisp object associated with the camera setup dialogs 'Streak Camera' display area Returns an object reference to the HDisp object
Read only property Read only property Read only property	pHDisMainShutter () pHDisMainStreak Camera()	HDisp HDisp	associated with the camera setup dialogs 'Plugin' display area Returns an object reference to the HDisp object associated with the camera setup dialogs 'Shutter' display area Returns an object reference to the HDisp object associated with the camera setup dialogs 'Streak Camera' display area Returns an object reference to the HDisp object associated with the camera setup dialogs 'Temperature'
Read only property Read only property Read only property	pHDisMainShutter () pHDisMainStreak Camera() pHDisMainTempe rature()	HDisp HDisp	associated with the camera setup dialogs 'Plugin' display area Returns an object reference to the HDisp object associated with the camera setup dialogs 'Shutter' display area Returns an object reference to the HDisp object associated with the camera setup dialogs 'Streak Camera' display area Returns an object reference to the HDisp object associated with the camera setup dialogs 'Temperature' display area
Read only property Read only property Read only property Read only property	pHDisMainShutter () pHDisMainStreak Camera() pHDisMainTempe rature() pHDisMainTimeR	HDisp HDisp	associated with the camera setup dialogs 'Plugin' display area Returns an object reference to the HDisp object associated with the camera setup dialogs 'Shutter' display area Returns an object reference to the HDisp object associated with the camera setup dialogs 'Streak Camera' display area Returns an object reference to the HDisp object associated with the camera setup dialogs 'Temperature' display area Returns an object reference to the HDisp object associated with the camera setup dialogs 'Temperature' display area
Read only property Read only property Read only property Read only property	pHDisMainShutter () pHDisMainStreak Camera() pHDisMainTempe rature()	HDisp HDisp	associated with the camera setup dialogs 'Plugin' display area Returns an object reference to the HDisp object associated with the camera setup dialogs 'Shutter' display area Returns an object reference to the HDisp object associated with the camera setup dialogs 'Streak Camera' display area Returns an object reference to the HDisp object associated with the camera setup dialogs 'Temperature' display area Returns an object reference to the HDisp object associated with the camera setup dialogs 'Time Range'
Read only property Read only property Read only property Read only property	pHDisMainShutter () pHDisMainStreak Camera() pHDisMainTempe rature() pHDisMainTimeR ange()	HDisp HDisp HDisp	associated with the camera setup dialogs 'Plugin' display area Returns an object reference to the HDisp object associated with the camera setup dialogs 'Shutter' display area Returns an object reference to the HDisp object associated with the camera setup dialogs 'Streak Camera' display area Returns an object reference to the HDisp object associated with the camera setup dialogs 'Temperature' display area Returns an object reference to the HDisp object associated with the camera setup dialogs 'Time Range' display area
Read only property	pHDisMainShutter () pHDisMainStreak Camera() pHDisMainTempe rature() pHDisMainTimeR	HDisp HDisp	associated with the camera setup dialogs 'Plugin' display area Returns an object reference to the HDisp object associated with the camera setup dialogs 'Shutter' display area Returns an object reference to the HDisp object associated with the camera setup dialogs 'Streak Camera' display area Returns an object reference to the HDisp object associated with the camera setup dialogs 'Temperature' display area Returns an object reference to the HDisp object associated with the camera setup dialogs 'Time Range'

Read only property	pHMenMainDevic	HMenu	Returns an object reference to the HMenu object
Read only property	pHMenMainDefec tPixelCorrectionSe tup()	HMenu	
Read only property	pHMenMainCurva tureCorrectionSetu p()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Curvature Correction Setup' menu entry
Read only property	pHMenMainCurva tureCorrection()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Curvature Correction' menu entry
Read only property	pHMenMainCreate ScalingFiles()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Create Scaling Files' menu entry
Read only property	pHMenMainCorre ctionSetup()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Correction Setup' menu entry
Read only property	pHMenMainCorre ctions()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Corrections' menu
Read only property	pHMenMainClose All()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Claose All' menu entry
Read only property	pHMenMainClearI mage()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Clear Image' menu entry
Read only property	pHMenMainCame ra()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Camera Setup' menu entry
Read only property	pHMenMainBlank 7()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Blank7' menu entry
Read only property	pHMenMainBlank 6()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Blank6' menu entry
Read only property	pHMenMainBlank 3()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Blank3' menu entry
Read only property	pHMenMainBlank 2()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Blank2' menu entry
Read only property	pHMenMainBlank 1()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Blank1' menu entry
Read only property	roundSubtraction()	Thvienu	associated with the main dialogs 'Background' Subtraction' menu entry
Read only property	metic() pHMenMainBackg	HMenu	associated with the main dialogs 'Arithmetic' menu entry Returns an object reference to the HMenu object
Read only property Read only property	pHMenMainAnaly sis() pHMenMainArith	HMenu HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Analysis' menu Returns an object reference to the HMenu object
D 1 1	gIntegration()	ID (associated with the main dialogs 'Analog Integration' menu entry
Read only property	sition() pHMenMainAnalo	HMenu	associated with the main dialogs 'Acquisition' menu Returns an object reference to the HMenu object
Read only property	re() pHMenMainAcqui	HMenu	associated with the main dialogs 'Acquire' menu entry Returns an object reference to the HMenu object
Read only property	pHMenMainAcqui	HMenu	associated with the main dialogs 'About' menu entry Returns an object reference to the HMenu object
Read only property	pHMenMainAbout	HMenu	Returns an object reference to the HMenu object
Read only property	pHMenMain3DDa ta()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs '3DData' menu entry
Read only property	pHLUTControl()	HLUTCo ntrol	Returns an object reference to the LUT Control object (HLUTControl)
Read only property	pHLicence()	HLicence	Returns an object reference to the Licence object (HLicence)
Read only property	pHImages()	HImages	Returns an object reference to the Images object (HImages)

	eControlOptions()		associated with the main dialogs 'Device Control Options' menu entry
Read only property	pHMenMainDispla y()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Display' menu
Read only property	pHMenMainEmer gencyOff()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Emergency Off' menu entry
Read only property	pHMenMainExit()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Exit' menu entry
Read only property	pHMenMainFile()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'File' menu
Read only property	pHMenMainFittin g()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Fitting' menu
Read only property	pHMenMainFrami ng2Sequence()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Framing To Sequence' menu
Read only property	pHMenMainFrami ngSetup()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Framing Setup' menu
Read only property	pHMenMainFreez e()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Freeze' menu
Read only property	pHMenMainHisto gram()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Histogram' menu entry
Read only property	pHMenMainImage Status()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Image Status' menu entry
Read only property	pHMenMainInfo()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Info' menu
Read only property	pHMenMainLive()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Live' menu
Read only property	pHMenMainLUT()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'LUT' menu entry
Read only property	pHMenMainMapL UT()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Map Values By LUT' menu entry
Read only property	pHMenMainOpen(HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Open' menu entry
Read only property	pHMenMainOptio ns()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Options' menu entry
Read only property	pHMenMainPhoto nCounting()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Photon Counting' menu entry
Read only property	pHMenMainPrint()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Print' menu entry
Read only property	pHMenMainProce ssing()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Processing' menu
Read only property	pHMenMainProfil e()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Profile' menu entry
Read only property	pHMenMainRS23 2()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'RS232' menu entry
Read only property	pHMenMainSave As()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Save As' menu entry
Read only property	pHMenMainSaveR OIAs()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Save ROI As' menu
Read only property	pHMenMainScalin g()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Scaling' menu entry
Read only property	pHMenMainSeque nce()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Sequence' menu entry
Read only property	pHMenMainSetup(HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Setup' menu
Read only property	pHMenMainShadi	HMenu	Returns an object reference to the HMenu object

	ngCorrection()		associated with the main dialogs 'Shading Correction' menu entry
Read only property	pHMenMainShow Delay2StatusContr ol()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Show Delay2 Status/Control' menu entry
Read only property	pHMenMainShow DelayStatusContro I()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Show Delay Status/Control' menu entry
Read only property	pHMenMainShow SpecStatusControl()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Show Spec Status/Control' menu entry
Read only property	pHMenMainShow StreakStatusContro l()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Show Streak Status/Control' menu entry
Read only property	pHMenMainSuperi mpose()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Superimpose' menu entry
Read only property	pHMenMainTransi entAbsorption()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Transient Absorption' menu entry
Read only property	pHMenMainTrigg erSetup()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Trigger Setup' menu entry
Read only property	pHMenMainUserF unction()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'User Function' menu entry
Read only property	pHMenMainWind ow()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Window' menu
Read only property	pHMenMainWind owFile00()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Window File 0' menu entry
Read only property	pHMenMainWind owFile01()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Window File 1' menu entry
Read only property	pHMenMainWind owFile02()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Window File 2' menu entry
Read only property	pHMenMainWind owFile03()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Window File 3' menu entry
Read only property	pHMenMainWind owFile04()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Window File 4' menu entry
Read only property	pHMenMainWind owFile05()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Window File 5' menu entry
Read only property	pHMenMainWind owFile06()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Window File 6' menu entry
Read only property	pHMenMainWind owFile07()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Window File 7' menu entry
Read only property	pHMenMainWind owFile08()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Window File 8' menu entry
Read only property	pHMenMainWind owFile09()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Window File 9' menu entry
Read only property	pHMenMainWind owFile10()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Window File 10' menu entry

Read only property	pHMenMainWind owFile11()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Window File 11' menu entry
Read only property	pHMenMainWind owFile12()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Window File 12' menu entry
Read only property	pHMenMainWind owFile13()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Window File 13' menu entry
Read only property	pHMenMainWind owFile14()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Window File 14' menu entry
Read only property	pHMenMainWind owFile15()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Window File 15' menu entry
Read only property	pHMenMainWind owFile16()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Window File 16' menu entry
Read only property	pHMenMainWind owFile17()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Window File 17' menu entry
Read only property	pHMenMainWind owFile18()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Window File 18' menu entry
Read only property	pHMenMainWind owFile19()	HMenu	Returns an object reference to the HMenu object associated with the main dialogs 'Window File 19' menu entry
Read only property	pHMessageBox()	HMsgBox	Returns an object reference to the Message Box object (HMessageBox)
Read only property	pHRadMainROITo ols()	HRadios	Returns an object reference to the HRadios object associated with the main dialogs 'ROI Tools' radiobutton group
Read only property	pHSequence()	HSequenc e	Returns an object reference to the Sequence object (HSequence)
Read only property	pHSystemScaling(HSystemS caling	Returns an object reference to the System Scaling object (HSystemScaling)
Read only property	pHTabAllOpt()	HTab	Returns an object reference to the HTab object associated with the all options dialogs 'Option' tab group
Read only property	pHWinAllOptAcq(HWindow	Returns an object reference to the HWindow object associated with the all options acquisition picture box
Read only property	pHWinAllOptDlg()	HWindow	Returns an object reference to the HWindow object associated with the all options main window
Read only property	pHWinAllOptGen eral()	HWindow	Returns an object reference to the HWindow object associated with the all options general picture box
Read only property	pHWinAllOptImag es()	HWindow	Returns an object reference to the HWindow object associated with the all options images picture box
Read only property	pHWinAllOptSequ ence()	HWindow	Returns an object reference to the HWindow object associated with the all options sequence picture box
Read only property	pHWinMainClient Area()	HWindow	Returns an object reference to the HWindow object associated with the main windows client area picture box
Read only property	pHWinMainDlg()	HWindow	Returns an object reference to the HWindow object associated with the main dialogs main window
Read only property	pHWinOptDlg()	HWindow	Returns an object reference to the HWindow object associated with the options main window
Read only property	pHWinOptOptions ()	HWindow	Returns an object reference to the HWindow object associated with the options dialogs options picturebox
Read only property	piAcquisitionMod ule()	Integer	Returns the computers acquisition module. Possible values are defined Returns the computers acquisition module. Possible values are defined in the enumeration AcquisitionModule.
Read only property	piApplicationType	Integer	Returns the application type. Possible values are defined

	0		in the enumeration ApplicationType
Read only property	piCameraTyp()	Integer	Returns the camera type. Possible values are defined in
rious sinj propertj	prominerary p()	1110801	the enumeration CameraType.
Read only property	piFrameGrabber()	Integer	Sets or returns the computers frame grabber. Possible
rious sinj propertj	pir rume orace er ()	1110801	values are defined in the enumeration FrameGrabber.
Read only property	piOperatingSystem	Integer	Returns the operating system (Win95 = 1, WINNT =
read only property	()	integer	2)\r\n
Read only property	pobjHCamera()	Object	Returns an object reference to the camera object. Its type
Read only property	poojii camera()	Object	is dependent on the used camera
Read only property	psAppDate()	String	Returns the application date.
Read only property	psApplicationDire	String	Returns the application directory.
Read only property	ctory()	String	Returns the application directory.
Read only property	psApplicationStrin	String	Returns a string identifying the application
Read only property	g()	String	Returns a string identifying the application
Read only property	psAppTitle()	String	Returns the title of the application.
Read only property	psAppTitle() psAppTitleLong()	String	Returns the long version of the title of the application
Read only property	psConfigFile()	String	Sets or returns the frame grabbers configuration file.
Read only property			Ŭ Ŭ
Read only property	psIniFile()	String	Sets or returns the name of the *.ini file used for storage
D 1 1		Curio -	of permanent parameters.
Read only property	psSoftwareVersion	String	Returns the software version
D 1 1	()	G. :	D 4 W 1 1 4 C4 4 1
Read only property	psWindowsDirecto	String	Returns the Windows directory of the computer where
D 1/ 1/	ry()	T .	the component runs
Read/write property	pfOptionLUTTool(Integer	Sets or returns a value which defines whether the LUT
~)	_	tool should be shown on the main window
Read/write property	pfOptionRestoreW	Integer	Sets or returns a value which defines whether window
	indowPos()		positions should be restored or not when \r\r\nthe
			window is reactivated
Read/write property	pfOptionUserFunct	Integer	Sets or returns a value which defines whether the User
	ions()		function is called or not
Read/write property	pfRestoreWindow	Integer	Sets or returns a value which defines whether the
	Pos()		window position, its size and window state is restored
			when the window is displayed again after it has been
			closed
Read/write property	pfUserIF()	Integer	Sets or returns a value which defines whether the
			associated window should be shown on screen. A
			window is only displayed under the following condition:
			pfUserIF=TRUE, pfVisible=TRUE,
7 1/ 1:	10 1 7 1	•	pfHideForm=FALSE
Read/write property	plOptionBackgrou	Long	Sets or returns a value which defines the background
T .	ndColor()	T	color
Function	pfReadFile(ByVal	Byte,	Reads the content of a file stored at the remote computer
	sFileName As	ByRef	
	String, bArray()	lLength	
		As Long,	
		Optional	
		sError As	
T	AXX	Variant)	XXX to GI and
Function	pfWriteFile(ByVal	Byte,	Writes a file at the remote computer
	sFileName As	ByRef	
	String, bArray()	lLength	
		As Long,	
		ByVal	
		fDontOve	
		rwrite As	
		Integer,	
		Optional	
		sError As	
		sError As Variant)	
Function	piEndProg()	sError As	Ends the program. This should be the last method in the application program

Function	psErrorString(ByV al Index As	String	Returns a string explaining the error with the specified error code
	Integer)	~ .	
Function	psGetStatus()	String	Returns the current application status string
Sub	pUserFunction(By Val iIndex As Integer, ByVal ICycleIndex As Long, ByRef sOut As String, ByVal fGetMemoryPrope rties As Integer)		Executes User Function. This function is kept for compatibility reason. It is no longer recommended to use this function

HImage

HImage			
Read only property	pfDataSaved()	Integer	Returns a flag defining whether the image data has been saved
Read only property	pfDisplayOnVGA(Integer	Returns a flag defining whether the Image is displayed in the screen
Read only property	pfImageValid()	Integer	Returns a flag which defines whether the image contains vaild data
Read only property	pHImaImgArea()	HImageA rea	Returns an object reference to the images HImageArea object
Read only property	pHWinImgDlg()	HWindow	Returns an object reference to the images main dialog HWindow object
Read only property	pHWinImgPicture(HWindow	Returns an object reference to the images picture area HWindow object. This is the location where the image is displayed
Read only property	piBytesPerPixel()	Integer	Returns a value defining the number of bytes per pixel used to store the image
Read only property	piMaxScalingX()	Integer	Returns a value which defines the maximum pixel index useable for scaling in x direction
Read only property	piReside()	Integer	Returns a value which defines where the image data resides. Possible values are described in the enumeration ImageResidence
Read only property	pisdImage()	HImageSc alingData	Returns an object variable to the HImageScalingData object describing the scaling data associated with this image
Read only property	plDataBytes()	Long	Returns the number of bytes in the image data
Read only property	plDataHandle()	Long	Returns the handle to the image data
Read only property	plDisplayBytes()	Long	Returns the number of bytes in the image display data
Read only property	plDisplayHandle()	Long	Returns the handle to the image display data
Read/write property	pfDisplayDataVali d()	Long	Returns a flag defining whether the display data is valid or not. If true pDisplayImage does not recalculate the display data
Read/write property	pfRestoreWindow Pos()	Integer	Sets or returns a value which defines whether the window position, its size and window state is restored when the window is displayed again after it has been closed
Read/write property	pfUserIF()	Integer	Sets or returns a value which defines whether the associated window should be shown on screen. A window is only displayed under the following condition: pfUserIF=TRUE, pfVisible=TRUE, pfHideForm=FALSE
Read/write property		Integer	Returns a value defining the data type to store the image
Read/write property	psFileName()	String	Returns the images file name
Read/write property	psStatus()	String	Returns the image status string
Function	pfCreateEmptyIma ge(ByVal iX As Integer, ByVal iY As Integer, ByVal iDX As Integer,	Integer	Creates an empty (black) image

	ByVal iDY As		
	Integer, ByVal		
	iBytesPerPixel As		
	Integer, ByVal		
	sFileName As		
	String, Optional		
	fShow As Variant)		
Function	pfDumpDataToFil e(ByVal	Integer	Dumps the image or display data to a file. This can be used to exchange data to and from an ActiveX-EXE file
	fDumpDisplayDat		
	a As Integer,		
	ByVal sFile As		
	String, ByVal		
	fOverwrite As		
	Integer, ByVal		
	fFullImage As		
	Integer, ByVal X		
	As Integer, ByVal		
	Y As Integer,		
	ByVal dx As		
	Integer, ByVal dy		
	As Integer)		
Function	pfGetDisplayData(Byte,	Gets the display data (8 bit) within a specified area of the
	ByVal iX As	Optional	image
	Integer, ByVal	sError As	
	iDX As Integer,	Variant)	
	ByVal iY As	As Integer	
	Integer, ByVal		
	iDY As Integer,		
	ByRef		
	bImgDisplay()		
Function	pfGetImageData1	Byte,	Gets 1byte/pixel data (8 bit) within a specified area of
	Byte(ByVal iX As	Optional	the image. If the image contains another type of data an
	Integer, ByVal	sError As	error is returned
	iDX As Integer,	Variant)	
	ByVal iY As	As Integer	
	Integer, ByVal		
	iDY As Integer,		
	ByRef bImgData()		
Function	pfGetImageData2	Integer,	Gets 2byte/pixel data (16 bit) within a specified area of
	Byte(ByVal iX As	Optional	the image. If the image contains another type of data an
	Integer, ByVal	sError As	error is returned
	iDX As Integer,	Variant)	
	ByVal iY As	As Integer	
	Integer, ByVal		
	iDY As Integer,		
D .:	ByRef iImgData()	T	
Function	pfGetImageData4	Long,	Gets 4byte/pixel data (32 bit) within a specified area of
	Byte(ByVal iX As	Optional	the image. If the image contains another type of data an
	Integer, ByVal	sError As	error is returned
	iDX As Integer,	Variant)	
	ByVal iY As	As Integer	
	Integer, ByVal		
	iDY As Integer,		
Eumotic ::	ByRef lImgData()	Interne	Detume a miral intensity and in
Function	pfGetPointIntensit	Integer	Returns a pixel intensity value
	y(ByVal iX As		
	Integer, ByVal iY As Integer, ByRef		
ì	LACTINGGOT BURGE	i .	1
	IIntensity As Long)		

Function	pfLoadImage(Opti onal sFile As Variant, Optional fShow As Variant)	Integer	Loads an image
Function	pfMemGetPRFDat a(ByRef lProfile()	Long, ByRef iNrData As Integer, ByVal iX As Integer, ByVal iY As Integer, ByVal iDX As Integer, ByVal iDY As Integer, ByVal iDY As Integer, ByVal iProfileTy pe As Integer, ByRef iDatType As Integer, ByVal iMaxLen As Integer, ByRef sError As String) As Integer	Returns an array of profile values within a specified ROI
Function	pfSaveImage(Opti onal sFile As Variant, Optional sAreDefault As Variant, Optional fSaveROI As Variant)	Integer	Saves the image
Function	pfSetImageData1B yte(ByVal iX As Integer, ByVal iDX As Integer, ByVal iY As Integer, ByVal iDY As Integer, ByRef bImgData()	Byte, Optional sError As Variant) As Integer	Sets 1byte/pixel data (8 bit) within a specified area of the image. If the image contains another type of data an error is returned
Function Function	pfSetImageData2B yte(ByVal iX As Integer, ByVal iDX As Integer, ByVal iY As Integer, ByVal iDY As Integer, ByRef iImgData() pfSetImageData4B	Integer, Optional sError As Variant) As Integer	Sets 2byte/pixel data (8 bit) within a specified area of the image. If the image contains another type of data an error is returned Sets 4byte/pixel data (8 bit) within a specified area of the

	(D. 11.1.11.4	0 1 1	TC.1
	yte(ByVal iX As	Optional	image. If the image contains another type of data an error
	Integer, ByVal	sError As	is returned
	iDX As Integer,	Variant)	
	ByVal iY As	As Integer	
	Integer, ByVal		
	iDY As Integer,		
	ByRef lImgData()		
Function	pfSetPointIntensity	Integer	Sets a pixel intensity value
	(ByVal iX As		
	Integer, ByVal iY		
	As Integer, ByVal		
	lIntensity As		
	Long)		
Function	piGetMaxBit()	Integer	Returns the number of the topmost bit which is set
Function	psStatusGetSection	String	Returns the specified section within the image status
1 unction	(ByVal	Sumg	string
	sSectionIdentifier		String
E	As String)	Curio -	Determine the latest termine to the latest termine t
Function	psStatusGetString(String	Returns a string associated to a specified token and
	ByVal		section within the image status string
	sSectionIdentifier		
	As String, ByVal		
	sToken As String,		
	ByVal sDefault As		
	String)		
Sub	pAsyncLoadImage		Loads an image asynchronously
	(Optional sFile As		
	Variant, Optional		
	fShow As Variant)		
Sub	pAsyncSaveImage		Saves the image asynchronously
	(Optional sFile As		
	Variant, Optional		
	sAreDefault As		
	Variant, Optional		
	fSaveROI As		
	Variant)		
Sub	pDisplayImage()		Displays the current image in the already shown window
Sub	pGetareSource(By		Returns the source area of the image
Sub	Ref iX As Integer,		Returns the source area of the image
	ByRef iY As		
	Integer, ByRef		
	iDX As Integer,		
	ByRef iDY As Integer)		
C.,L	<u> </u>		Coto the images scaling info in V dimention
Sub	pGetScalingXInfo(Gets the images scaling info in X direction
	ByRef iType As		
	Integer, ByRef		
	ftScale As Single,		
	ByRef sUnit As		
	String, ByRef		
	sScalingFile As		
	String)		
Sub	pGetScalingYInfo(Gets the images scaling info in Y direction
	ByRef iType As		
	Integer, ByRef		
	ftScale As Single,		
	ByRef sUnit As		
	String, ByRef		
	sScalingFile As		
	String)		
Sub	pPrint(ByVal		Prints the image
	1 F	İ	1

	hwndOwner As Long)	
Sub	pRemoveImage()	Removes the image. This frees all associated memory.
Suo	premoverniage()	All memory handles become invalid afterwards
Sub	psGetPointScaling(Returns the scaling oft the indicated pixel, the resulting
	ByVal iX As	value for every direction stored in one string
	Integer, ByVal iY	
	As Integer, ByRef	
	sX As String,	
	ByRef sY As	
	String)	
Sub	psGetPointScaling	Returns the scaling oft the indicated pixel, the resulting
	XY(ByVal iX As	value for every direction stored in a numerical value and
	Integer, ByVal iY	a string
	As Integer, ByRef	
	ftXValue As	
	Single, ByRef	
	sXUnit As String,	
	ByRef ftYValue	
	As Single, ByRef	
	sYUnit As String)	
Sub	psGetWidthScalin	Returns the distance of two pixels in scaled units
	g(ByVal iX As	
	Integer, ByVal iY	
	As Integer, ByVal	
	iDX As Integer,	
	ByVal iDY As	
	Integer, ByRef sX	
	As String, ByRef	
a 1	sY As String)	
Sub	pShowImage(ByV	Shows the image. This places the associated window on
	al fAdjust As	screen
0.1	Integer)	XXI'. d 'C' 1 d' 'd' d
Sub	pStatusWriteSectio	Writes the specified section within the image status
	n(ByVal sSection	string
C-1	As String)	With a string and in the string of the string of
Sub	pStatusWriteString	Writes a string associated to a specified token and
	(ByVal	section within the image status string
	sSectionIdentifier	
	As String, ByVal	
	sToken As String,	
	ByVal sValue As	
	String, Optional	
TTT	fAddQuotes)	

HImages

Event	CloseSequenceIma ge(ByVal Index As Integer, ByVal Mode As Integer, ByRef Cancel As Integer, ByRef SaveQueryDone As Integer, ByRef ImageRemoved As Integer)	Event which is sent to tell other objects that a sequence image will now be closed. This event is used by the HSequence object to free all related memory
Event	CurrentImageChan ged(ByVal iImg As Integer)	Event which is raised when the current image changes
Event	FileNameChanged (ByVal iImg As Integer)	Event which is raised when the File name has changed

Event	ImageDataChange d(ByVal iImg As Integer)		Event which is raised when the image data has changed
Event	ImagePainted(ByV al iImg As Integer, ByVal ftFWHM As Single, ByVal sUnit As String)		Event which is raised when the image has been painted
Event	ImageRemoved(B yVal Index As Integer)		Event which is raised when the image has been removed
Event	Message(ByVal sMessage As String)		Event which is raised to inform the user of ongoing operations
Event	RemoveImage(By Val Index As Integer, ByRef Cancel As Integer)		Event which is raised when an image will be removed
Read only property	pcItem(ByVal Index As Integer)	HImage	Returns a reference to the specified image
Read only property	pcItemCurrent()	HImage	Returns a reference to the currently active image. If no image is currently active this function does not return any value.
Read only property	pfFixedITEXHead er()	Integer	Sets or returns a value defining whether images are saved with a fixed header (10K) in the case ITEX file type is used
Read only property	pHChkOptAcqToS ameWnd()	HCheck	Returns an object reference to the HCheck object associated with the options dialogs 'Acquire Always To Same Window' checkbox
Read only property	pHChkOptAutoLiv eLUT()	HCheck	Returns an object reference to the HCheck object associated with the options dialogs 'Auto Live LUT' checkbox
Read only property	pHChkOptAutoLU T()	HCheck	Returns an object reference to the HCheck object associated with the options dialogs 'Auto LUT' checkbox
Read only property	pHChkOptAutoLut InROI()		
Read only property	pHChkOptDisplay FWHM()	HCheck	Returns an object reference to the HCheck object associated with the options dialogs 'Display FWHM' checkbox
Read only property	pHChkOptFixedIT EXHeader()	HCheck	Returns an object reference to the HCheck object associated with the options dialogs 'Fixed ITEX header' checkbox
Read only property	pHChkOptROIUse MinAsZero()	HCheck	Returns an object reference to the HCheck object associated with the options dialogs 'Use Minimum as zero for ROI' checkbox
Read only property	pHChkOptWarnU nsaved()	HCheck	Returns an object reference to the HCheck object associated with the options dialogs 'Warn Whne Unsaved Images Are Closed' checkbox
Read only property	pHChkOptZeroLo wer()	HCheck	
Read only property	pHChkRoiCalibrat ed()	HCheck	Returns an object reference to the HCheck object associated with the ROI Interface dialogs 'Calibrated' checkbox
Read only property	pHComFWHMCol or()	HComma nd	Returns an object reference to the HCheck object associated with the options dialogs 'FWHM color' checkbox
Read only property	pHComOptCancel(HComma nd	Returns an object reference to the HCheck object associated with the options dialogs 'Cancel' checkbox
Read only property	pHComOptOK()	HComma nd	Returns an object reference to the HCheck object associated with the options dialogs 'OK' checkbox
Read only property	pHDisRoiAreaSize	HDisp	Returns an object reference to the HDisp object

	()		associated with the ROI interface dialogs 'Area Size'
			display area
Read only property	pHDisRoiDiagonal	HDisp	Returns an object reference to the HDisp object associated with the ROI interface dialogs 'Diagonal' display area
Read only property	pHDisRoiIntensity ()	HDisp	Returns an object reference to the HDisp object associated with the ROI interface dialogs 'Intensity' display area
Read only property	pHDisRoiSlope()	HDisp	Returns an object reference to the HDisp object associated with the ROI interface dialogs 'Slope' display area
Read only property	pHDisRoiXUnit()	HDisp	Returns an object reference to the HDisp object associated with the ROI interface dialogs 'X Unit' display area
Read only property	pHDisRoiYUnit()	HDisp	Returns an object reference to the HDisp object associated with the ROI interface dialogs 'Y Unit' display area
Read only property	pHEdnOptFWHM NoOfDigits()	HEditNu mber	Returns an object reference to the HEditNumber object associated with options dialogs 'FWHM No. of Digits' editbox
Read only property	pHEdnOptFWHM Size()	HEditNu mber	options dialogs 'FWHM Size' editbox
Read only property	pHEdnRoiXEnd()	HEditNu mber	Returns an object reference to the HEditNumber object associated with ROI interface dialogs 'X End' editbox
Read only property	pHEdnRoiXStart()	HEditNu mber	Returns an object reference to the HEditNumber object associated with ROI interface dialogs 'X Start' editbox
Read only property	pHEdnRoiXWidth ()	HEditNu mber	Returns an object reference to the HEditNumber object associated with ROI interface dialogs 'X Width' editbox
Read only property	pHEdnRoiYEnd()	HEditNu mber	Returns an object reference to the HEditNumber object associated with ROI interface dialogs 'Y End' editbox
Read only property	pHEdnRoiYStart()	HEditNu mber	Returns an object reference to the HEditNumber object associated with ROI interface dialogs 'Y Start' editbox
Read only property	pHEdnRoiYWidth ()	HEditNu mber	Returns an object reference to the HEditNumber object associated with ROI interface dialogs 'Y Width' editbox
Read only property	pHFraOptROIPrf()	HFrame	Returns an object reference to the HFrame object associated with the options dialogs 'ROI profile default direction' frame
Read only property	pHRadOptDefZoo mFactor()	HRadios	Returns an object reference to the HFrame object associated with the options dialogs 'Default Zoom factor' frame
Read only property	pHRadOptROIPrf(HRadios	Returns an object reference to the HRadios object associated with the options dialogs 'ROI profile default direction' radiobutton group
Read only property	pHRadRoiPrfDirec tion()	HRadios	Returns an object reference to the HRadios object associated with the ROI interface dialogs 'ROI profile direction' radiobutton group
Read only property	pHWinImgDlg20A rray()	HWindow 20Array	Returns an object reference to the HWindow20Array object associated with the images main windows
Read only property	pHWinImgPicture 20Array()	HWindow 20Array	Returns an object reference to the HWindow20Array object associated with the images imagedisplay pictureboxes
Read only property	pHWinOptDlg()	HWindow	Returns an object reference to the HWindow object associated with the options dialogs main window
Read only property	pHWinOptOptions ()	HWindow	Returns an object reference to the HWindow object associated with the options dialogs options picturebox
Read only property	pHWinRoiDlg()	HWindow	Returns an object reference to the HWindow object associated with the ROI interface dialogs main window
Read only property	piCurrentImageVal id()	Integer	Returns a value which defines whether the current image is valid
Read only property	piIndexCurrentImg ()	Integer	Returns the image index of the current image.

Read only property	piIndexLoadImg()	Integer	Returns the image index of the currently or last loaded image.
Read only property	piIndexSequenceI mg()	Integer	Returns the image index of the sequence image. If there is no sequence image the value is -1
Read only property	piItemsMax()	Integer	Returns the maximum number of images.
Read only property	psDefaultScalingD irectory()	String	Returns the default scaling directory. This is only necessary for old type file where scaling tabels are not saved in the image and only a file reference is stored in the image
Read/write property	pfDisplayToTIFF Mode()	Integer	Sets or returns a value defining whether images are saved in DisplayToTiff mode in the case TIFF is selected as the file type
Read/write property	pfOptionsAcqToSa meWnd()	Integer	Sets or returns a value which defines whether the acquisition should always be done in the same window
Read/write property	pfOptionsAutoLiv eLUT()	Integer	Sets or returns a value which defines whether AUTO Live LUT should be excuted during Live mode
Read/write property	pfOptionsAutoLU T()	Integer	Sets or returns a value which defines whether Auot LUT should be excuted aftre image acquisition
Read/write property	pfOptionsAutoLutI nROI()	Integer	
Read/write property	pfOptionsDisplayF WHM()	Integer	
Read/write property	pfOptionsFixedIT EXHeader()	Integer	Sets or returns a value which defines whether the image should be saved with fixed header
Read/write property	pfOptionsROIUse MinAsZero()	Integer	Sets or returns a value which defines whether the minimum should be used as zero point for FWHM calculation
Read/write property	pfOptionsWarnUn saved()	Integer	Sets or returns a value which defines whether the user should be warned when an unsaved image is closed
Read/write property	pfOptionsZeroLow er()	Integer	
Read/write property	pfRestoreWindow Pos()	Integer	Sets or returns a value which defines whether the window position, its size and window state is restored when the window is displayed again after it has been closed
Read/write property	pftOptionsDefZoo mFactor()	Single	Sets or returns the default zooming factor
Read/write property	pfUserIF()	Integer	Sets or returns a value which defines whether the associated window should be shown on screen. A window is only displayed under the following condition: pfUserIF=TRUE, pfVisible=TRUE, pfHideForm=FALSE
Read/write property	piDefaultImageTy pe()	Integer	Sets or defines the current default image type
Read/write property	piIndexAcqImg()	Integer	Returns the image index of the currently or last acquired image
Read/write property	piIndexAcquireIm g()	Integer	Returns the image index of the currently or last ACQUIRE image. This is every acquired single image except the live image
Read/write property	piIndexLiveImg()	Integer	Returns the image index of the currently or last LIVE image.
Read/write property	piOptionFWHMN oOfDigits()	Integer	
Read/write property	piOptionFWHMSi ze()	Integer	
Read/write property	piOptionsROIPrf()	Integer	
Read/write property	piSeqMode()	Integer	Sets or returns the default value of SeqMode for the functions piGetLoadImageFile and piGetLoadImageFile. If SeqMode=TRUE these function offer sequence mode file types as default

Read/write property	plOptionFWHMC olor()	Long	
Function	pfLoadImage(Opti onal sFile As Variant, Optional fShow As Variant, Optional iImgIndex As Integer)	Integer	Loads an image
Function	pfLoadImageNoSh ow(ByVal sFile As String, ByVal iType As Integer, ByRef iImg As Integer)	Integer	Loads an image without showing it
Function	pfSaveImage(Opti onal sFile As Variant, Optional sAreDefault As Variant, Optional fSaveROI As Variant)	Integer	Saves an image
Function	pfUpdateImageAft erDataChange(By Val iImg As Integer, Optional sError As Variant)		A function that updates all relevant modules after the client programmer has changed the image data, its size, data depth or status
Function	piGetLoadImageFi le(ByRef sCompleteFile As String, ByRef iDefaultImageTyp e As Integer, ByRef fDoSeqSaveLoad As Integer, ByRef iSeqMode As Integer, ByVal iImageTypes As Integer)	Integer	Calls a file dialog which can be used to get an image file name for load
Function	piGetSaveImageFil e(ByRef sCompleteFile As String, ByRef sComment As String, ByRef iDefaultImageTyp e As Integer, ByRef fDoSeqSaveLoad As Integer, ByRef iSeqMode As Integer, ByRef fDisplayToTIFFM ode As Integer, ByVal iImageTypes As Integer, ByVal iNumberOfDigitsF orSequence As Integer)	Integer	Calls a file dialog which can be used to get an image file name for save

Function	psGetMemoryProp erties()	String	Returns as string which contains information about the image. Avoid using this function, it is only used for compatibility reasons
Sub	pAsyncLoadImage (Optional sFile As Variant, Optional fShow As Variant)		Loads an image asynchronously
Sub	pAsyncSaveImage (Optional sFile As Variant, Optional sAreDefault As Variant, Optional fSaveROI As Variant)		Saves an image asynchronously
Sub	pChangeActiveIma ge(ByVal iImg As Integer, ByVal fDisplayImage As Integer, Optional fDontSetFocus As Variant)		Changes the active image
Sub	pGetFWHMProper ties(ByRef fDisplayFWHM As Integer, ByRef lColor As Long, ByRef iFontSize As Integer, ByRef iNoOfDigits As Integer)		Returns all relevant informations for writing the FWHM assoziated with the quick profile
Sub	pPrint(ByVal hwndOwner As Long)		Prints an image

HLutControl

Event	LimitsChanged()		Event which is raised when the limits of the HLut object are changing
Read only property	pHEdnLUTParGa mma()	HEditNu mber	Returns an object reference to the HEditNumber object associated with LUT Parameters dialogs ""Gamma"" editbox
Read only property	phEdnLUTParLut1 6xShift()	HEditNu mber	Returns an object reference to the HEditNumber object associated with LUT Parameters dialogs ""Shift for 16x LUT"" editbox
Read only property	pHEntLUTParOvl Colors()	HEntry	Returns an object reference to the HEntry object associated with the LUT parameters dialogs ""Overlay Colors" entrybox
Read only property	pHLutLUTContrC ontrol()	HLut	Returns an object reference to the HLut object associated with the LUT Control dialogs ""Control"" entrybox
Read only property	pHRadLUTParBit Range()	HRadios	Returns an object reference to the HRadios object associated with the LUT Parameters dialogs ""Bit Range""
Read only property	pHRadLUTParCol or()	HRadios	Returns an object reference to the HRadios object associated with the LUT Parameters dialogs ""Color""
Read only property	pHRadLUTParLU TType()	HRadios	Returns an object reference to the HRadios object associated with the LUT Parameters dialogs ""LUT Type""
Read only property	pHWinLUTContr Dlg()	HWindow	Returns an object reference to the HWindow object associated with the LUT Control dialogs main window
Read only property	pHWinLUTParDlg ()	HWindow	Returns an object reference to the HWindow object associated with the LUT Parameters dialogs main window
Read/write property	pfRestoreWindow	Integer	Sets or returns a value which defines whether the

	Pos()		window position, its size and window state is restored when the window is displayed again after it has been closed
Read/write property	pfUserIF()	Integer	Sets or returns a value which defines whether the associated window should be shown on screen. A window is only displayed under the following condition: pfUserIF=TRUE, pfVisible=TRUE, pfHideForm=FALSE
Function IIC - Sealing	psGetStatus()	String	Returns the current LUT status string
HSystemScaling		1	
Event	Message(ByVal sMessage As String)		Event which is raised to inform the user of ongoing operations
Read only property	pHChkScalSetAss gnScalToImg()	HCheck	Returns an object reference to the HCheck object associated with the Scaling Setup dialogs 'Assign Scaling To Image' checkbox
Read only property	pHChkScalSetAss gnScalToPrf()	HCheck	Returns an object reference to the HCheck object associated with the Scaling Setup dialogs 'Assign Scaling To Profile' checkbox
Read only property	pHComCreaPolyC ancel()	HComma nd	Returns an object reference to the HCommand object associated with the create polynomial dialogs 'Cancel' pushbutton
Read only property	pHComCreatePol OK()	HComma nd	Returns an object reference to the HCommand object associated with the create polynomial dialogs 'OK' pushbutton
Read only property	pHComScalEditNe xtPixel()	HComma nd	Returns an object reference to the HCommand object associated with the scaling editor dialogs 'Next Pixel' pushbutton
Read only property	pHComScalEditPr eviousPixel()	HComma nd	Returns an object reference to the HCommand object associated with the scaling editor dialogs 'Previous Pixel' pushbutton
Read only property	pHComScalSetCan cel()	HComma nd	Returns an object reference to the HCommand object associated with the scaling setup dialogs 'Cancel' pushbutton
Read only property	pHComScalSetFre eGetFromImage()	HComma nd	Returns an object reference to the HCommand object associated with the scaling setup dialogs 'Free Scaling Get From Image' pushbutton
Read only property	pHComScalSetFre eHFileGet()	HComma nd	Returns an object reference to the HCommand object associated with the scaling setup dialogs 'Free Scaling Horizontal Get File' pushbutton
Read only property	pHComScalSetFre eHPixelGet()	HComma nd	Returns an object reference to the HCommand object associated with the scaling setup dialogs 'Free Scaling Horizontal Get Pixel' pushbutton
Read only property	pHComScalSetFre eVFileGet()	HComma nd	Returns an object reference to the HCommand object associated with the scaling setup dialogs 'Free Scaling vertical Get File' pushbutton
Read only property	pHComScalSetFre eVPixelGet()	HComma nd	Returns an object reference to the HCommand object associated with the scaling setup dialogs 'Free Scaling vertical Get Pixel' pushbutton
Read only property	pHComScalSetSet(HComma nd	Returns an object reference to the HCommand object associated with the scaling setup dialogs 'Set' pushbutton
Read only property	pHComScalSetSet SpectrographScali ng()	HComma nd	Returns an object reference to the HCommand object associated with the scaling setup dialogs 'Set Spectrograph Scaling' pushbutton
Read only property	pHComScalSetSqu areGetFromImage()	HComma nd	Returns an object reference to the HCommand object associated with the scaling setup dialogs 'Square Scaling Get From Image' pushbutton
Read only property	pHComScalSetSqu areGetPixel()	HComma nd	Returns an object reference to the HCommand object associated with the scaling setup dialogs 'Square Scaling Get Pixel' pushbutton

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Read only property	pHComScalSetStre akSetTimeScaling(HComma nd	Returns an object reference to the HCommand object associated with the scaling setup dialogs 'Streak Scaling
)	110	Set Time Scaling' pushbutton
Read only property	pHComScalSetStre	HComma	Returns an object reference to the HCommand object
	akTFFileGet()	nd	associated with the scaling setup dialogs 'Streak Scaling
Dood only manager	nHComCoolCotCt	HComma	Time/Focus Get File' pushbutton
Read only property	pHComScalSetStre akTFPixelGet()	nd nd	Returns an object reference to the HCommand object associated with the scaling setup dialogs 'Streak Scaling
	ak III ixeloci()	iid	Time/Focus Get Pixel' pushbutton
Read only property	pHComScalSetStre	HComma	Returns an object reference to the HCommand object
	akXFileGet()	nd	associated with the scaling setup dialogs 'Streak Scaling
D 1 1	77G G 10 G	110	X-Direction Get File' pushbutton
Read only property	pHComScalSetStre akXPixelGet()	HComma nd	Returns an object reference to the HCommand object associated with the scaling setup dialogs 'Streak Scaling
	akArixeiGei()	IIG	X-Direction Get Pixel' pushbutton
Read only property	pHComSpecScalA	HComma	Returns an object reference to the HCommand object
71 1 7	ssign()	nd	associated with the spectrograph scaling dialogs 'Assign'
			pushbutton
Read only property	pHComSpecScalCl	HComma	Returns an object reference to the HCommand object
	ose()	nd	associated with the spectrograph scaling dialogs 'Close' pushbutton
Read only property	pHComSpecScalD	HComma	Returns an object reference to the HCommand object
Fropoity	efinePosWave1()	nd	associated with the spectrograph scaling dialogs 'Define
			Position Wavelength 1' pushbutton
Read only property	pHComSpecScalD	HComma	Returns an object reference to the HCommand object
	efinePosWave2()	nd	associated with the spectrograph scaling dialogs 'Define
Read only property	pHComSpecScalD	HComma	Position Wavelength 2' pushbutton Returns an object reference to the HCommand object
Read only property	ispersion()	nd	associated with the spectrograph scaling dialogs 'Set
	1		Dispersion' pushbutton
Read only property	pHComSpecScalG	HComma	Returns an object reference to the HCommand object
	etCenterWavePix()	nd	associated with the spectrograph scaling dialogs 'Get
Read only property	pHComTimScalAs	HComma	Center Wavelength' pushbutton Returns an object reference to the HCommand object
Read only property	signStreakScaling(nd	associated with the time scaling dialogs 'Assign Streak
)		Scaling' pushbutton
Read only property	pHComTimScalCl	HComma	Returns an object reference to the HCommand object
	ose()	nd	associated with the time scaling dialogs 'Close'
Read only property	pHComTimScalGe	HComma	pushbutton Returns an object reference to the HCommand object
Tions only property	tFromTextFile()	nd	associated with the time scaling dialogs 'Get From Text
			File' pushbutton
Read only property	pHComTimScalStr	HComma	Returns an object reference to the HCommand object
	eakTFileGet()	nd	associated with the time scaling dialogs 'Streak Scaling
Read only property	pHComTimScalStr	HComma	Time/Focus Get File' pushbutton Returns an object reference to the HCommand object
Read only property	eakTPixelGet()	nd	associated with the time scaling dialogs 'Streak Scaling
			Time/Focus Get Pixel' pushbutton
Read only property	pHDisScalEditFile	HDisp	Returns an object reference to the HDisp object
	Name()		associated with the scaling editor dialogs 'File Name'
Dand only number	pUDisCaslEditMa	ПDian	display area Potures an object reference to the HDisp object
Read only property	pHDisScalEditMo de()	HDisp	Returns an object reference to the HDisp object associated with the scaling editor dialogs 'Mode' display
			area
Read only property	pHDisScalEditPixe	HDisp	Returns an object reference to the HDisp object
	1()		associated with the scaling editor dialogs 'Pixel' display
D 1 1	IID' G IE TATA	IID.	area
Read only property	pHDisScalEditVal	HDisp	Returns an object reference to the HDisp object associated with the scaling editor dialogs 'Value' display
	ue()		area
Read only property	pHDisScalEditXA	HDisp	Returns an object reference to the HDisp object
		-	

	xis()		associated with the scaling editor dialogs 'X Axis' display area
Read only property	pHDisScalEditYA xis()	HDisp	Returns an object reference to the HDisp object associated with the scaling editor dialogs 'Y Axis' display area
Read only property	pHDisScalSetCurr entHUnit()	HDisp	Returns an object reference to the HDisp object associated with the scaling setup dialogs 'Current Horizontal Unit' display area
Read only property	pHDisScalSetCurr entHValue()	HDisp	Returns an object reference to the HDisp object associated with the scaling setup dialogs 'Current Horizontal Value' display area
Read only property	pHDisScalSetCurr entVUnit()	HDisp	Returns an object reference to the HDisp object associated with the scaling setup dialogs 'Current Vertical Unit' display area
Read only property	pHDisScalSetCurr entVValue()	HDisp	Returns an object reference to the HDisp object associated with the scaling setup dialogs 'Current Vertical value' display area
Read only property	pHDisScalSetTFDi rection()	HDisp	Returns an object reference to the HDisp object associated with the scaling setup dialogs 'Time/Focus Direction' display area
Read only property	pHDisScalSetXDir ection()	HDisp	Returns an object reference to the HDisp object associated with the scaling setup dialogs 'X Direction' display area
Read only property	pHDisSpecScalSpe ctrograph()	HDisp	Returns an object reference to the HDisp object associated with the spectrograph scaling dialogs 'Spectrograph' display area
Read only property	pHEdnCreaPolyCo efficient1()	HEditNu mber	Returns an object reference to the HEditNumber object associated with create polynomial dialogs 'Coefficient 1' editbox
Read only property	pHEdnCreaPolyCo efficient2()	HEditNu mber	Returns an object reference to the HEditNumber object associated with create polynomial dialogs 'Coefficient 2' editbox
Read only property	pHEdnCreaPolyCo efficient3()	HEditNu mber	Returns an object reference to the HEditNumber object associated with create polynomial dialogs 'Coefficient 3' editbox
Read only property	pHEdnCreaPolyCo efficient4()	HEditNu mber	Returns an object reference to the HEditNumber object associated with create polynomial dialogs 'Coefficient 4' editbox
Read only property	pHEdnCreaPolyCo efficient5()	HEditNu mber	Returns an object reference to the HEditNumber object associated with create polynomial dialogs 'Coefficient 5' editbox
Read only property	pHEdnCreaPolyOr der()	HEditNu mber	Returns an object reference to the HEditNumber object associated with create polynomial dialogs 'Order' editbox
Read only property	pHEdnCreaPolyVa lidChannels()	HEditNu mber	Returns an object reference to the HEditNumber object associated with create polynomial dialogs 'Valid Channel' editbox
Read only property	pHEdnScalSetFree HPixel()	HEditNu mber	Returns an object reference to the HEditNumber object associated with scaling setup dialogs 'Free Scaling Horizontal Pixel' editbox
Read only property	pHEdnScalSetFree HValue()	HEditNu mber	Returns an object reference to the HEditNumber object associated with scaling setup dialogs 'Free Scaling Horizontal Value' editbox
Read only property	pHEdnScalSetFree VPixel()	HEditNu mber	Returns an object reference to the HEditNumber object associated with scaling setup dialogs 'Free Scaling Vertical Pixel' editbox
Read only property	pHEdnScalSetFree VValue()	HEditNu mber	Returns an object reference to the HEditNumber object associated with scaling setup dialogs 'Free Scaling Vertical Value' editbox
Read only property	pHEdnScalSetSqu arePixel()	HEditNu mber	Returns an object reference to the HEditNumber object associated with scaling setup dialogs 'Square Scaling Pixel' editbox

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Read only property	pHEdnScalSetSqu areValue()	HEditNu mber	Returns an object reference to the HEditNumber object associated with scaling setup dialogs 'Square Scaling Value' editbox
Read only property	pHEdnScalSetStre akTFPixel()	HEditNu mber	Returns an object reference to the HEditNumber object associated with scaling setup dialogs 'Streak Scaling Time/Focus Pixel' editbox
Read only property	pHEdnScalSetStre akTFValue()	HEditNu mber	Returns an object reference to the HEditNumber object associated with scaling setup dialogs 'Streak Scaling Time/Focus Value' editbox
Read only property	pHEdnScalSetStre akXPixel()	HEditNu mber	Returns an object reference to the HEditNumber object associated with scaling setup dialogs 'Streak Scaling X Direction Pixel' editbox
Read only property	pHEdnScalSetStre akXValue()	HEditNu mber	Returns an object reference to the HEditNumber object associated with scaling setup dialogs 'Streak Scaling X Direction Value' editbox
Read only property	pHEdnSpecScalCe nterWavePix()	HEditNu mber	Returns an object reference to the HEditNumber object associated with spectrograph scaling dialogs 'Center Wave Pixel' editbox
Read only property	pHEdnSpecScalDi spersion()	HEditNu mber	Returns an object reference to the HEditNumber object associated with spectrograph scaling dialogs 'Dispersion' editbox
Read only property	pHEdnSpecScalW ave1()	HEditNu mber	Returns an object reference to the HEditNumber object associated with spectrograph scaling dialogs 'Wavelength 1' editbox
Read only property	pHEdnSpecScalW ave2()	HEditNu mber	Returns an object reference to the HEditNumber object associated with spectrograph scaling dialogs 'Wavelength 2' editbox
Read only property	pHEdnTimScalStr eakTPixel()	HEditNu mber	Returns an object reference to the HEditNumber object associated with time scaling dialogs 'Streak Time Pixel' editbox
Read only property	pHEdnTimScalStr eakTValue()	HEditNu mber	Returns an object reference to the HEditNumber object associated with time scaling dialogs 'Streak Time Value' editbox
Read only property	pHEntScalSetSqua reProfile()	HEntry	Returns an object reference to the HEntry object associated with the scaling setup dialogs 'Square Scaling Get From Profile' entrybox
Read only property	pHEntSpecScalGra ting()	HEntry	Returns an object reference to the HEntry object associated with the spectrograph scaling dialogs 'Grating' entrybox
Read only property	pHEntTimScalPlu gin()	HEntry	Returns an object reference to the HEntry object associated with the time scaling dialogs 'Plugin' entrybox
Read only property	pHEntTimScalStre akCamera()	HEntry	Returns an object reference to the HEntry object associated with the time scaling dialogs 'Streak Camera' entrybox
Read only property	pHEntTimScalTim eRange()	HEntry	Returns an object reference to the HEntry object associated with the time scaling dialogs 'Time Range' entrybox
Read only property	pHEstScalSetFree HFile()	HEditStri ng	Returns an object reference to the HEditString object associated with the scaling setup dialogs 'Free Scaling Horizontal File' editbox
Read only property	pHEstScalSetFree HUnit()	HEditStri ng	Returns an object reference to the HEditString object associated with the scaling setup dialogs 'Free Scaling Horizontal Unit' editbox
Read only property	pHEstScalSetFree VFile()	HEditStri ng	Returns an object reference to the HEditString object associated with the scaling setup dialogs 'Free Scaling Vertical File' editbox
Read only property	pHEstScalSetFree VUnit()	HEditStri ng	Returns an object reference to the HEditString object associated with the scaling setup dialogs 'Free Scaling Vertical Unit' editbox
Read only property	pHEstScalSetScali ngDirectory()	HEditStri ng	Returns an object reference to the HEditString object associated with the scaling setup dialogs 'Free Scaling

			Horizontal File' editbox
Read only property	pHEstScalSetSqua	HEditStri	Returns an object reference to the HEditString object
7117	reUnit()	ng	associated with the scaling setup dialogs 'Square Scaling Unit' editbox
Read only property	pHEstScalSetStrea	HEditStri	Returns an object reference to the HEditString object
	kTFFile()	ng	associated with the scaling setup dialogs 'Streak Scaling
			Time/Focus File' editbox
Read only property	pHEstScalSetStrea	HEditStri	Returns an object reference to the HEditString object
	kTFUnit()	ng	associated with the scaling setup dialogs 'Streak Scaling
D 1 1	HE (C. 10 (C)	THE PAGE	Time/Focus Unit' editbox
Read only property	pHEstScalSetStrea kXFile()	HEditStri	Returns an object reference to the HEditString object associated with the scaling setup dialogs 'Streak Scaling
	KAFIIE()	ng	X Direction File' editbox
Read only property	pHEstScalSetStrea	HEditStri	Returns an object reference to the HEditString object
read only property	kXUnit()	ng	associated with the scaling setup dialogs 'Streak Scaling
		8	X Direction Unit' editbox
Read only property	pHEstTimScalStre	HEditStri	Returns an object reference to the HEditString object
	akTFile()	ng	associated with the time scaling dialogs 'Streak Time
			Axis File' editbox
Read only property	pHEstTimScalStre	HEditStri	Returns an object reference to the HEditString object
	akTUnit()	ng	associated with the time scaling dialogs 'Streak Time
D 1 1	THE C 1C F	TTE	Axis Unit' editbox
Read only property	pHFraScalSetFree Scaling()	HFrame	Returns an object reference to the HFrame object
	Scanng()		associated with the scaling setup dialogs 'Free Scaling' frame
Read only property	pHFraScalSetSqua	HFrame	Returns an object reference to the HFrame object
Read only property	reScaling()	TH fame	associated with the scaling setup dialogs 'Square Scaling'
	researing()		frame
Read only property	pHFraScalSetStrea	HFrame	Returns an object reference to the HFrame object
	kScaling()		associated with the scaling setup dialogs 'Streak Scaling'
	_		frame
Read only property	pHFraSpecScalSet	HFrame	Returns an object reference to the HFrame object
	Dispersion()		associated with the spectrograph scaling setup dialogs
D 1 1		***	'Dispersion' frame
Read only property	pHFraTimScalIndi	HFrame	Returns an object reference to the HFrame object
	vidualAssignment(associated with the time scaling dialogs 'Individual Assignment' frame
Read only property	pHFraTimScalScal	HErame	Returns an object reference to the HFrame object
Read only property	ing()	111 Tanic	associated with the time scaling dialogs 'Scaling' frame
Read only property	pHFraTimScalScal	HFrame	Returns an object reference to the HFrame object
	ingType()		associated with the time scaling dialogs 'Scaling Type'
			frame
Read only property	pHFraTimScalTim	HFrame	Returns an object reference to the HFrame object
	eRange()		associated with the time scaling dialogs 'Time Range'
D 1 :	TD (2 =	TTD 5	frame
Read only property	pHMenScalEditAd	HMenu	Returns an object reference to the HMenu object
	d()		associated with the scaling editor dialogs 'Add' menu
Dand only number	pHMenScalEditDif	ШМопи	Returns an object reference to the HMenu object
Read only property	ferentialDisplay()	HMenu	associated with the scaling editor dialogs 'Differential
	TorondarDisplay()		Display' menu entry
Read only property	pHMenScalEditDif	HMenu	Returns an object reference to the HMenu object
proporty	fPolynomial()		associated with the scaling editor dialogs 'Create
			Differental Polynomial' menu entry
Read only property	pHMenScalEditEx	HMenu	Returns an object reference to the HMenu object
-	it()		associated with the scaling editor dialogs 'Exit' menu
			entry
Read only property	pHMenScalEditFil	HMenu	Returns an object reference to the HMenu object
D 1 1	e()	TD 6	associated with the scaling editor dialogs 'File' menu
Read only property	pHMenScalEditFu	HMenu	Returns an object reference to the HMenu object
	nctions()		associated with the scaling editor dialogs 'Functions'

			menu
Read only property	pHMenScalEditInt egralDisplay()	HMenu	Returns an object reference to the HMenu object associated with the scaling editor dialogs 'Integral Display' menu entry
Read only property	pHMenScalEditInt Polynomial()	HMenu	Returns an object reference to the HMenu object associated with the scaling editor dialogs 'Create Integral Polynomial' menu entry
Read only property	pHMenScalEditLo ad()	HMenu	Returns an object reference to the HMenu object associated with the scaling editor dialogs 'Load' menu entry
Read only property	pHMenScalEditM ultiply()	HMenu	Returns an object reference to the HMenu object associated with the scaling editor dialogs 'Multiply' menu entry
Read only property	pHMenScalEditOp tions()	HMenu	Returns an object reference to the HMenu object associated with the scaling editor dialogs 'Options' menu entry
Read only property	pHMenScalEditPri nt()	HMenu	Returns an object reference to the HMenu object associated with the scaling editor dialogs 'Print' menu entry
Read only property	pHMenScalEditSa ve()	HMenu	Returns an object reference to the HMenu object associated with the scaling editor dialogs 'Save' menu entry
Read only property	pHRadScalSetFree HType()	HRadios	Returns an object reference to the HRadios object associated with the scaling setup dialogs 'Free Scaling Horizontal Type' radiobutton group
Read only property	pHRadScalSetFree VType()	HRadios	Returns an object reference to the HRadios object associated with the scaling setup dialogs 'Free Scaling Vertical Type' radiobutton group
Read only property	pHRadScalSetScal ingMethod()	HRadios	Returns an object reference to the HRadios object associated with the scaling setup dialogs 'Scaling Method' radiobutton group
Read only property	pHRadScalSetStre akScalingTimeAxi s()	HRadios	Returns an object reference to the HRadios object associated with the scaling setup dialogs 'Streak Scaling Time Axis' radiobutton group
Read only property	pHRadScalSetStre akTFType()	HRadios	Returns an object reference to the HRadios object associated with the scaling setup dialogs 'Streak Scaling Time/Focus Type' radiobutton group
Read only property	pHRadScalSetStre akXType()	HRadios	Returns an object reference to the HRadios object associated with the scaling setup dialogs 'Streak Scaling X Direction Type' radiobutton group
Read only property	pHRadTimScalStr eakTType()	HRadios	Returns an object reference to the HRadios object associated with the time scaling dialogs 'Streak Time Axis Type' radiobutton group
Read only property	pHWinCreaPolyDl g()	HWindow	Returns an object reference to the HWindow object associated with the create polynomial main window
Read only property	pHWinScalEditDl g()	HWindow	Returns an object reference to the HWindow object associated with the scaling editor main window
Read only property	pHWinScalSetDlg(HWindow	Returns an object reference to the HWindow object associated with the scaling setup main window
Read only property	pHWinSpecScalDl g()	HWindow	Returns an object reference to the HWindow object associated with the spectrograph scaling main window
Read only property	pHWinTimScalDl g()	HWindow	Returns an object reference to the HWindow object associated with the time scaling main window
Read only property	psScalingDirectory ()	String	Returns the scaling directory
Read only property	pssdSystem()	HSystemS calingDat a	Returns an object reference to the HSystemScalingData object
Read/write property	pfRestoreWindow Pos()	Integer	Sets or returns a value which defines whether the window position, its size and window state is restored when the window is displayed again after it has been

			closed
Read/write property	pfUserIF()	Integer	Sets or returns a value which defines whether the associated window should be shown on screen. A window is only displayed under the following condition: pfUserIF=TRUE, pfVisible=TRUE, pfHideForm=FALSE
Function	pfGetFromTextFil e(ByVal sTextFile As String, Optional sError As Variant)	Integer	Executes the ""Get Form Text File"" function specifiying a file name for the text file

HSequence

HSequence			
Event	CameraIsStarted()		
Event	EndSequence()		Event which is raised after the sequence acquisition has ended
Event	ErrorEndSequence ()		Event which is raised after the sequence acquisition has ended due to an error
Event	Message(ByVal sMessage As String)		Event which is raised to inform the user of ongoing operations
Event	SeqSingleAcqEnde d(ByVal lIndex As Long)		
Event	StartSequence()		Event which is raised before the sequence acquisition has started
Read only property	pfSequenceIsInRA M()	Integer	Returns a flag which defines whether the sequence is stored in RAM
Read only property	pHChkOptAutoCo rrectAfterSeq()	HCheck	Returns an object reference to the HCheck object associated with the options dialogs 'Auto Correct After Sequence' checkbox
Read only property	pHChkOptDisplay ImgDuringSequen ce()	HCheck	Returns an object reference to the HCheck object associated with the options dialogs 'Display Image During Sequence' checkbox
Read only property	pHChkOptDoAcqu ireWrap()	HCheck	Returns an object reference to the HCheck object associated with the options dialogs 'Wrap During Sequence Acquisition' checkbox
Read only property	pHChkOptEnable AcquireWrap()	HCheck	Returns an object reference to the HCheck object associated with the options dialogs 'Enable Wrap During Sequence Acquisition' checkbox
Read only property	pHChkOptEnableS top()	HCheck	Returns an object reference to the HCheck object associated with the options dialogs 'Enable Stop' checkbox
Read only property	pHChkOptPrompt BeforeStart()	HCheck	Returns an object reference to the HCheck object associated with the options dialogs 'Prompt before Start' checkbox
Read only property	pHChkOptWarnin g()	HCheck	Returns an object reference to the HCheck object associated with the options dialogs 'Issue Warning' checkbox
Read only property	pHChkSeqAcquire ROI()	HCheck	Returns an object reference to the HCheck object associated with the sequence dialogs 'Acquire ROI' checkbox
Read only property	pHChkSeqAutoFix point()	HCheck	Returns an object reference to the HCheck object associated with the sequence dialogs 'Auto Fixpoint' checkbox
Read only property	pHChkSeqExclude Sample()	HCheck	Returns an object reference to the HCheck object associated with the sequence dialogs 'Exclude sample' checkbox
Read only property	pHChkSeqNeverL oadToRAM()	HCheck	Returns an object reference to the HCheck object associated with the sequence dialogs 'Never Load to RAM' checkbox

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Read only property	pHChkSeqSaveIm ages()	HCheck	Returns an object reference to the HCheck object associated with the sequence dialogs 'Save Images' checkbox
Read only property	pHChkSeqSavePro files()	HCheck	Returns an object reference to the HCheck object associated with the sequence dialogs 'Save Profiles' checkbox
Read only property	pHChkSeqWrapPl ay()	HCheck	Returns an object reference to the HCheck object associated with the sequence dialogs 'Wrap During Play' checkbox
Read only property	pHComOptCancel(HComma nd	Returns an object reference to the HCheck object associated with the options dialogs 'Cancel' pushbutton
Read only property	pHComOptOK()	HComma nd	Returns an object reference to the HCheck object associated with the options dialogs 'Cancel' pushbutton
Read only property	pHComSeqCopyT oNewImg()	HComma nd	Returns an object reference to the HCheck object associated with the sequence dialogs 'Copy To New Image' pushbutton
Read only property	pHComSeqFirstSa mple()	HComma nd	Returns an object reference to the HCheck object associated with the options dialogs 'Cancel' pushbutton
Read only property	pHComSeqGet1stI mage()	HComma nd	Returns an object reference to the HCheck object associated with the options dialogs 'Get First Image' pushbutton
Read only property	pHComSeqGet1st Profile()	HComma nd	Returns an object reference to the HCheck object associated with the options dialogs 'Get First Profile' pushbutton
Read only property	pHComSeqGetAre aForFixPoint()	HComma nd	Returns an object reference to the HCheck object associated with the options dialogs 'Get Area For Fix Point' pushbutton
Read only property	pHComSeqGetFix PntManually()	HComma nd	Returns an object reference to the HCheck object associated with the options dialogs 'Get Fix Point Manually' pushbutton
Read only property	pHComSeqGetInte rvalForCG()	HComma nd	Returns an object reference to the HCheck object associated with the options dialogs 'Get Interval For Center Of Gravity' pushbutton
Read only property	pHComSeqGetRO I()	HComma nd	Returns an object reference to the HCheck object associated with the options dialogs 'Get ROI' pushbutton
Read only property	pHComSeqLastSa mple()	HComma nd	Returns an object reference to the HCheck object associated with the options dialogs 'Last Sample' pushbutton
Read only property	pHComSeqNextSa mple()	HComma nd	Returns an object reference to the HCheck object associated with the options dialogs 'Next Sample' pushbutton
Read only property	pHComSeqOption s()	HComma nd	Returns an object reference to the HCheck object associated with the options dialogs 'Options' pushbutton
Read only property	pHComSeqPlayBa ckward()	HComma nd	Returns an object reference to the HCheck object associated with the options dialogs 'Play Backward' pushbutton
Read only property	pHComSeqPlayFo rward()	HComma nd	Returns an object reference to the HCheck object associated with the options dialogs 'Play Forward' pushbutton
Read only property	pHComSeqPlaySto p()	HComma nd	Returns an object reference to the HCheck object associated with the options dialogs 'Stop Play' pushbutton
Read only property	pHComSeqPreviou sSample()	HComma nd	Returns an object reference to the HCheck object associated with the options dialogs 'Previous Sample' pushbutton
Read only property	pHComSeqProcee dProcessing()	HComma nd	Returns an object reference to the HCheck object associated with the options dialogs 'Proceed Processing' pushbutton
Read only property	pHComSeqRecall AreaForFixPoint()	HComma nd	Returns an object reference to the HCheck object associated with the options dialogs 'REcall Area For Fix Point' pushbutton

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Read only property	pHComSeqRecallI ntervalForCG()	HComma nd	Returns an object reference to the HCheck object associated with the options dialogs 'Recall Interval For Center Of Gravity' pushbutton
Read only property	pHComSeqResetPr ocessing()	HComma nd	Returns an object reference to the HCheck object associated with the options dialogs 'Reset Processing' pushbutton
Read only property	pHComSeqStartAc quisition()	HComma nd	Returns an object reference to the HCheck object associated with the options dialogs 'Start Acquisition' pushbutton
Read only property	pHComSeqStopAc quisition()	HComma nd	Returns an object reference to the HCheck object associated with the options dialogs 'Stop Acquisition' pushbutton
Read only property	pHComSeqStopPr ocessing()	HComma nd	Returns an object reference to the HCheck object associated with the options dialogs 'Stop Processing' pushbutton
Read only property	pHDisSeqBytesPer Image()	HDisp	Returns an object reference to the HDisp object associated with the sequence dialogs 'Bytes Per Image' display area
Read only property	pHDisSeqExclude dSamples()	HDisp	Returns an object reference to the HDisp object associated with the sequence dialogs 'Excluded Samples' display area
Read only property	pHDisSeqFileNam e()	HDisp	Returns an object reference to the HDisp object associated with the sequence dialogs 'File Name' display area
Read only property	pHDisSeqFixPoint ()	HDisp	Returns an object reference to the HDisp object associated with the sequence dialogs 'Fix Point' display area
Read only property	pHDisSeqFreeIma ges()	HDisp	Returns an object reference to the HDisp object associated with the sequence dialogs 'Free Images' display area
Read only property	pHDisSeqMeanPro cessing()	HDisp	Returns an object reference to the HDisp object associated with the sequence dialogs 'Mean Value of Processing' display area
Read only property	pHDisSeqNrSampl es()	HDisp	Returns an object reference to the HDisp object associated with the sequence dialogs 'Number Of Samples' display area
Read only property	pHDisSeqRemaini ngSecs()	HDisp	Returns an object reference to the HDisp object associated with the sequence dialogs 'Remaining Seconds' display area
Read only property	pHDisSeqSDProce ssing()	HDisp	Returns an object reference to the HDisp object associated with the sequence dialogs 'Standard Deviation of Processing' display area
Read only property	pHDisSeqSpaceOn Disk()	HDisp	Returns an object reference to the HDisp object associated with the sequence dialogs 'Space On Disk' display area
Read only property	pHDisSeqUndefin edSamples()	HDisp	Returns an object reference to the HDisp object associated with the sequence dialogs 'Undefined Samples' display area
Read only property	pHDisSeqValidSa mples()	HDisp	Returns an object reference to the HDisp object associated with the sequence dialogs 'Valid Samples' display area
Read only property	pHEdnSeqCurrent Sample()	HEditNu mber	Returns an object reference to the HEditNumber object associated with the sequence dialogs 'Current Sample' editbox
Read only property	pHEdnSeqNoOfLo ops()	HEditNu mber	Returns an object reference to the HEditNumber object associated with the sequence dialogs 'Number Of Loops' editbox
Read only property	pHEdnSeqProfileN o()	HEditNu mber	Returns an object reference to the HEditNumber object associated with the sequence dialogs 'Profile Number' editbox
Read only property	pHEstSeqAcquireI	HEditStri	Returns an object reference to the HEditString object

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	nterval()	ng	associated with the sequence dialogs 'Acquire Interval' editbox
Read only property	pHEstSeqFirstImg ToStore()	HEditStri ng	Returns an object reference to the HEditString object associated with the sequence dialogs 'First Image To Store' editbox
Read only property	pHEstSeqFirstPrfT oStore()	HEditStri ng	Returns an object reference to the HEditString object associated with the sequence dialogs 'First Profile To Store' editbox
Read only property	pHEstSeqPlayInter val()	HEditStri ng	Returns an object reference to the HEditString object associated with the sequence dialogs 'Play Interval' editbox
Read only property	pHFraSeqAcquireI mages()	HFrame	Returns an object reference to the HFrame object associated with the sequence dialogs 'Acquire Images' frame
Read only property	pHFraSeqAcquire Profiles()	HFrame	Returns an object reference to the HFrame object associated with the sequence dialogs 'Acquire Profiles' frame
Read only property	pHFraSeqCycleFe atures()	HFrame	Returns an object reference to the HFrame object associated with the sequence dialogs 'Cycle Features' frame
Read only property	pHFraSeqCycleSta tus()	HFrame	Returns an object reference to the HFrame object associated with the sequence dialogs 'Cycle Status' frame
Read only property	pHFraSeqFixPoint ()	HFrame	Returns an object reference to the HFrame object associated with the sequence dialogs 'Fix Point' frame
Read only property	pHFraSeqNeverLo adToRAM()	HFrame	Returns an object reference to the HFrame object associated with the sequence dialogs 'Never Load To RAM' frame
Read only property	pHFraSeqProfileSe ts()	HFrame	Returns an object reference to the HFrame object associated with the sequence dialogs 'Profile Sets' frame
Read only property	pHFraSeqSpecial()	HFrame	Returns an object reference to the HFrame object associated with the sequence dialogs 'Special' frame
Read only property	pHRadSeqAcqSpe ed()	HRadios	Returns an object reference to the HRadios object associated with the sequence dialogs 'Acquisition Speed' radiobutton group
Read only property	pHRadSeqAcquisit ionMode()	HRadios	Returns an object reference to the HRadios object associated with the sequence dialogs 'Acquisition Mode' radiobutton group
Read only property	pHRadSeqCorrecti onDirection()	HRadios	Returns an object reference to the HRadios object associated with the sequence dialogs 'Correction Dialog' radiobutton group
Read only property	pHRadSeqProcessi ngMethod()	HRadios	Returns an object reference to the HRadios object associated with the sequence dialogs 'Processing Method' radiobutton group
Read only property	pHRadSeqSample Type()	HRadios	Returns an object reference to the HRadios object associated with the sequence dialogs 'Sample Type' radiobutton group
Read only property	pHRadSeqStoreIm ages()	HRadios	Returns an object reference to the HRadios object associated with the sequence dialogs 'Store Images' radiobutton group
Read only property	pHTabSeqTopic()	HTab	Returns an object reference to the HTab object associated with the sequence dialogs 'Topic' tab group
Read only property	pHWinOptDlg()	HWindow	Returns an object reference to the HWindow object associated with the option dialogs main window
Read only property	pHWinOptOptions ()	HWindow	Returns an object reference to the HWindow object associated with the option dialogs options window
Read only property	pHWinSeqDlg()	HWindow	Returns an object reference to the HWindow object associated with the sequence dialogs main window
Read only property	piSeqProcessing()	Integer	Returns a value which defines which Processing Mode will be selected. Possible values are defined in the enumeration SequenceProcessing
Read/write property	pfRestoreWindow	Integer	Sets or returns a value which defines whether the

	Pos()		window position, its size and window state is restored
			when the window is displayed again after it has been
			closed
Read/write property	pfUserIF()	Integer	Sets or returns a value which defines whether the
Read/write property	prosent ()	Integer	associated window should be shown on screen. A
			window is only displayed under the following condition:
			pfUserIF=TRUE, pfVisible=TRUE,
			pfHideForm=FALSE
Function	pfLoadSequence(O	Integer	Loads a sequence
	ptional sFileOpt		
	As Variant,		
	Optional		
	iSeqModeOpt As		
	Variant)		
Function	pfSaveSequence(O	Integer	Saves a sequence
	ptional sFile As		1
	Variant, Optional		
	sAreDefault As		
	Variant, Optional		
	fSaveROI As		
	Variant)		
Sub			I and a Common and the manner.
Sub	pAsyncLoadSeque		Loads a Sequence asynchronously
	nce(Optional		
	sFileOpt As		
	Variant, Optional		
	iSeqModeOpt As		
	Variant)		
Sub	pAsyncSaveSeque		Saves a Sequence
	nce(Optional sFile		
	As Variant,		
	Optional		
	sAreDefault As		
	Variant, Optional		
	fSaveROI As		
	Variant)		
Sub	pAsyncSeqStartAc		Starts Sequence Acquisition asynchronously
	quisition()		
Sub	pCorrectSequence(Performs a correction on a sequence (background,
540	ByVal fBack As		shading or curvature correction)
	Integer, ByVal		shading of curvature correction)
	fShad As Integer,		
	ByVal fCurvCorr		
	As Integer)		
Sub	pRemoveSequence		Pomovos o soguenco
Sub	1 -		Removes a sequence
TT T*44	()		
HJitter			
Event	Message(ByVal		Event which is raised to inform the user of ongoing
	sMessage As		operations
	String)		

HGeneral HACam

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Read only property	pHCh4CamClearF	HCheck4	Returns an object reference to the HCheck4Array object
	rameBuffer()	Array	associated with the camera dialogs 'Clear frame buffer on
		-	start' checkbox
Read only property	pHCh4CamDoRT	HCheck4	Returns an object reference to the HCheck4Array object
	Backsub()	Array	associated with the camera dialogs 'Do Real Time
			Backsub' checkbox
Read only property	pHCh4CamFGTrig	HCheck4	Returns an object reference to the HCheck4Array object
	ger()	Array	associated with the camera dialogs 'Clear frame buffer on
			start' checkbox

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Read only property	pHCo4CamAcquir e()	HComma nd4Array	Returns an object reference to the HCommand4Array object associated with the camera dialogs 'Acquire' pushbutton
Read only property	pHCo4CamDoPCS etup()	HComma nd4Array	Returns an object reference to the HCommand4Array object associated with the camera dialogs 'Do Photon Counting Setup' pushbutton
Read only property	pHCo4CamFreeze(HComma nd4Array	Returns an object reference to the HCommand4Array object associated with the camera dialogs 'Freeze' pushbutton
Read only property	pHCo4CamGetBG Data()	HComma nd4Array	Returns an object reference to the HCommand4Array object associated with the camera dialogs 'Get Background Data' pushbutton
Read only property	pHCo4CamLive()	HComma nd4Array	Returns an object reference to the HCommand4Array object associated with the camera dialogs 'Live' pushbutton
Read only property	pHCo4CamSingle Exposure()	HComma nd4Array	Returns an object reference to the HCommand4Array object associated with the camera dialogs 'Single Exposure' pushbutton
Read only property	pHCo4CamStop()	HComma nd4Array	Returns an object reference to the HCommand4Array object associated with the camera dialogs 'Stop' pushbutton
Read only property	pHComCamDown ()	HComma nd	Returns an object reference to the HCommand object associated with the camera dialogs 'Down' pushbutton (Small down arrow)
Read only property	pHComCamUp()	HComma nd	Returns an object reference to the HCommand object associated with the camera dialogs 'Up' pushbutton (Small up arrow)
Read only property	pHComSetupCanc el()	HComma nd	Returns an object reference to the HCommand object associated with the camera setup dialogs 'Cancel' pushbutton
Read only property	pHComSetupOK()	HComma nd	Returns an object reference to the HCommand object associated with the camera setup dialogs 'Setup' pushbutton
Read only property	pHDi4CamAbove Threshold()	HDisp4Ar ray	Returns an object reference to the HDisp4Array object associated with the camera dialogs 'Above Threshold' display area
Read only property	pHDi4CamMessag e()	HDisp4Ar ray	Returns an object reference to the HDisp4Array object associated with the camera dialogs 'Message' display area
Read only property	pHEd4CamNrExp osures()	HEditNu mber4Arr ay	Returns an object reference to the HEditNumber4Array object associated with the camera dialogs 'Number of Exposures' editbox
Read only property	pHEd4CamThresh old()	HEditNu mber4Arr ay	Returns an object reference to the HEditNumber4Array object associated with the camera dialogs 'Threshold' editbox
Read only property	pHEn4CamIntegr AfterTrig()	HEntry4A rray	Returns an object reference to the HEntry4Array object associated with the camera dialogs 'Integrate After Trigger' editbox
Read only property	pHFr4CamAction(HFrame4 Array	Returns an object reference to the HFrame4Array object associated with the camera dialogs 'Action' frame
Read only property	pHFr4CamFGTrig ger()	HFrame4 Array	Returns an object reference to the HFrame4Array object associated with the camera dialogs 'Frame Grabber Trigger' frame
Read only property	pHFr4CamIntegrat ion()	HFrame4 Array	Returns an object reference to the HFrame4Array object associated with the camera dialogs 'Integration' frame
Read only property	pHFr4CamPcMod e()	HFrame4 Array	Returns an object reference to the HFrame4Array object associated with the camera dialogs 'Photon Counting Mode' frame
Read only property	pHFr4CamPhoton Counting()	HFrame4 Array	Returns an object reference to the HFrame4Array object associated with the camera dialogs 'Photon Counting' frame

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Read only property	pHFr4CamRTBS()	HFrame4 Array	Returns an object reference to the HFrame4Array object associated with the camera dialogs 'Real Time Backsub' frame
Read only property	pHPr4CamPercent ()	HProgress 4Array	Returns an object reference to the HProgress4Array object associated with the camera dialogs 'Percent' progress bar
Read only property	pHRa4CamPcMod e()	HRadios4 Array	Returns an object reference to the HRadios4Array object associated with the camera dialogs 'Photon Counting Mode' radiobutton group
Read only property	pHRadSetupStartA cq()	HRadios	Returns an object reference to the HRadios object associated with the camera setup dialogs 'Start Acquisition' radiobutton group
Read only property	pHRadSetupSync Mode()	HRadios	Returns an object reference to the HRadios object associated with the camera setup dialogs 'Sync Mode' radiobutton group
Read only property	pHTabCamAcqMo de()	HTab	Returns an object reference to the HTab object associated with the camera dialogs 'Acquisition mode' tab group
Read only property	pHWinCamDlg()	HWindow	Returns an object reference to the HWindow object associated with the camera dialogs main window
Read only property	pHWinSetupAMV SSetting()	HWindow	Returns an object reference to the HWindow object associated with the camera setup dialogs window displaying the AMVS settings
Read only property	pHWinSetupDlg()	HWindow	Returns an object reference to the HWindow object associated with the camera setup dialogs main window
Read only property	piDatTypeForAcq uire()	Integer	Returns the data type in ACQUIRE mode
Read only property	piDatTypeForAI()	Integer	Returns the data type in Analog Integration mode
Read only property	piDatTypeForLive ()	Integer	Returns the data type in LIVE mode
Read only property	piDatTypeForPC()	Integer	Returns the data type in Photon Counting mode
Read only property	psCameraName()	String	Returns the camera name
Read/write property	pfRestoreWindow Pos()	Integer	Sets or returns a value which defines whether the window position, its size and window state is restored when the window is displayed again after it has been closed
Read/write property	pfStreakOperate()	Integer	A value that tells the camera object whether vertical streak operation is switched on. Don't modify this entry otherwise streak trigger handshake may not longer work
Read/write property	pfStreakOperateD TBE()	Integer	A value that tells the camera object whether horizontal streak operation is switched on. Don't modify this entry otherwise streak trigger handshake may not longer work
Read/write property	pfStreakUseDTBE	Integer	Tells the camera object that a Dual time base extender is currently used for trigger handshake
Read/write property	pfUserIF()	Integer	Sets or returns a value which defines whether the associated window should be shown on screen. A window is only displayed under the following condition: pfUserIF=TRUE, pfVisible=TRUE, pfHideForm=FALSE
Read/write property	piStreakTriggerMe thod()	Integer	Tells the camera (or acquisition/sequence) object the streak trigger method. Don't modify this entry otherwise Steak trigger handshake may no longer work
Function	pGetStreakRelated CCDCaps(ByRef fCCDCanExtTrig As Integer, ByRef fCCDCanStartStop As Integer, ByRef sExtTrigCCDMeth od As String, ByRef		Returns streak trigger related capabilities of the CCD camera

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	sExtTrigCPUMeth		
	od As String,		
	ByRef		
	sStartStopCCDMet		
	hod As String,		
	ByRef		
	sStartStopCPUMet		
	hod As String)		
Function	psGetStatus()	String	Returns the current camera status string
Sub	pStopAcquisition()		Stops a currently running acquisition
HC474295	11 1 1 V		
Read only property	pHCh4CamClearF	HCheck4	Returns an object reference to the HCheck4Array object
Read only property	rameBuffer()	Array	associated with the camera dialogs 'Clear frame buffer on
	Taille Duffer()	Allay	start' checkbox
Dandaula ananama	a HCb 4Cam Da DT	IICh a ala4	
Read only property	pHCh4CamDoRT	HCheck4	Returns an object reference to the HCheck4Array object
	Backsub()	Array	associated with the camera dialogs 'Do Real Time
D 1 1	HOLAG G. 1	IICI 14	Backsub' checkbox
Read only property	pHCh4CamStreak	HCheck4	Returns an object reference to the HCheck4Array object
	Trigger()	Array	associated with the camera dialogs 'Streak Trigger
D 1 1	HC 4C + :	ш	Active' checkbox
Read only property	pHCo4CamAcquir	HComma	Returns an object reference to the HCommand4Array
	e()	nd4Array	object associated with the camera dialogs 'Acquire'
	****		pushbutton
Read only property	pHCo4CamDoPCS	HComma	Returns an object reference to the HCommand4Array
	etup()	nd4Array	object associated with the camera dialogs 'Do Photon
			Counting Setup' pushbutton
Read only property	pHCo4CamFreeze(HComma	Returns an object reference to the HCommand4Array
)	nd4Array	object associated with the camera dialogs 'Freeze'
			pushbutton
Read only property	pHCo4CamGetBG	HComma	Returns an object reference to the HCommand4Array
	Data()	nd4Array	object associated with the camera dialogs 'Get
			Background Data' pushbutton
Read only property	pHCo4CamLive()	HComma	Returns an object reference to the HCommand4Array
		nd4Array	object associated with the camera dialogs 'Live'
			pushbutton
Read only property	pHCo4CamSingle	HComma	Returns an object reference to the HCommand4Array
	Exposure()	nd4Array	object associated with the camera dialogs 'Single
			Exposure' pushbutton
Read only property	pHCo4CamStop()	HComma	Returns an object reference to the HCommand4Array
		nd4Array	object associated with the camera dialogs 'Stop'
			pushbutton
Read only property	pHComCamDown	HComma	Returns an object reference to the HCommand object
	()	nd	associated with the camera dialogs 'Down' pushbutton
			(Small down arrow)
Read only property	pHComCamUp()	HComma	Returns an object reference to the HCommand object
		nd	associated with the camera dialogs 'Up' pushbutton
			(Small up arrow)
Read only property	pHComSetupCanc	HComma	Returns an object reference to the HCommand object
	el()	nd	associated with the camera setup dialogs 'Cancel'
			pushbutton
Read only property	pHComSetupOK()	HComma	Returns an object reference to the HCommand object
		nd	associated with the camera setup dialogs 'OK' pushbutton
Read only property	pHDi4CamAbove	HDisp4Ar	Returns an object reference to the HDisp4Array object
	Threshold()	ray	associated with the camera dialogs 'Above Threshold'
	, , ,	•	display area
Read only property	pHDi4CamMessag	HDisp4Ar	Returns an object reference to the HDisp4Array object
F-0P-10	e()	ray	associated with the camera dialogs 'Message' display
	· ·		area
Read only property	pHDi4CamStreakT	HDisp4Ar	Returns an object reference to the HDisp4Array object
Froperty	rigger()	ray	associated with the camera dialogs 'Streak Trigger'
	35 (/	,	display area
L	1	l .	

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Read only property	pHDisSetupCamer aInfo()	HDisp	Returns an object reference to the HDisp object associated with the camera setup dialogs 'Camera Info' display area
Read only property	pHDisSetupScanA rea()	HDisp	Returns an object reference to the HDisp object associated with the camera setup dialogs 'Scan Area' display area
Read only property	pHEd4CamNrExp osures()	HEditNu mber4Arr ay	Returns an object reference to the HEditNumber4Array object associated with the camera dialogs 'Number of Exposures' editbox
Read only property	pHEd4CamNrTrig ger()	HEditNu mber4Arr ay	Returns an object reference to the HEditNumber4Array object associated with the camera dialogs 'Number of Streak Trigger' editbox
Read only property	pHEd4CamThresh old()	HEditNu mber4Arr ay	Returns an object reference to the HEditNumber4Array object associated with the camera dialogs 'Threshold' editbox
Read only property	pHEdnSetupHOffs ()	HEditNu mber	Returns an object reference to the HEditNumber object associated with the setup dialogs 'Horizontal Offset' (subarray mode) editbox
Read only property	pHEdnSetupHWid th()	HEditNu mber	Returns an object reference to the HEditNumber object associated with the setup dialogs 'Horizontal Width' (subarray mode) editbox
Read only property	pHEdnSetupVOffs ()	HEditNu mber	Returns an object reference to the HEditNumber object associated with the setup dialogs 'Vertical Offset' (subarray mode) editbox
Read only property	pHEdnSetupVWid th()	HEditNu mber	Returns an object reference to the HEditNumber object associated with the setup dialogs 'Vertical Width' (subarray mode) editbox
Read only property	pHEn4CamExposu re()	HEntry4A rray	Returns an object reference to the HEntry4Array object associated with the camera dialogs 'Exposure Time' entrybox
Read only property	pHEn4CamGain()	HEntry4A rray	Returns an object reference to the HEntry4Array object associated with the camera dialogs 'Analog Gain' entrybox
Read only property	pHEn4CamOffset(HEntry4A rray	Returns an object reference to the HEntry4Array object associated with the camera dialogs 'Analog Offset' entrybox
Read only property	pHFr4CamAction(HFrame4 Array	Returns an object reference to the HFrame4Array object associated with the camera dialogs 'Action' frame
Read only property	pHFr4CamExposu reTime()	HFrame4 Array	Returns an object reference to the HFrame4Array object associated with the camera dialogs 'Exposure Time' frame
Read only property	pHFr4CamGainOf fset()	HFrame4 Array	Returns an object reference to the HFrame4Array object associated with the camera dialogs 'Analog Gain' frame
Read only property	pHFr4CamIntegrat ion()	HFrame4 Array	Returns an object reference to the HFrame4Array object associated with the camera dialogs 'Integration' frame
Read only property	pHFr4CamPhoton Counting()	HFrame4 Array	Returns an object reference to the HFrame4Array object associated with the camera dialogs 'Photon Counting' frame
Read only property	pHFr4CamRTBS()	HFrame4 Array	Returns an object reference to the HFrame4Array object associated with the camera dialogs 'Real Time Backsub' frame
Read only property	pHFr4CamStreakT rigger()	HFrame4 Array	Returns an object reference to the HFrame4Array object associated with the camera dialogs 'Streak Trigger' frame
Read only property	pHFraSetupSubarr ay()	HFrame	Returns an object reference to the HFrame object associated with the setup dialogs 'Subarray' frame
Read only property	pHPr4CamPercent ()	HProgress 4Array	Returns an object reference to the HProgress4Array object associated with the camera dialogs 'Percent' progress bar
Read only property	pHRa4CamPcMod e()	HRadios4 Array	Returns an object reference to the HRadios4Array object associated with the camera dialogs 'Photon Counting Mode' radiobutton group

Read only property	pHRadSetupBinni ng()	HRadios	Returns an object reference to the HRadios object associated with the camera setup dialogs 'Binning' radiobutton group
Read only property	pHRadSetupCCD Area()	HRadios	Returns an object reference to the HRadios object associated with the camera setup dialogs 'CCD Area' radiobutton group
Read only property	pHRadSetupLight Mode()	HRadios	Returns an object reference to the HRadios object associated with the camera setup dialogs 'Light Mode' radiobutton group
Read only property	pHRadSetupScan Mode()	HRadios	Returns an object reference to the HRadios object associated with the camera setup dialogs 'Scan Mode' radiobutton group
Read only property	pHRadSetupTimin gMode()	HRadios	Returns an object reference to the HRadios object associated with the camera setup dialogs 'Timing Mode' radiobutton group
Read only property	pHRadSetupTrigge rMode()	HRadios	Returns an object reference to the HRadios object associated with the camera setup dialogs 'Trigger Mode' radiobutton group
Read only property	pHRadSetupTrigge rPolarity()	HRadios	Returns an object reference to the HRadios object associated with the camera setup dialogs 'Trigger Polarity' radiobutton group
Read only property	pHRadSetupTrigge rSource()	HRadios	Returns an object reference to the HRadios object associated with the camera setup dialogs 'Trigger Source' radiobutton group
Read only property	pHTabCamAcqMo de()	HTab	Returns an object reference to the HTab object associated with the camera dialogs 'Acquisition mode' tab group
Read only property	pHWinCamDlg()	HWindow	Returns an object reference to the HWindow object associated with the camera dialogs main window
Read only property	pHWinSetupDlg()	HWindow	Returns an object reference to the HWindow object associated with the camera setup dialogs main window
Read only property	piDatTypeForAcq uire()	Integer	Returns the data type in ACQUIRE mode
Read only property	piDatTypeForAI()	Integer	Returns the data type in Analog Integration mode
Read only property	piDatTypeForLive ()	Integer	Returns the data type in LIVE mode
Read only property	piDatTypeForPC()	Integer	Returns the data type in Photon Counting mode
Read only property	psCameraName()	String	Returns the camera name
Read/write property	pfRestoreWindow Pos()	Integer	Sets or returns a value which defines whether the window position, its size and window state is restored when the window is displayed again after it has been closed
Read/write property	pfStreakOperate()	Integer	A value that tells the camera object whether vertical streak operation is switched on. Don't modify this entry otherwise streak trigger handshake may not longer work
Read/write property	pfStreakOperateD TBE()	Integer	A value that tells the camera object whether horizontal streak operation is switched on. Don't modify this entry otherwise streak trigger handshake may not longer work
Read/write property	pfStreakUseDTBE ()	Integer	Tells the camera object that a Dual time base extender is currently used for trigger handshake
Read/write property	pfUserIF()	Integer	Sets or returns a value which defines whether the associated window should be shown on screen. A window is only displayed under the following condition: pfUserIF=TRUE, pfVisible=TRUE, pfHideForm=FALSE
Read/write property	piStreakTriggerMe thod()	Integer	Tells the camera (or acquisition/sequence) object the streak trigger method. Don't modify this entry otherwise Steak trigger handshake may no longer work
Function	pGetStreakRelated CCDCaps(ByRef fCCDCanExtTrig		Returns streak trigger related capabilities of the CCD camera

	As Integer, ByRef fCCDCanStartStop		
	As Integer, ByRef		
	sExtTrigCCDMeth		
	od As String,		
	ByRef		
	sExtTrigCPUMeth		
	od As String,		
	ByRef		
	sStartStopCCDMet		
	hod As String,		
	ByRef		
	sStartStopCPUMet		
	hod As String)		
Function	psGetStatus()	String	Returns the current camera status string
Sub	pStopAcquisition()		Stops a currently running acquisition

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Read only property	pHCh4CamClearF rameBuffer()	HCheck4 Array	Returns an object reference to the HCheck4Array object associated with the camera dialogs 'Clear frame buffer on start' checkbox
Read only property	pHCh4CamDoRT Backsub()	HCheck4 Array	Returns an object reference to the HCheck4Array object associated with the camera dialogs 'Do Real Time Backsub' checkbox
Read only property	pHCh4CamStreak Trigger()	HCheck4 Array	Returns an object reference to the HCheck4Array object associated with the camera dialogs 'Streak Trigger Active' checkbox
Read only property	pHChkSetupCoole r()	HCheck	Returns an object reference to the HCheck object associated with the camera setup dialogs 'Cooler' checkbox
Read only property	pHChkSetupPanel Switch()	HCheck	Returns an object reference to the HCheck object associated with the camera setup dialogs 'Panel Switch' checkbox
Read only property	pHChkSetupShadi ngControl()	HCheck	Returns an object reference to the HCheck object associated with the camera setup dialogs 'Shading Control' checkbox
Read only property	pHCo4CamAcquir e()	HComma nd4Array	Returns an object reference to the HCommand4Array object associated with the camera dialogs 'Acquire' pushbutton
Read only property	pHCo4CamDoPCS etup()	HComma nd4Array	Returns an object reference to the HCommand4Array object associated with the camera dialogs 'Do Photon Counting Setup' pushbutton
Read only property	pHCo4CamFreeze(HComma nd4Array	Returns an object reference to the HCommand4Array object associated with the camera dialogs 'Freeze' pushbutton
Read only property	pHCo4CamGetBG Data()	HComma nd4Array	Returns an object reference to the HCommand4Array object associated with the camera dialogs 'Get Background Data' pushbutton
Read only property	pHCo4CamLive()	HComma nd4Array	Returns an object reference to the HCommand4Array object associated with the camera dialogs 'Live' pushbutton
Read only property	pHCo4CamSingle Exposure()	HComma nd4Array	Returns an object reference to the HCommand4Array object associated with the camera dialogs 'Single Exposure' pushbutton
Read only property	pHCo4CamStop()	HComma nd4Array	Returns an object reference to the HCommand4Array object associated with the camera dialogs 'Stop' pushbutton
Read only property	pHComCamDown ()	HComma nd	Returns an object reference to the HCommand object associated with the camera dialogs 'Down' pushbutton (Small down arrow)
Read only property	pHComCamUp()	HComma nd	Returns an object reference to the HCommand object associated with the camera dialogs 'Up' pushbutton

			(Small up arrow)
Read only property	pHComSetupCanc	HComma	Returns an object reference to the HCommand object
	el()	nd	associated with the camera setup dialogs 'Cancel' pushbutton
Read only property	pHComSetupOK()	HComma	Returns an object reference to the HCommand object
Dead and an arrangement	allD: 4Com Abour	nd IID: a. 1 A a	associated with the camera setup dialogs 'OK' pushbutton
Read only property	pHDi4CamAbove Threshold()	HDisp4Ar ray	Returns an object reference to the HDisp4Array object associated with the camera dialogs 'Above Threshold'
	Timeshora()	lay	display area
Read only property	pHDi4CamMessag	HDisp4Ar	Returns an object reference to the HDisp4Array object
	e()	ray	associated with the camera dialogs 'Message' display area
Read only property	pHDi4CamStreakT	HDisp4Ar	Returns an object reference to the HDisp4Array object
	rigger()	ray	associated with the camera dialogs 'Streak Trigger' display area
Read only property	pHDisSetupActual	HDisp	Returns an object reference to the HDisp object
	Temperature()		associated with the camera setup dialogs 'Actual Temperature' display area
Read only property	pHDisSetupCamer	HDisp	Returns an object reference to the HDisp object
	aType()		associated with the camera setup dialogs 'Camera Type'
Dand and	IID:	IID:	display area
Read only property	pHDisSetupChip()	HDisp	Returns an object reference to the HDisp object associated with the camera setup dialogs 'Chip' display
			area
Read only property	pHDisSetupVersio	HDisp	Returns an object reference to the HDisp object
	n()		associated with the camera setup dialogs 'Version'
Read only property	pHDisSetupVolGa	HDisp	display area Returns an object reference to the HDisp object
read only property	in()	ПВпор	associated with the camera setup dialogs 'Volume Gain'
			display area
Read only property	pHDisSetupVolOff	HDisp	Returns an object reference to the HDisp object
	set()		associated with the camera setup dialogs 'Volume Offset' display area
Read only property	pHDisSubLower()	HDisp	Returns an object reference to the HDisp object
		_	associated with the camera subarray dialogs 'Lower' display area
Read only property	pHDisSubUpper()	HDisp	Returns an object reference to the HDisp object
			associated with the camera subarray dialogs 'Upper' display area
Read only property	pHDisSubWidth()	HDisp	Returns an object reference to the HDisp object
	T v	1	associated with the camera subarray dialogs 'Width'
D 1 1	THE LACE APPLICA	THE PAR	display area
Read only property	pHEd4CamATN()	HEditNu mber4Arr	Returns an object reference to the HEditNumber4Array object associated with the camera dialogs 'Acquire
		ay	Trigger Number' editbox
Read only property	pHEd4CamNrExp	HEditNu	Returns an object reference to the HEditNumber4Array
	osures()	mber4Arr	object associated with the camera dialogs 'Number of
Read only property	pHEd4CamNrTrig	ay HEditNu	Exposures' editbox Returns an object reference to the HEditNumber4Array
read only property	ger()	mber4Arr	object associated with the camera dialogs 'Number of
		ay	Streak Trigger' editbox
Read only property	pHEd4CamThresh	HEditNu	Returns an object reference to the HEditNumber4Array
	old()	mber4Arr ay	object associated with the camera dialogs 'Threshold' editbox
Read only property	pHEdnSetupTarget	HEditNu	Returns an object reference to the HEditNumber object
	Temperature()	mber	associated with the camera setup dialogs 'Target
Dood only now or	nHEdra-LV D	HE JAM	Temperature' editbox
Read only property	pHEdnSubVerBin ning()	HEditNu mber	Returns an object reference to the HEditNumber object associated with the camera subarray dialogs 'Binning'
	60	111001	editbox
Read only property	pHEn4CamAMD()	HEntry4A	Returns an object reference to the HEntry4Array object

		rray	associated with the camera dialogs 'Acquire Mode' entrybox
Read only property	pHEn4CamASH()	HEntry4A rray	Returns an object reference to the HEntry4Array object associated with the camera dialogs 'Acquire Shutter' entrybox
Read only property	pHEn4CamATP()	HEntry4A rray	Returns an object reference to the HEntry4Array object associated with the camera dialogs 'Acquire Trigger Polarity' entrybox
Read only property	pHEn4CamExposu re()	HEntry4A rray	Returns an object reference to the HEntry4Array object associated with the camera dialogs 'Exposure Time' entrybox
Read only property	pHEn4CamMCP()	HEntry4A rray	Returns an object reference to the HEntry4Array object associated with the camera dialogs 'MCP' entrybox
Read only property	pHEn4CamSOP()	HEntry4A rray	Returns an object reference to the HEntry4Array object associated with the camera dialogs 'Scan Optical Black' entrybox
Read only property	pHEn4CamSPX()	HEntry4A rray	Returns an object reference to the HEntry4Array object associated with the camera dialogs 'Superpixel' entrybox
Read only property	pHEn4CamTDY()	HEntry4A rray	Returns an object reference to the HEntry4Array object associated with the camera dialogs 'Trigger Delay' entrybox
Read only property	pHEntSetupGain()	HEntry	Returns an object reference to the HEntry object associated with the camera setup dialogs 'Gain' entrybox
Read only property	pHEntSetupOffset()	HEntry	Returns an object reference to the HEntry object associated with the camera setup dialogs 'Offset' entrybox
Read only property	pHEntSubHorBinn ing()	HEntry	Returns an object reference to the HEntry object associated with the camera setup dialogs 'Binning' entrybox
Read only property	pHEntSubLower()	HEntry	Returns an object reference to the HEntry object associated with the camera subarray dialogs 'Lower' entrybox
Read only property	pHEntSubUpper()	HEntry	Returns an object reference to the HEntry object associated with the camera subarray dialogs 'Upper' entrybox
Read only property	pHFr4CamAction(HFrame4 Array	Returns an object reference to the HFrame4Array object associated with the camera dialogs 'Action' frame
Read only property	pHFr4CamAmpGa in()	HFrame4 Array	Returns an object reference to the HFrame4Array object associated with the camera dialogs 'Amp Gain' frame
Read only property	pHFr4CamExposu reTime()	HFrame4 Array	Returns an object reference to the HFrame4Array object associated with the camera dialogs 'Exposure Time' frame
Read only property	pHFr4CamIntegrat ion()	HFrame4 Array	Returns an object reference to the HFrame4Array object associated with the camera dialogs 'Integration' frame
Read only property	pHFr4CamPhoton Counting()	HFrame4 Array	Returns an object reference to the HFrame4Array object associated with the camera dialogs 'Photon Counting' frame
Read only property	pHFr4CamRTBS()	HFrame4 Array	Returns an object reference to the HFrame4Array object associated with the camera dialogs 'Real Time Backsub' frame
Read only property	pHFr4CamScanM ode()	HFrame4 Array	Returns an object reference to the HFrame4Array object associated with the camera dialogs 'Scan Mode' frame
Read only property	pHFr4CamSpecial(HFrame4 Array	Returns an object reference to the HFrame4Array object associated with the camera dialogs 'Special' frame
Read only property	pHFr4CamStreakT rigger()	HFrame4 Array	Returns an object reference to the HFrame4Array object associated with the camera dialogs 'Streak Trigger' frame
Read only property	pHFraSetupCamer aInfo()	HFrame	Returns an object reference to the HFrame4Array object associated with the camera setup dialogs 'Camera Info' frame
Read only property	pHFraSetupContra stEnhancement()	HFrame	Returns an object reference to the HFrame4Array object associated with the camera setup dialogs 'Contrast

			Enhacement' frame
Read only property	pHFraSetupTempe	HFrame	Returns an object reference to the HFrame4Array object
	rature()		associated with the camera setup dialogs 'Temperature'
			frame
Read only property	pHPr4CamPercent	HProgress	Returns an object reference to the HProgress4Array
	()	4Array	object associated with the camera dialogs 'Percent'
			progress bar
Read only property	pHRa4CamAmpG	HRadios4	Returns an object reference to the HRadios4Array object
	ain()	Array	associated with the camera dialogs 'Amp Gain'
			radiobutton group
Read only property	pHRa4CamPcMod	HRadios4	Returns an object reference to the HRadios4Array object
	e()	Array	associated with the camera dialogs 'Photon Counting
			Mode' radiobutton group
Read only property	pHRa4CamSMD()	HRadios4	Returns an object reference to the HRadios4Array object
		Array	associated with the camera dialogs 'Scan Mode'
D 1 1	IID 10 + C +	IID 1	radiobutton group
Read only property	pHRadSetupContr	HRadios	Returns an object reference to the HRadios object
	astEnhancement()		associated with the camera setup dialogs 'Contast
Read only property	pHRadSubHorSub	HRadios	Enhancement' Returns an object reference to the HRadios object
Read only property	array()	FIRAGIOS	associated with the camera subarray dialogs 'Horizontal
	array()		Subarray' radiobutton group
Read only property	pHTabCamAcqMo	HTab	Returns an object reference to the HTab object
Read only property	de()	11140	associated with the camera dialogs 'Acquisition mode'
	de()		tab group
Read only property	pHWinCamDlg()	HWindow	Returns an object reference to the HWindow object
read only property	pri vi meamo igo	11 () 1140 ()	associated with the camera dialogs main window
Read only property	pHWinSetupDlg()	HWindow	Returns an object reference to the HWindow object
The state of the s	F		associated with the camera setup dialogs main window
Read only property	pHWinSubDlg()	HWindow	Returns an object reference to the HWindow object
			associated with the camera subarry dialogs main window
Read only property	piDatTypeForAcq	Integer	Returns the data type in ACQUIRE mode
	uire()		
Read only property	piDatTypeForAI()	Integer	Returns the data type in Analog Integration mode
Read only property	piDatTypeForLive	Integer	Returns the data type in LIVE mode
	()		
Read only property	piDatTypeForPC()	Integer	Returns the data type in Photon Counting mode
Read only property	psCameraName()	String	Returns the camera name
Read/write property	pfRestoreWindow	Integer	Sets or returns a value which defines whether the
	Pos()		window position, its size and window state is restored
			when the window is displayed again after it has been
D 1/ 1	CC 10	T .	closed
Read/write property	pfStreakOperate()	Integer	A value that tells the camera object whether vertical
			streak operation is switched on. Don't modify this entry
Read/write property	pfStreakOperateD	Integer	otherwise streak trigger handshake may not longer work A value that tells the camera object whether horizontal
read write property	TBE()	meger	streak operation is switched on. Don't modify this entry
	IDL()		otherwise streak trigger handshake may not longer work
Read/write property	pfStreakUseDTBE	Integer	Tells the camera object that a Dual time base extender is
read, write property	()	ince	currently used for trigger handshake
Read/write property	pfUserIF()	Integer	Sets or returns a value which defines whether the
land with property	ricomi		associated window should be shown on screen. A
			window is only displayed under the following condition:
			pfUserIF=TRUE, pfVisible=TRUE,
			pfHideForm=FALSE
Read/write property	piStreakTriggerMe	Integer	Tells the camera (or acquisition/sequence) object the
	thod()		streak trigger method. Don't modify this entry otherwise
			Steak trigger handshake may no longer work
Function	pGetStreakRelated		Returns streak trigger related capabilities of the CCD
	CCDCaps(ByRef		camera
	fCCDCanExtTrig		

	As Integer, ByRef fCCDCanStartStop		
	As Integer, ByRef		
	sExtTrigCCDMeth		
	od As String,		
	ByRef		
	sExtTrigCPUMeth		
	od As String,		
	ByRef		
	sStartStopCCDMet		
	hod As String,		
	ByRef		
	sStartStopCPUMet		
	hod As String)		
Function	psGetStatus()	String	Returns the current camera status string
Sub	pStopAcquisition()		Stops a currently running acquisition

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Read only property	pHCh4CamClearF rameBuffer()	HCheck4 Array	Returns an object reference to the HCheck4Array object associated with the camera dialogs 'Clear frame buffer on start' checkbox
Read only property	pHCh4CamDoRT Backsub()	HCheck4 Array	Returns an object reference to the HCheck4Array object associated with the camera dialogs 'Do Real Time Backsub' checkbox
Read only property	pHCh4CamExtern alTrigger()	HCheck4 Array	Returns an object reference to the HCheck4Array object associated with the camera dialogs 'Streak Trigger Active' checkbox
Read only property	pHCh4CamStreak Trigger()	HCheck4 Array	Returns an object reference to the HCheck4Array object associated with the camera dialogs 'Streak Trigger Active' checkbox
Read only property	pHCo4CamAcquir e()	HComma nd4Array	Returns an object reference to the HCommand4Array object associated with the camera dialogs 'Acquire' pushbuttonpushbutton
Read only property	pHCo4CamDoPCS etup()	HComma nd4Array	Returns an object reference to the HCommand4Array object associated with the camera dialogs 'Do Photon Counting Setup' pushbutton
Read only property	pHCo4CamFreeze(HComma nd4Array	Returns an object reference to the HCommand4Array object associated with the camera dialogs 'Freeze' pushbutton
Read only property	pHCo4CamGetBG Data()	HComma nd4Array	Returns an object reference to the HCommand4Array object associated with the camera dialogs 'Get Background Data' pushbutton
Read only property	pHCo4CamLive()	HComma nd4Array	Returns an object reference to the HCommand4Array object associated with the camera dialogs 'Live' pushbutton
Read only property	pHCo4CamSingle Exposure()	HComma nd4Array	Returns an object reference to the HCommand4Array object associated with the camera dialogs 'Single Exposure' pushbutton
Read only property	pHCo4CamStop()	HComma nd4Array	Returns an object reference to the HCommand4Array object associated with the camera dialogs 'Stop' pushbutton
Read only property	pHComCamDown ()	HComma nd	Returns an object reference to the HCommand object associated with the camera dialogs 'Down' pushbutton (Small down arrow)
Read only property	pHComCamUp()	HComma nd	Returns an object reference to the HCommand object associated with the camera dialogs 'Up' pushbutton (Small up arrow)
Read only property	pHComSetupCanc el()	HComma nd	Returns an object reference to the HCommand object associated with the camera setup dialogs 'Cancel' pushbutton
Read only property	pHComSetupOK()	HComma nd	Returns an object reference to the HCommand object associated with the camera setup dialogs 'OK' pushbutton

	T		T
Read only property	pHDi4CamAbove Threshold()	HDisp4Ar ray	Returns an object reference to the HDisp4Array object associated with the camera dialogs 'Above Threshold' display area
Read only property	pHDi4CamFrmSht ()	HDisp4Ar ray	Returns an object reference to the HDisp4Array object associated with the camera dialogs 'Frames/Shutter' display area
Read only property	pHDi4CamMessag e()	HDisp4Ar ray	Returns an object reference to the HDisp4Array object associated with the camera dialogs 'Message' display area
Read only property	pHDi4CamStreakT rigger()	HDisp4Ar ray	Returns an object reference to the HDisp4Array object associated with the camera dialogs 'Streak Trigger' display area
Read only property	pHDisSetupChip()	HDisp	Returns an object reference to the HDisp object associated with the camera setup dialogs 'Chip' display area
Read only property	pHDisSetupROM(HDisp	Returns an object reference to the HDisp object associated with the camera setup dialogs 'ROM' display area
Read only property	pHDisSetupType()	HDisp	Returns an object reference to the HDisp object associated with the camera setup dialogs 'Type' display area
Read only property	pHDisSetupVersio n()	HDisp	Returns an object reference to the HDisp object associated with the camera setup dialogs 'Version' display area
Read only property	pHDisSetupVolGa in()	HDisp	Returns an object reference to the HDisp object associated with the camera setup dialogs 'Volume Gain' display area
Read only property	pHDisSetupVolOff set()	HDisp	Returns an object reference to the HDisp object associated with the camera setup dialogs 'Volume Offset' display area
Read only property	pHEd4CamNrExp osures()	HEditNu mber4Arr ay	Returns an object reference to the HEditNumber4Array object associated with the camera dialogs 'Number of Exposures' editbox
Read only property	pHEd4CamNrTrig ger()	HEditNu mber4Arr ay	Returns an object reference to the HEditNumber4Array object associated with the camera dialogs 'Number of Streak Trigger' editbox
Read only property	pHEd4CamThresh old()	HEditNu mber4Arr ay	Returns an object reference to the HEditNumber4Array object associated with the camera dialogs 'Threshold' editbox
Read only property	pHEn4CamExposu re()	HEntry4A rray	Returns an object reference to the HEntry4Array object associated with the camera dialogs 'Exposure Time' entrybox
Read only property	pHEntSetupGain()	HEntry	Returns an object reference to the HEntry object associated with the camera setup dialogs 'Gain' entrybox
Read only property	pHEntSetupOffset()	HEntry	Returns an object reference to the HEntry object associated with the camera setup dialogs 'Offset' entrybox
Read only property	pHEs4CamSMDE xtended()	HEditStri ng4Array	Returns an object reference to the HEditString4Array object associated with the camera dialogs 'Scan Mode Extended' editbox
Read only property	pHFr4CamAction(HFrame4 Array	Returns an object reference to the HFrame4Array object associated with the camera dialogs 'Action' frame
Read only property	pHFr4CamExposu reTime()	HFrame4 Array	Returns an object reference to the HFrame4Array object associated with the camera dialogs 'Exposure Time' frame
Read only property	pHFr4CamExterna lTrigger()	HFrame4 Array	Returns an object reference to the HFrame4Array object associated with the camera dialogs 'Streak Trigger' frame
Read only property	pHFr4CamIntegrat ion()	HFrame4 Array	Returns an object reference to the HFrame4Array object associated with the camera dialogs 'Integration' frame
Read only property	pHFr4CamPhoton Counting()	HFrame4 Array	Returns an object reference to the HFrame4Array object associated with the camera dialogs 'Photon Counting'

			frame
Read only property	pHFr4CamRTBS()	HFrame4	Returns an object reference to the HFrame4Array object
Frepring	F	Array	associated with the camera dialogs 'Real Time Backsub'
			frame
Read only property	pHFr4CamScanM	HFrame4	Returns an object reference to the HFrame4Array object
	ode()	Array	associated with the camera dialogs 'Scan Mode' frame
Read only property	pHFr4CamStreakT	HFrame4	Returns an object reference to the HFrame4Array object
	rigger()	Array	associated with the camera dialogs 'Streak Trigger'
Read only property	pHFraSetupCamer	HFrame	Returns an object reference to the HFrame4Array object
	aInfo()		associated with the camera setup dialogs 'Camera Info'
			frame
Read only property	pHFraSetupContra	HFrame	Returns an object reference to the HFrame4Array object
	stEnhancement()		associated with the camera setup dialogs 'Contrast
			Enhacement' frame
Read only property	pHPr4CamPercent	HProgress	Returns an object reference to the HProgress4Array
	()	4Array	object associated with the camera dialogs 'Percent'
D 1 1	TID 1G 1 G	TTD 11 4	progress bar
Read only property	pHRa4CamAmpG	HRadios4	Returns an object reference to the HRadios4Array object
	ain()	Array	associated with the camera dialogs 'Amp Gain'
D 1 1	IID - 4C D - M - 1	IID - 1' 4	radiobutton group
Read only property	pHRa4CamPcMod	HRadios4	Returns an object reference to the HRadios4Array object
	e()	Array	associated with the camera dialogs 'Photon Counting Mode' radiobutton group
Read only property	pHRa4CamSMD()	HRadios4	Returns an object reference to the HRadios4Array object
Read only property	prika4CalliSMD()	Array	associated with the camera dialogs 'Scan Mode'
		Allay	radiobutton group
Read only property	pHRadSetupContr	HRadios	Returns an object reference to the HRadios object
Read only property	astEnhancement()	Tiradios	associated with the camera setup dialogs 'Contast
	ustEmaneement()		Enhancement'
Read only property	pHTabCamAcqMo	HTab	Returns an object reference to the HTab object
Jr Tr J	de()		associated with the camera dialogs 'Acquisition mode'
			tab group
Read only property	pHWinCamDlg()	HWindow	Returns an object reference to the HWindow object
			associated with the camera dialogs main window
Read only property	pHWinSetupDlg()	HWindow	Returns an object reference to the HWindow object
			associated with the camera setup dialogs main window
Read only property	piDatTypeForAcq	Integer	Returns the data type in ACQUIRE mode
	uire()		
Read only property	piDatTypeForAI()	Integer	Returns the data type in Analog Integration mode
Read only property	piDatTypeForLive	Integer	Returns the data type in LIVE mode
D 1 1	()	T	Determed a late to a 's Dheter Court's and la
Read only property	piDatTypeForPC()	Integer	Returns the data type in Photon Counting mode
Read only property	psCameraName()	String	Returns the camera name
Read/write property	pfRestoreWindow	Integer	Sets or returns a value which defines whether the
	Pos()		window position, its size and window state is restored when the window is displayed again after it has been
			closed
Read/write property	pfStreakOperate()	Integer	A value that tells the camera object whether vertical
read, write property	protection()	inicgei	streak operation is switched on. Don't modify this entry
			otherwise streak trigger handshake may not longer work
Read/write property	pfStreakOperateD	Integer	A value that tells the camera object whether horizontal
	TBE()		streak operation is switched on. Don't modify this entry
			otherwise streak trigger handshake may not longer work
Read/write property	pfStreakUseDTBE	Integer	Tells the camera object that a Dual time base extender is
Froperty	()	8-1	currently used for trigger handshake
Read/write property	pfUserIF()	Integer	Sets or returns a value which defines whether the
			associated window should be shown on screen. A
			window is only displayed under the following condition:
			pfUserIF=TRUE, pfVisible=TRUE,
			pfHideForm=FALSE
Function	pGetStreakRelated		Tells the camera (or acquisition/sequence) object the

	CCDCaps(ByRef		streak trigger method. Don't modify this entry otherwise
	fCCDCanExtTrig		Steak trigger handshake may no longer work
	As Integer, ByRef		
	fCCDCanStartStop		
	As Integer, ByRef		
	sExtTrigCCDMeth		
	od As String,		
	ByRef		
	sExtTrigCPUMeth		
	od As String,		
	ByRef		
	sStartStopCCDMet		
	hod As String,		
	ByRef		
	sStartStopCPUMet		
	hod As String)		
Function	psGetStatus()	String	Returns the current camera status string
Sub	pStopAcquisition()	Builig	Stops a currently running acquisition
	pstopAcquisition()		Stops a currently running acquisition
HC474298	T	l	In
Read only property	pHCh4CamClearF	HCheck4	Returns an object reference to the HCheck4Array object
	rameBuffer()	Array	associated with the camera dialogs 'Clear frame buffer on
			start' checkbox
Read only property	pHCh4CamDoRT	HCheck4	Returns an object reference to the HCheck4Array object
	Backsub()	Array	associated with the camera dialogs 'Do Real Time
			Backsub' checkbox
Read only property	pHCh4CamStreak	HCheck4	Returns an object reference to the HCheck4Array object
	Trigger()	Array	associated with the camera dialogs 'Streak Trigger
			Active' checkbox
Read only property	pHChkSetupCoole	HCheck	
	r()		
Read only property	pHCo4CamAcquir	HComma	Returns an object reference to the HCommand4Array
	e()	nd4Array	object associated with the camera dialogs 'Acquire'
			pushbutton
Read only property	pHCo4CamDoPCS	HComma	Returns an object reference to the HCommand4Array
	etup()	nd4Array	object associated with the camera dialogs 'Do Photon
			Counting Setup' pushbutton
Read only property	pHCo4CamFreeze(HComma	Returns an object reference to the HCommand4Array
)	nd4Array	object associated with the camera dialogs 'Freeze'
			pushbutton
Read only property	pHCo4CamGetBG	HComma	Returns an object reference to the HCommand4Array
J1 1 J	Data()	nd4Array	object associated with the camera dialogs 'Get
	, , , , , , , , , , , , , , , , , , ,		Background Data' pushbutton
Read only property	pHCo4CamLive()	HComma	Returns an object reference to the HCommand4Array
om, property	r-100.04mbr.00)	nd4Array	object associated with the camera dialogs 'Live'
		1	pushbutton
Read only property	pHCo4CamSingle	HComma	Returns an object reference to the HCommand4Array
om, property	Exposure()	nd4Array	object associated with the camera dialogs 'Single
	P()	1	

HComma

nd4Array

HComma

HComma

HComma

HComma

nd

nd

Read only property

pHCo4CamStop()

pHComCamDown

pHComCamUp()

pHComSetupCanc

pHComSetupOK()

Exposure' pushbutton

(Small down arrow)

(Small up arrow)

pushbutton

Returns an object reference to the HCommand4Array

Returns an object reference to the HCommand object

associated with the camera dialogs 'Down' pushbutton

Returns an object reference to the HCommand object

Returns an object reference to the HCommand object associated with the camera setup dialogs 'Cancel'

Returns an object reference to the HCommand object

associated with the camera dialogs 'Up' pushbutton

object associated with the camera dialogs 'Stop'

		nd	associated with the camera setup dialogs 'OK' pushbutton
Read only property	pHDi4CamAbove Threshold()	HDisp4Ar ray	Returns an object reference to the HDisp4Array object associated with the camera dialogs 'Above Threshold'
Read only property	pHDi4CamMessag e()	HDisp4Ar ray	Returns an object reference to the HDisp4Array object associated with the camera dialogs 'Message' display
Read only property	pHDi4CamStreakT rigger()	HDisp4Ar ray	Returns an object reference to the HDisp4Array object associated with the camera dialogs 'Streak Trigger' display area
Read only property	pHDisSetupActual Temperature()	HDisp	uispiay area
Read only property	pHDisSetupCamer aInfo()	HDisp	Returns an object reference to the HDisp object associated with the camera setup dialogs 'Camera Info' display area
Read only property	pHDisSetupConfig uration()	HDisp	display area
Read only property	pHDisSetupVolGa in()	HDisp	
Read only property	pHDisSetupVolOff set()	HDisp	
Read only property	pHDisSubLower()	HDisp	Returns an object reference to the HDisp object associated with the camera subarray dialogs 'Lower' display area
Read only property	pHDisSubUpper()	HDisp	Returns an object reference to the HDisp object associated with the camera subarray dialogs 'Upper' display area
Read only property	pHDisSubWidth()	HDisp	Returns an object reference to the HDisp object associated with the camera subarray dialogs 'Width' display area
Read only property	pHEd4CamNrExp osures()	HEditNu mber4Arr ay	Returns an object reference to the HEditNumber4Array object associated with the camera dialogs 'Number of Exposures' editbox
Read only property	pHEd4CamNrTrig ger()	HEditNu mber4Arr ay	Returns an object reference to the HEditNumber4Array object associated with the camera dialogs 'Number of Streak Trigger' editbox
Read only property	pHEd4CamThresh old()	HEditNu mber4Arr ay	Returns an object reference to the HEditNumber4Array object associated with the camera dialogs 'Threshold' editbox
Read only property	pHEdnSetupTarget Temperature()	HEditNu mber	Culton
Read only property	pHEn4CamExposu re()	HEntry4A rray	Returns an object reference to the HEntry4Array object associated with the camera dialogs 'Exposure Time' entrybox
Read only property	pHEn4CamGain()	HEntry4A rray	Returns an object reference to the HEntry4Array object associated with the camera dialogs 'Analog Gain' entrybox
Read only property	pHEn4CamOffset(HEntry4A rray	Returns an object reference to the HEntry4Array object associated with the camera dialogs 'Analog Offset' entrybox
Read only property	pHEn4CamSPX()	HEntry4A rray	Returns an object reference to the HEntry4Array object associated with the camera dialogs 'Superpixel' entrybox
Read only property	pHEntSubLower()	HEntry	Returns an object reference to the HEntry object associated with the camera subarray dialogs 'Lower' entrybox
Read only property	pHEntSubUpper()	HEntry	Returns an object reference to the HEntry object associated with the camera subarray dialogs 'Upper' entrybox
Read only property	pHFr4CamAction(HFrame4 Array	Returns an object reference to the HFrame4Array object associated with the camera dialogs 'Action' frame
Read only property	pHFr4CamExposu	HFrame4	Returns an object reference to the HFrame4Array object

reTime() Read only property PHFr4CamGainOf fset() Read only property PHFr4CamIntegrat darray PHFr4CamIntegrat darray PHFr4CamIntegrat darray PHFr4CamIntegrat darray PHFr4CamIntegrat darray PHFr4CamIntegrat darray Read only property PHFr4CamPhoton Counting() Read only property PHFr4CamRTBS() Read only property PHFr4CamRTBS() Read only property Read only property PHFr4CamScanM dode() Read only property PHFr4CamStreakT rigger() Read only property PHFraSetupCamer alinfo() Read only property PHRa4CamPcMod ec() Read only property PHRa4CamSMD() Read only property Read only property PHRa4CamSMD() Read only property PHRa4CamSMD() Read only property Read only property PHRa4CamSMD() PHRa4CamSMD() Read only property PHRa4CamSMD() PHRa4CamSMD() PHRa4CamSMD() Read only property PHRa4CamSMD() PHRa4CamSMD() PHRa4CamSMD() Read only property PHRa4CamSMD() PHRa4CamSM
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Read only property PHRadSetupLight Mode() Read only property PHRadSetupShutte rAction() Read only property PHRadSetupTimin gMode() Returns an object reference to the HRadios object associated with the camera dialogs 'Scan Mode' radiobutton group Returns an object reference to the HRadios object associated with the camera setup dialogs 'Timing Mode' radiobutton group
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Read only property pHRa4CamSMD() HRadios4 Array Array Returns an object reference to the HRadios4Array object associated with the camera dialogs 'Photon Counting Mode' radiobutton group Read only property pHRadSetupLight Mode() HRadios HRadios PhRadSetupShutte rAction() PHRadSetupTimin gMode() HRadios Returns an object reference to the HRadios object associated with the camera dialogs 'Scan Mode' radiobutton group PHRadSetupShutte rAction() Read only property pHRadSetupTimin gMode() HRadios Returns an object reference to the HRadios object associated with the camera setup dialogs 'Timing Mode' radiobutton group PHRadSetupTimin gMode' radiobutton gmode' r
Read only property pHRa4CamSMD() HRadios4 Array Returns an object reference to the HRadios4Array object associated with the camera dialogs 'Scan Mode' radiobutton group Read only property pHRadSetupLight Mode() Read only property pHRadSetupShutte rAction() Read only property pHRadSetupTimin gMode() Returns an object reference to the HRadios object associated with the camera setup dialogs 'Timing Mode' radiobutton group
Read only property pHRa4CamSMD() HRadios4 Array Array associated with the camera dialogs 'Scan Mode' radiobutton group PHRadSetupLight Mode() PHRadSetupShutte rAction() PHRadSetupTimin gMode() PHRadSetupTimin gMode() PHRadSetupTimin gMode() PHRadSetupTimin radiobutton group PHRadSetupTimin PHRadios PH
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Mode() Read only property pHRadSetupShutte HRadios rAction() Read only property pHRadSetupTimin gMode() HRadios Returns an object reference to the HRadios object associated with the camera setup dialogs 'Timing Mode' radiobutton group
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Read only property pHRadSetupTimin gMode() Returns an object reference to the HRadios object associated with the camera setup dialogs 'Timing Mode' radiobutton group
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Read only property pHRadSetupTrigge HRadios Returns an object reference to the HRadios object
rMode() associated with the camera setup dialogs 'Trigger Mode' radiobutton group
Read only property pHRadSetupTrigge HRadios Returns an object reference to the HRadios object
rPolarity() associated with the camera setup dialogs 'Trigger'
Polarity' radiobutton group
Read only property pHRadSetupTrigge HRadios
rSource()
Read only property pHRadSubHorSub HRadios Returns an object reference to the HRadios object
array() associated with the camera subarray dialogs 'Horizontal Subarray' radiobutton group
Read only property pHTabCamAcqMo HTab Returns an object reference to the HTab object
de() associated with the camera dialogs 'Acquisition mode'
tab group
Read only property pHWinCamDlg() HWindow Returns an object reference to the HWindow object
associated with the camera dialogs main window
Read only property pHWinSetupDlg() HWindow Returns an object reference to the HWindow object
associated with the camera setup dialogs main window
Read only property pHWinSubDlg() HWindow Returns an object reference to the HWindow object associated with the camera subarry dialogs main window
Read only property piDatTypeForAcq Integer Returns the data type in ACQUIRE mode
uire()
Read only property piDatTypeForAI() Integer Returns the data type in Analog Integration mode
Read only property piDatTypeForLive Integer Returns the data type in LIVE mode

	()		
Read only property	piDatTypeForPC()	Integer	Returns the data type in Photon Counting mode
Read only property	psCameraName()	String	Returns the camera name
Read/write property	pfRestoreWindow Pos()	Integer	Sets or returns a value which defines whether the window position, its size and window state is restored when the window is displayed again after it has been closed
Read/write property	pfStreakOperate()	Integer	A value that tells the camera object whether vertical streak operation is switched on. Don't modify this entry otherwise streak trigger handshake may not longer work
Read/write property	pfStreakOperateD TBE()	Integer	A value that tells the camera object whether horizontal streak operation is switched on. Don't modify this entry otherwise streak trigger handshake may not longer work
Read/write property	pfStreakUseDTBE ()	Integer	Tells the camera object that a Dual time base extender is currently used for trigger handshake
Read/write property	pfUserIF()	Integer	Sets or returns a value which defines whether the associated window should be shown on screen. A window is only displayed under the following condition: pfUserIF=TRUE, pfVisible=TRUE, pfHideForm=FALSE
Read/write property	piStreakTriggerMe thod()	Integer	Tells the camera (or acquisition/sequence) object the streak trigger method. Don't modify this entry otherwise Steak trigger handshake may no longer work
Function	pGetStreakRelated CCDCaps(ByRef fCCDCanExtTrig As Integer, ByRef fCCDCanStartStop As Integer, ByRef sExtTrigCCDMeth od As String, ByRef sExtTrigCPUMeth od As String, ByRef sStartStopCCDMet hod As String, ByRef sStartStopCCDMet hod As String, ByRef sStartStopCPUMet hod As String)		Returns streak trigger related capabilities of the CCD camera
Function	psGetStatus()	String	Returns the current camera status string
	psGetStatus()	Sumg	Returns the current camera status string

Sub **HC7300**

Read only property	pHCh4CamClearF rameBuffer()	HCheck4 Array	Returns an object reference to the HCheck4Array object associated with the camera dialogs 'Clear frame buffer on start' checkbox
Read only property	pHCh4CamDoRT Backsub()	HCheck4 Array	Returns an object reference to the HCheck4Array object associated with the camera dialogs 'Do Real Time Backsub' checkbox
Read only property	pHCh4CamStreak Trigger()	HCheck4 Array	Returns an object reference to the HCheck4Array object associated with the camera dialogs 'Streak Trigger Active' checkbox
Read only property	pHCo4CamAcquir e()	HComma nd4Array	Returns an object reference to the HCommand4Array object associated with the camera dialogs 'Acquire' pushbuttonpushbutton
Read only property	pHCo4CamDoPCS etup()	HComma nd4Array	Returns an object reference to the HCommand4Array object associated with the camera dialogs 'Do Photon Counting Setup' pushbutton
Read only property	pHCo4CamFreeze(HComma nd4Array	Returns an object reference to the HCommand4Array object associated with the camera dialogs 'Freeze' pushbutton

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Read only property	pHCo4CamGetBG Data()	HComma nd4Array	Returns an object reference to the HCommand4Array object associated with the camera dialogs 'Get Background Data' pushbutton
Read only property	pHCo4CamLive()	HComma nd4Array	Returns an object reference to the HCommand4Array object associated with the camera dialogs 'Live' pushbutton
Read only property	pHCo4CamSingle Exposure()	HComma nd4Array	Returns an object reference to the HCommand4Array object associated with the camera dialogs 'Single Exposure' pushbutton
Read only property	pHCo4CamStop()	HComma nd4Array	Returns an object reference to the HCommand4Array object associated with the camera dialogs 'Stop' pushbutton
Read only property	pHComCamDown ()	HComma nd	Returns an object reference to the HCommand object associated with the camera dialogs 'Down' pushbutton (Small down arrow)
Read only property	pHComCamUp()	HComma nd	Returns an object reference to the HCommand object associated with the camera dialogs 'Up' pushbutton
Read only property	pHComSetupCanc el()	HComma nd	Returns an object reference to the HCommand object associated with the camera setup dialogs 'Cancel' pushbutton
Read only property	pHComSetupOK()	HComma nd	Returns an object reference to the HCommand object associated with the camera setup dialogs 'OK' pushbutton
Read only property	pHDi4CamAbove Threshold()	HDisp4Ar ray	Returns an object reference to the HDisp4Array object associated with the camera dialogs 'Above Threshold' display area
Read only property	pHDi4CamMessag e()	HDisp4Ar ray	Returns an object reference to the HDisp4Array object associated with the camera dialogs 'Message' display area
Read only property	pHDi4CamStreakT rigger()	HDisp4Ar ray	Returns an object reference to the HDisp4Array object associated with the camera dialogs 'Streak Trigger' display area
Read only property	pHDisSetupCamer aInfo()	HDisp	Returns an object reference to the HDisp object associated with the camera setup dialogs 'Camera Info' display area
Read only property	pHEd4CamNrExp osures()	HEditNu mber4Arr ay	Returns an object reference to the HEditNumber4Array object associated with the camera dialogs 'Number of Exposures' editbox
Read only property	pHEd4CamNrTrig ger()	HEditNu mber4Arr ay	Returns an object reference to the HEditNumber4Array object associated with the camera dialogs 'Number of Streak Trigger' editbox
Read only property	pHEd4CamThresh old()	HEditNu mber4Arr ay	Returns an object reference to the HEditNumber4Array object associated with the camera dialogs 'Threshold' editbox
Read only property	pHEn4CamExposu re()	HEntry4A rray	Returns an object reference to the HEntry4Array object associated with the camera dialogs 'Exposure Time' entrybox
Read only property	pHEn4CamGain()	HEntry4A rray	Returns an object reference to the HEntry4Array object associated with the camera dialogs 'Analog Gain' entrybox
Read only property	pHEn4CamOffset(HEntry4A rray	Returns an object reference to the HEntry4Array object associated with the camera dialogs 'Analog Offset' entrybox
Read only property	pHEntSetupOffset()	HEntry	Returns an object reference to the HEntry object associated with the camera setup dialogs 'Offset' entrybox
Read only property	pHEntSetupWidth(HEntry	Returns an object reference to the HEntry object associated with the camera setup dialogs 'Width' entrybox
Read only property	pHFr4CamAction(HFrame4 Array	Returns an object reference to the HFrame4Array object associated with the camera dialogs 'Action' frame
Read only property	pHFr4CamExposu	HFrame4	Returns an object reference to the HFrame4Array object

	reTime()	Array	associated with the camera dialogs 'Exposure Time'
			frame
Read only property	pHFr4CamGainOf	HFrame4	Returns an object reference to the HFrame4Array object
	fset()	Array	associated with the camera dialogs 'Analog Gain' frame
Read only property	pHFr4CamIntegrat	HFrame4	Returns an object reference to the HFrame4Array object
	ion()	Array	associated with the camera dialogs 'Integration' frame
Read only property	pHFr4CamPhoton	HFrame4	Returns an object reference to the HFrame4Array object
	Counting()	Array	associated with the camera dialogs 'Photon Counting'
		-	frame
Read only property	pHFr4CamRTBS()	HFrame4	Returns an object reference to the HFrame4Array object
		Array	associated with the camera dialogs 'Real Time Backsub'
			frame
Read only property	pHFr4CamStreakT	HFrame4	Returns an object reference to the HFrame4Array object
	rigger()	Array	associated with the camera dialogs 'Streak Trigger' frame
Read only property	pHFraSetupScanM	HFrame	Returns an object reference to the HFrame object
	ode()		associated with the camera setup dialogs 'Scan Mode'
			frame
Read only property	pHPr4CamPercent	HProgress	Returns an object reference to the HProgress4Array
	()	4Array	object associated with the camera dialogs 'Percent'
			progress bar
Read only property	pHRa4CamPcMod	HRadios4	Returns an object reference to the HRadios4Array object
	e()	Array	associated with the camera dialogs 'Photon Counting
	*** 10 0		Mode' radiobutton group
Read only property	pHRadSetupScan	HRadios	Returns an object reference to the HRadios object
	Mode()		associated with the camera setup dialogs 'Scan Mode'
D 1 1	TTD 10	***	radiobutton group
Read only property	pHRadSetupTimin	HRadios	Returns an object reference to the HRadios object
	gMode()		associated with the camera setup dialogs 'Timing Mode'
D 1 1	TID 10 . TI	TID 1:	radiobutton group
Read only property	pHRadSetupTrigge	HRadios	Returns an object reference to the HRadios object
	rMode()		associated with the camera setup dialogs 'Trigger Mode'
D 1 1	IID - 1C - 4T-1	IID . 1'	radiobutton group
Read only property	pHRadSetupTrigge rPolarity()	HRadios	Returns an object reference to the HRadios object associated with the camera setup dialogs 'Trigger
	irolanty()		Polarity' radiobutton group
Read only property	pHRadSetupTrigge	HRadios	Returns an object reference to the HRadios object
Read only property	rSource()	Tiradios	associated with the camera setup dialogs 'Trigger Source'
	150tiree()		radiobutton group
Read only property	pHRadSetupXDire	HRadios	Returns an object reference to the HRadios object
read only property	ction()	TITUGIOS	associated with the camera setup dialogs 'X Direction'
	Cuon()		radiobutton group
Read only property	pHTabCamAcqMo	HTab	Returns an object reference to the HTab object
J I II J	de()		associated with the camera dialogs 'Acquisition mode'
	V		tab group
Read only property	pHWinCamDlg()	HWindow	Returns an object reference to the HWindow object
			associated with the camera dialogs main window
Read only property	pHWinSetupDlg()	HWindow	Returns an object reference to the HWindow object
			associated with the camera setup dialogs main window
Read only property	piDatTypeForAcq	Integer	Returns the data type in ACQUIRE mode
	uire()		
Read only property	piDatTypeForAI()	Integer	Returns the data type in Analog Integration mode
Read only property	piDatTypeForLive	Integer	Returns the data type in LIVE mode
	()		
Read only property	piDatTypeForPC()	Integer	Returns the data type in Photon Counting mode
Read only property	psCameraName()	String	Returns the camera name
Read/write property	pfRestoreWindow	Integer	Sets or returns a value which defines whether the
	Pos()		window position, its size and window state is restored
			when the window is displayed again after it has been
			closed
Read/write property	pfUserIF()	Integer	Sets or returns a value which defines whether the
			associated window should be shown on screen. A

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			window is only displayed under the following condition:
			pfUserIF=TRUE, pfVisible=TRUE,
	~ ~ .		pfHideForm=FALSE
Function	psGetStatus()	String	Returns the current camera status string
Sub	pStopAcquisition()		Stops a currently running acquisition
HC800010			
Read only property	pHCh4CamClearF	HCheck4	Returns an object reference to the HCheck4Array object
	rameBuffer()	Array	associated with the camera dialogs 'Clear frame buffer on
			start' checkbox
Read only property	pHCh4CamDoRT	HCheck4	Returns an object reference to the HCheck4Array object
	Backsub()	Array	associated with the camera dialogs 'Do Real Time
			Backsub' checkbox
Read only property	pHCo4CamAcquir	HComma	Returns an object reference to the HCommand4Array
	e()	nd4Array	object associated with the camera dialogs 'Acquire'
			pushbutton
Read only property	pHCo4CamDoPCS	HComma	Returns an object reference to the HCommand4Array
	etup()	nd4Array	object associated with the camera dialogs 'Do Photon
D 1 1	HG 4G F	IIC	Counting Setup' pushbutton
Read only property	pHCo4CamFreeze(HComma	Returns an object reference to the HCommand4Array
)	nd4Array	object associated with the camera dialogs 'Freeze'
D 1 1	IIC AC C ADC	HC	pushbutton
Read only property	pHCo4CamGetBG	HComma	Returns an object reference to the HCommand4Array
	Data()	nd4Array	object associated with the camera dialogs 'Get
Read only property	pHCo4CamLive()	HComma	Background Data' pushbutton Returns an object reference to the HCommand4Array
Read only property	phco4canilive()	nd4Array	object associated with the camera dialogs 'Live'
		iiu4Aiiay	pushbutton
Read only property	pHCo4CamSingle	HComma	Returns an object reference to the HCommand4Array
Read only property	Exposure()	nd4Array	object associated with the camera dialogs 'Single
	Lxposure()	IId-Airay	Exposure' pushbutton
Read only property	pHCo4CamStop()	HComma	Returns an object reference to the HCommand4Array
Read only property	prico (cambiop()	nd4Array	object associated with the camera dialogs 'Stop'
		na minay	pushbutton
Read only property	pHComCamDown	HComma	Returns an object reference to the HCommand object
read only property	()	nd	associated with the camera dialogs 'Down' pushbutton
			(Small down arrow)
Read only property	pHComCamUp()	HComma	Returns an object reference to the HCommand object
Transfer of the state of the st	F	nd	associated with the camera dialogs 'Up' pushbutton
			(Small up arrow)
Read only property	pHComSetupCanc	HComma	Returns an object reference to the HCommand object
	el()	nd	associated with the camera setup dialogs 'Cancel'
	,		pushbutton
Read only property	pHComSetupOK()	HComma	Returns an object reference to the HCommand object
		nd	associated with the camera setup dialogs 'OK' pushbutton
Read only property	pHDi4CamAbove	HDisp4Ar	Returns an object reference to the HDisp4Array object
	Threshold()	ray	associated with the camera dialogs 'Above Threshold'
			display area
Read only property	pHDi4CamMessag	HDisp4Ar	Returns an object reference to the HDisp4Array object
	e()	ray	associated with the camera dialogs 'Message' display
			area
Read only property	pHDisSetupCamer	HDisp	Returns an object reference to the HDisp object
	aInfo()		associated with the camera setup dialogs 'Camera Info'
			display area
Read only property	pHDisSetupScanA	HDisp	Returns an object reference to the HDisp object
	rea()		associated with the camera setup dialogs 'Scan Area'
			display area
Read only property	pHEd4CamNrExp	HEditNu	Returns an object reference to the HEditNumber4Array
	osures()	mber4Arr	object associated with the camera dialogs 'Number of
		ay	Exposures' editbox
Read only property	pHEd4CamThresh	HEditNu	Returns an object reference to the HEditNumber4Array

	old()	mber4Arr	object associated with the camera dialogs 'Threshold'
	v	ay	editbox
Read only property	pHEdnSetupHOffs ()	HEditNu mber	Returns an object reference to the HEditNumber object associated with the setup dialogs 'Horizontal Offset' (subarray mode) editbox
Read only property	pHEdnSetupHWid th()	HEditNu mber	Returns an object reference to the HEditNumber object associated with the setup dialogs 'Horizontal Width' (subarray mode) editbox
Read only property	pHEdnSetupVOffs ()	HEditNu mber	Returns an object reference to the HEditNumber object associated with the setup dialogs 'Vertical Offset' (subarray mode) editbox
Read only property	pHEdnSetupVWid th()	HEditNu mber	Returns an object reference to the HEditNumber object associated with the setup dialogs 'Vertical Width' (subarray mode) editbox
Read only property	pHEn4CamExposu re()	HEntry4A rray	Returns an object reference to the HEntry4Array object associated with the camera dialogs 'Exposure Time' entrybox
Read only property	pHEn4CamGain()	HEntry4A rray	Returns an object reference to the HEntry4Array object associated with the camera dialogs 'Analog Gain' entrybox
Read only property	pHEn4CamOffset(HEntry4A rray	Returns an object reference to the HEntry4Array object associated with the camera dialogs 'Analog Offset' entrybox
Read only property	pHFr4CamAction(HFrame4 Array	Returns an object reference to the HFrame4Array object associated with the camera dialogs 'Action' frame
Read only property	pHFr4CamExposu reTime()	HFrame4 Array	Returns an object reference to the HFrame4Array object associated with the camera dialogs 'Exposure Time' frame
Read only property	pHFr4CamGainOf fset()	HFrame4 Array	Returns an object reference to the HFrame4Array object associated with the camera dialogs 'Analog Gain' frame
Read only property	pHFr4CamIntegrat ion()	HFrame4 Array	Returns an object reference to the HFrame4Array object associated with the camera dialogs 'Integration' frame
Read only property	pHFr4CamPhoton Counting()	HFrame4 Array	Returns an object reference to the HFrame4Array object associated with the camera dialogs 'Photon Counting' frame
Read only property	pHFr4CamRTBS()	HFrame4 Array	Returns an object reference to the HFrame4Array object associated with the camera dialogs 'Real Time Backsub' frame
Read only property	pHFraSetupSubarr ay()	HFrame	Returns an object reference to the HFrame object associated with the setup dialogs 'Subarray' frame
Read only property	pHPr4CamPercent ()	HProgress 4Array	Returns an object reference to the HProgress4Array object associated with the camera dialogs 'Percent' progress bar
Read only property	pHRa4CamPcMod e()	HRadios4 Array	Returns an object reference to the HRadios4Array object associated with the camera dialogs 'Photon Counting Mode' radiobutton group
Read only property	pHRadSetupBinni ng()	HRadios	Returns an object reference to the HRadios object associated with the camera setup dialogs 'Binning' radiobutton group
Read only property	pHRadSetupScan Mode()	HRadios	Returns an object reference to the HRadios object associated with the camera setup dialogs 'Scan Mode' radiobutton group
Read only property	pHRadSetupScanS peed()	HRadios	Returns an object reference to the HRadios object associated with the camera setup dialogs 'CCD Area' radiobutton group
Read only property	pHRadSetupTimin gMode()	HRadios	Returns an object reference to the HRadios object associated with the camera setup dialogs 'Timing Mode' radiobutton group
Read only property	pHRadSetupTrigge rMode()	HRadios	Returns an object reference to the HRadios object associated with the camera setup dialogs 'Trigger Mode' radiobutton group

Read only property	pHRadSetupTrigge rPolarity()	HRadios	Returns an object reference to the HRadios object associated with the camera setup dialogs 'Trigger Polarity' radiobutton group
Read only property	pHTabCamAcqMo de()	HTab	Returns an object reference to the HTab object associated with the camera dialogs 'Acquisition mode' tab group
Read only property	pHWinCamDlg()	HWindow	Returns an object reference to the HWindow object associated with the camera dialogs main window
Read only property	pHWinSetupDlg()	HWindow	Returns an object reference to the HWindow object associated with the camera setup dialogs main window
Read only property	piDatTypeForAcq uire()	Integer	Returns the data type in ACQUIRE mode
Read only property	piDatTypeForAI()	Integer	Returns the data type in Analog Integration mode
Read only property	piDatTypeForLive ()	Integer	Returns the data type in LIVE mode
Read only property	piDatTypeForPC()	Integer	Returns the data type in Phton Counting mode
Read only property	psCameraName()	String	Returns the camera name
Read/write property	pfRestoreWindow Pos()	Integer	Sets or returns a value which defines whether the window position, its size and window state is restored when the window is displayed again after it has been closed
Read/write property	pfUserIF()	Integer	Sets or returns a value which defines whether the associated window should be shown on screen. A window is only displayed under the following condition: pfUserIF=TRUE, pfVisible=TRUE, pfHideForm=FALSE
Function	psGetStatus()	String	Returns the current camera status string
Sub	pStopAcquisition()		Stops a currently running acquisition

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Read only property	pHCh4CamBGSub ()	HCheck4 Array	Returns an object reference to the HCheck4Array object associated with the camera dialogs 'Background subtraction (camera feature)' checkbox
Read only property	pHCh4CamClearF rameBuffer()	HCheck4 Array	Returns an object reference to the HCheck4Array object associated with the camera dialogs 'Clear frame buffer on start' checkbox
Read only property	pHCh4CamDoRT Backsub()	HCheck4 Array	Returns an object reference to the HCheck4Array object associated with the camera dialogs 'Real Time Background Subtraction' checkbox
Read only property	pHCh4CamHighV oltage()	HCheck4 Array	Returns an object reference to the HCheck4Array object associated with the camera dialogs 'High Voltage' checkbox
Read only property	pHCh4CamRecurF ilter()	HCheck4 Array	Returns an object reference to the HCheck4Array object associated with the camera dialogs 'Recursive Filter' checkbox
Read only property	pHCo4CamAcquir e()	HComma nd4Array	Returns an object reference to the HCommand4Array object associated with the camera dialogs 'Acquire' pushbuttonpushbutton
Read only property	pHCo4CamDoPCS etup()	HComma nd4Array	Returns an object reference to the HCommand4Array object associated with the camera dialogs 'Do Photon Counting Setup' pushbutton
Read only property	pHCo4CamFreeze(HComma nd4Array	Returns an object reference to the HCommand4Array object associated with the camera dialogs 'Freeze' pushbutton
Read only property	pHCo4CamGetBG Data()	HComma nd4Array	Returns an object reference to the HCommand4Array object associated with the camera dialogs 'Get Background Data' pushbutton
Read only property	pHCo4CamLive()	HComma nd4Array	Returns an object reference to the HCommand4Array object associated with the camera dialogs 'Live' pushbutton
Read only property	pHCo4CamSingle	HComma	Returns an object reference to the HCommand4Array

		1 14 4	
	Exposure()	nd4Array	object associated with the camera dialogs 'Single Exposure' pushbutton
Read only property	pHCo4CamStop()	HComma nd4Array	Returns an object reference to the HCommand4Array object associated with the camera dialogs 'Stop' pushbutton
Read only property	pHCo4CamStoreB GSub()	HComma nd4Array	
Read only property	pHComCamDown ()	HComma nd	Returns an object reference to the HCommand object associated with the camera dialogs 'Down' pushbutton (Small down arrow)
Read only property	pHComCamUp()	HComma nd	Returns an object reference to the HCommand object associated with the camera dialogs 'Up' pushbutton (Small up arrow)
Read only property	pHComSetupOK()	HComma nd	Returns an object reference to the HCommand object associated with the camera setup dialogs 'OK' pushbutton
Read only property	pHDi4CamAbove Threshold()	HDisp4Ar ray	Returns an object reference to the HDisp4Array object associated with the camera dialogs 'Above Threshold' display area
Read only property	pHDi4CamMessag e()	HDisp4Ar ray	Returns an object reference to the HDisp4Array object associated with the camera dialogs 'Message' display area
Read only property	pHDisSetupCamer aInfo()	HDisp	Returns an object reference to the HDisp object associated with the camera setup dialogs 'Camera Info' display area
Read only property	pHEd4CamBGOff set()	HEditNu mber4Arr ay	Returns an object reference to the HEditNumber4Array object associated with the camera dialogs 'Background Offset (camera feature)' checkbox
Read only property	pHEd4CamNrExp osures()	HEditNu mber4Arr ay	Returns an object reference to the HEditNumber4Array object associated with the camera dialogs 'Number of Exposures' editbox
Read only property	pHEd4CamThresh old()	HEditNu mber4Arr ay	Returns an object reference to the HEditNumber4Array object associated with the camera dialogs 'Threshold' editbox
Read only property	pHEn4CamGain()	HEntry4A rray	Returns an object reference to the HEntry4Array object associated with the camera dialogs 'Analog Gain' entrybox
Read only property	pHEn4CamHVolta ge()	HEntry4A rray	Returns an object reference to the HEntry4Array object associated with the camera dialogs 'High Voltage' entrybox
Read only property	pHEn4CamOffset(HEntry4A rray	Returns an object reference to the HEntry4Array object associated with the camera dialogs 'Analog Offset' entrybox
Read only property	pHEn4CamRecur Number()	HEntry4A rray	Returns an object reference to the HEntry4Array object associated with the camera dialogs 'Recursive Number' entrybox
Read only property	pHFr4CamAction(HFrame4 Array	Returns an object reference to the HFrame4Array object associated with the camera dialogs 'Action' frame
Read only property	pHFr4CamControl lerFeatures()	HFrame4 Array	Returns an object reference to the HFrame4Array object associated with the camera dialogs 'Exposure Time' frame
Read only property	pHFr4CamIntegrat ion()	HFrame4 Array	Returns an object reference to the HFrame4Array object associated with the camera dialogs 'Integration' frame
Read only property	pHFr4CamPhoton Counting()	HFrame4 Array	Returns an object reference to the HFrame4Array object associated with the camera dialogs 'Photon Counting' frame
Read only property	pHFr4CamRTBS()	HFrame4 Array	Returns an object reference to the HFrame4Array object associated with the camera dialogs 'Real Time Backsub' frame
Read only property	pHPr4CamPercent ()	HProgress 4Array	Returns an object reference to the HProgress4Array object associated with the camera dialogs 'Percent' progress bar

Read only property	pHComCamUp()	HComma	Returns an object reference to the HCommand object
Pand only property	()	nd	associated with the camera dialogs 'Down' pushbutton (Small down arrow)
Read only property	pHComCamDown	nd4Array HComma	object associated with the camera dialogs 'Stop' pushbutton Returns an object reference to the HCommand object
Read only property	pHCo4CamStop()	HComma	Exposure' pushbutton Returns an object reference to the HCommand4Array
Read only property	pHCo4CamSingle Exposure()	HComma nd4Array	Returns an object reference to the HCommand4Array object associated with the camera dialogs 'Single
Read only property	pHCo4CamLive()	HComma nd4Array	Returns an object reference to the HCommand4Array object associated with the camera dialogs 'Live' pushbutton
Read only property	pHCo4CamGetBG Data()	HComma nd4Array	Returns an object reference to the HCommand4Array object associated with the camera dialogs 'Get Background Data' pushbutton
Read only property	pHCo4CamFreeze()	HComma nd4Array	Returns an object reference to the HCommand4Array object associated with the camera dialogs 'Freeze' pushbutton
Read only property	pHCo4CamDoPCS etup()	nd4Array	Returns an object reference to the HCommand4Array object associated with the camera dialogs 'Do Photon Counting Setup' pushbutton
Read only property	pHCo4CamAcquir e()	HComma nd4Array	Returns an object reference to the HCommand4Array object associated with the camera dialogs 'Acquire' pushbuttonpushbutton
Read only property	pHCh4CamDoRT Backsub()	HCheck4 Array	Returns an object reference to the HCheck4Array object associated with the camera dialogs 'Do Real Time Backsub' checkbox
Read only property	pHCh4CamClearF rameBuffer()	HCheck4 Array	Returns an object reference to the HCheck4Array object associated with the camera dialogs 'Clear frame buffer on start' checkbox
HFlatPanel			
Sub	pStopAcquisition()		Stops a currently running acquisition
Function	psGetStatus()	String	pfHideForm=FALSE Returns the current camera status string
	· ·	<i>6</i> ··	associated window should be shown on screen. A window is only displayed under the following condition: pfUserIF=TRUE, pfVisible=TRUE,
Read/write property	Pos() pfUserIF()	Integer	window position, its size and window state is restored when the window is displayed again after it has been closed Sets or returns a value which defines whether the
Read only property Read/write property	psCameraName() pfRestoreWindow	Integer	Sets or returns a value which defines whether the
Read only property	piDatTypeForPC()	Integer String	Returns the data type in Photon Counting mode Returns the camera name
Read only property	piDatTypeForLive ()	Integer	Returns the data type in LIVE mode
Read only property	piDatTypeForAI()	Integer	Returns the data type in Analog Integration mode
Read only property	piDatTypeForAcq uire()	Integer	Returns the data type in ACQUIRE mode
Read only property	pHWinSetupDlg()	HWindow	Returns an object reference to the HWindow object associated with the camera setup dialogs main window
Read only property	pHWinCamDlg()	HWindow	Returns an object reference to the HWindow object associated with the camera dialogs main window
Read only property	pHTabCamAcqMo de()	HTab	Returns an object reference to the HTab object associated with the camera dialogs 'Acquisition mode' tab group
Read only property	pHRa4CamPcMod e()	HRadios4 Array	Returns an object reference to the HRadios4Array object associated with the camera dialogs 'Photon Counting Mode' radiobutton group

		nd	associated with the camera dialogs 'Up' pushbutton
Dood only managery	mIICom Cotum Como	HCommo	(Small up arrow)
Read only property	pHComSetupCanc el()	HComma nd	Returns an object reference to the HCommand object associated with the camera setup dialogs 'Cancel' pushbutton
Read only property	pHComSetupOK()	HComma nd	Returns an object reference to the HCommand object associated with the camera setup dialogs 'OK' pushbutton
Read only property	pHDi4CamAbove Threshold()	HDisp4Ar ray	Returns an object reference to the HDisp4Array object associated with the camera dialogs 'Above Threshold' display area
Read only property	pHDi4CamMessag e()	HDisp4Ar ray	Returns an object reference to the HDisp4Array object associated with the camera dialogs 'Message' display area
Read only property	pHDisSetupCamer aInfo()	HDisp	Returns an object reference to the HDisp object associated with the camera setup dialogs 'Camera Info' display area
Read only property	pHDisSetupScanA rea()	HDisp	Returns an object reference to the HDisp object associated with the camera setup dialogs 'Scan Area' display area
Read only property	pHEd4CamNrExp osures()	HEditNu mber4Arr ay	Returns an object reference to the HEditNumber4Array object associated with the camera dialogs 'Number of Exposures' editbox
Read only property	pHEd4CamNrTrig ger()	HEditNu mber4Arr ay	Returns an object reference to the HEditNumber4Array object associated with the camera dialogs 'Number of Streak Trigger' editbox
Read only property	pHEd4CamThresh old()	HEditNu mber4Arr ay	Returns an object reference to the HEditNumber4Array object associated with the camera dialogs 'Threshold' editbox
Read only property	pHEn4CamExposu re()	HEntry4A rray	Returns an object reference to the HEntry4Array object associated with the camera dialogs 'Exposure Time' entrybox
Read only property	pHFr4CamAction(HFrame4 Array	Returns an object reference to the HFrame4Array object associated with the camera dialogs 'Action' frame
Read only property	pHFr4CamExposu reTime()	HFrame4 Array	Returns an object reference to the HFrame4Array object associated with the camera dialogs 'Exposure Time' frame
Read only property	pHFr4CamIntegrat ion()	HFrame4 Array	Returns an object reference to the HFrame4Array object associated with the camera dialogs 'Integration' frame
Read only property	pHFr4CamPhoton Counting()	HFrame4 Array	Returns an object reference to the HFrame4Array object associated with the camera dialogs 'Photon Counting' frame
Read only property	pHFr4CamRTBS()	HFrame4 Array	Returns an object reference to the HFrame4Array object associated with the camera dialogs 'Real Time Backsub' frame
Read only property	pHPr4CamPercent ()	HProgress 4Array	Returns an object reference to the HProgress4Array object associated with the camera dialogs 'Percent' progress bar
Read only property	pHRa4CamPcMod e()	HRadios4 Array	Returns an object reference to the HRadios4Array object associated with the camera dialogs 'Photon Counting Mode' radiobutton group
Read only property	pHRadSetupBinni ng()	HRadios	Returns an object reference to the HRadios object associated with the camera setup dialogs 'Binning' radiobutton group
Read only property	pHRadSetupSubty pe()	HRadios	Returns an object reference to the HRadios object associated with the camera setup dialogs 'Subtype' radiobutton group
Read only property	pHRadSetupTimin gMode()	HRadios	Returns an object reference to the HRadios object associated with the camera setup dialogs 'Timing Mode' radiobutton group
Read only property	pHTabCamAcqMo de()	HTab	Returns an object reference to the HTab object associated with the camera dialogs 'Acquisition mode'

			tab group
Read only property	pHWinCamDlg()	HWindow	Returns an object reference to the HWindow object
read only property	PIT WINCOMDISCO	11 W IIIUUW	associated with the camera dialogs main window
Read only property	pHWinSetupDlg()	HWindow	Returns an object reference to the HWindow object
Transity property	r	-1	associated with the camera setup dialogs main window
Read only property	piDatTypeForAcq	Integer	Returns the data type in ACQUIRE mode
Transfer of the state of the st	uire()	8	
Read only property	piDatTypeForAI()	Integer	Returns the data type in Analog Integration mode
Read only property	piDatTypeForLive	Integer	Returns the data type in LIVE mode
J T T T	()		31
Read only property	piDatTypeForPC()	Integer	Returns the data type in Photon Counting mode
Read only property	psCameraName()	String	Returns the camera name
Read/write property	pfRestoreWindow	Integer	Sets or returns a value which defines whether the
	Pos()		window position, its size and window state is restored
	· ·		when the window is displayed again after it has been
			closed
Read/write property	pfUserIF()	Integer	Sets or returns a value which defines whether the
	-	_	associated window should be shown on screen. A
			window is only displayed under the following condition:
			pfUserIF=TRUE, pfVisible=TRUE,
			pfHideForm=FALSE
Function	psGetStatus()	String	Returns the current camera status string
Sub	pStopAcquisition()		Stops a currently running acquisition
HDCam			
Read only property	pHCh4CamClearF	HCheck4	
	rameBuffer()	Array	
Read only property	pHCh4CamDoRT	HCheck4	
	Backsub()	Array	
Read only property	pHCh4CamStreak	HCheck4	
	Trigger()	Array	
Read only property	pHCo4CamAcquir	HComma	
	e()	nd4Array	
Read only property	pHCo4CamDoPCS	HComma	
	etup()	nd4Array	
Read only property	pHCo4CamFreeze(HComma	
)	nd4Array	
Read only property	pHCo4CamGetBG	HComma	
	Data()	nd4Array	
Read only property	pHCo4CamLive()	HComma	
	-	nd4Array	
Read only property	pHCo4CamSingle	HComma	
	Exposure()	nd4Array	
Read only property	pHCo4CamStop()	HComma	
		nd4Array	
Read only property	pHComCamDown	HComma	
	()	nd	
Read only property	pHComCamUp()	HComma	
	- "	nd	
Read only property	pHComSetupCanc	HComma	
	el()	nd	
Read only property	pHComSetupOK()	HComma	
		nd	
Read only property	pHDi4CamAbove	HDisp4Ar	
	Threshold()	ray	
Read only property	pHDi4CamMessag	HDisp4Ar	
	e()	ray	
Read only property	pHDi4CamStreakT	HDisp4Ar	
	rigger()	ray	
Read only property	pHDisSetupCamer	HDisp	
	aInfo()	•	
•			•

Read only property	pHDisSetupScanA rea()	HDisp
Read only property	pHEd4CamNrExp	HEditNu
Read only property	osures()	mber4Arr
	osures()	
		ay
Read only property	pHEd4CamThresh	HEditNu
	old()	mber4Arr
		ay
Read only property	pHEdnSetupHOffs	HEditNu
Read only property	princuiscuprions	
	()	mber
Read only property	pHEdnSetupHWid	HEditNu
	th()	mber
Read only property	pHEdnSetupTemp	HEditNu
J 1 1 J	erature()	mber
Read only property	pHEdnSetupVOffs	HEditNu
Keau only property	princuisetup v Oris	
	()	mber
Read only property	pHEdnSetupVWid	HEditNu
	th()	mber
Read only property	pHEn4CamExposu	HEntry4A
property	re()	rray
Danid and an in	V	
Read only property	pHEn4CamGain()	HEntry4A
		ггау
Read only property	pHEn4CamOffset(HEntry4A
)	rray
Read only property	pHEntSetupIIGain	HEntry
Read only property	Ť. Ť	THEMILY
	()	
Read only property	pHEntSetupLight	HEntry
	Mode()	
Read only property	pHEntSetupScanS	HEntry
y ppy	peed()	
Dandanlar management		III.
Read only property	pHEntSetupTempe	HEntry
	ratureSwitch()	
Read only property	pHFr4CamAction(HFrame4
)	Array
Read only property	pHFr4CamExposu	HFrame4
Read only property	reTime()	Array
D 1 1	V/	·
Read only property	pHFr4CamGainOf	HFrame4
	fset()	Array
Read only property	pHFr4CamIntegrat	HFrame4
J 1 1 J	ion()	Array
Read only property	pHFr4CamPcMod	HFrame4
read only property	1	
	e()	Array
Read only property	pHFr4CamPhoton	HFrame4
	Counting()	Array
Read only property	pHFr4CamRTBS()	HFrame4
range J F- oberej		Array
Dood only many	mIIEm/Corre Cture a 1-T	
Read only property	pHFr4CamStreakT	HFrame4
	rigger()	Array
Read only property	pHFraSetupSubarr	HFrame
	ay()	
Read only property	pHPr4CamPercent	HProgress
read only property	-	4Array
D 1 1	()	
Read only property	pHRa4CamPcMod	HRadios4
	e()	Array
Read only property	pHRadSetupBinni	HRadios
J 1 'T' J	ng()	
Read only property	pHRadSetupScan	HRadios
Keau only property		TINAUIUS
	Mode()	
Read only property	pHRadSetupTrigge	HRadios
	rMode()	
	rMode()	

Read only property	pHRadSetupTrigge rPolarity()	HRadios	
Read only property	pHRadSetupTrigge rSource()	HRadios	
Read only property	pHTabCamAcqMo de()	HTab	
Read only property	pHWinCamDlg()	HWindow	
Read only property	pHWinSetupDlg()	HWindow	
Read only property	piDatTypeForAcq uire()	Integer	
Read only property	piDatTypeForAI()	Integer	
Read only property	piDatTypeForLive ()	Integer	
Read only property	piDatTypeForPC()	Integer	
Read only property	psCameraName()	String	
Read/write property	pfRestoreWindow Pos()	Integer	
Read/write property	pfStreakOperate()	Integer	
Read/write property	pfStreakOperateD TBE()	Integer	
Read/write property	pfStreakUseDTBE ()	Integer	
Read/write property	pfUserIF()	Integer	
Read/write property	piStreakTriggerMe thod()	Integer	
Read/write property	plHandle()	Long	
Read/write property	plModel()	Long	
Function	pGetStreakRelated CCDCaps(ByRef fCCDCanExtTrig As Integer, ByRef fCCDCanStartStop As Integer, ByRef sExtTrigCCDMeth od As String, ByRef sExtTrigCPUMeth od As String, ByRef sStartStopCCDMet hod As String, ByRef sStartStopCCDMet		
Function	hod As String) psGetStatus()	String	
Sub	pStopAcquisition()	Sumg	

HExternalDevices

Event	DevicesBuilt()		Event which is raised when the streak devices objects have been setup up properly
Event	Message(ByVal sMessage As String)		Event which is raised to inform the user of ongoing operations
Event	TASetupExecuted()		Event which is raised when the TA setup has been executed
Event	TrigSetExecuted()		Event which is raised when the Trigger Setup has been executed
Read only property	pcItem(ByVal Index As Integer)	HExternal Device	Returns a reference to the specified device
Read only property	pfDualTimeBaseE xist()	Integer	Returns a flag which indicates whether a dual time base extender is used as a streak camera option

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Read only property	pfStreakUseDTBE ()	Integer	Tells the camera object that a Dual time base extender is currently used for trigger handshake
Read only property	pHCh4SetupOptio nDelay()	HCheck4 Array	Returns an object reference to the HCheck4Array object associated with the device control setup dialogs 'Use Delay Option' checkbox
Read only property	pHCh4SetupOptio nDelay2()	HCheck4 Array	Returns an object reference to the HCheck4Array object associated with the device control setup dialogs 'Use Delay2 Option' checkbox
Read only property	pHCh4SetupOptio nSpec()	HCheck4 Array	Returns an object reference to the HCheck4Array object associated with the device control setup dialogs 'Use Spectrograph Option' checkbox
Read only property	pHCh4SetupOptio nTD()	HCheck4 Array	Returns an object reference to the HCheck4Array object associated with the device control setup dialogs 'Use Streak Option' checkbox
Read only property	pHChkAutoDelPar ameter00()	HCheck	Returns an object reference to the HCheck object associated with the device control setup dialogs 'Auto Delay parameter 00' checkbox
Read only property	pHChkAutoDelPar ameter01()	HCheck	Returns an object reference to the HCheck object associated with the device control setup dialogs 'Auto Delay parameter 01' checkbox
Read only property	pHChkAutoDelPar ameter02()	HCheck	Returns an object reference to the HCheck object associated with the device control setup dialogs 'Auto Delay parameter 02' checkbox
Read only property	pHChkAutoDelPar ameter03()	HCheck	Returns an object reference to the HCheck object associated with the device control setup dialogs 'Auto Delay parameter 03' checkbox
Read only property	pHChkAutoDelPar ameter04()	HCheck	Returns an object reference to the HCheck object associated with the device control setup dialogs 'Auto Delay parameter 04' checkbox
Read only property	pHChkAutoDelPar ameter05()	HCheck	Returns an object reference to the HCheck object associated with the device control setup dialogs 'Auto Delay parameter 05' checkbox
Read only property	pHChkAutoDelPar ameter06()	HCheck	Returns an object reference to the HCheck object associated with the device control setup dialogs 'Auto Delay parameter 07' checkbox
Read only property	pHChkAutoDelPar ameter07()	HCheck	Returns an object reference to the HCheck object associated with the device control setup dialogs 'Auto Delay parameter 07' checkbox
Read only property	pHChkAutoDelPar ameter08()	HCheck	Returns an object reference to the HCheck object associated with the device control setup dialogs 'Auto Delay parameter 08' checkbox
Read only property	pHChkAutoDelPar ameter09()	HCheck	Returns an object reference to the HCheck object associated with the device control setup dialogs 'Auto Delay parameter 09' checkbox
Read only property	pHChkAutoDelPar ameter10()	HCheck	Returns an object reference to the HCheck object associated with the device control setup dialogs 'Auto Delay parameter 10' checkbox
Read only property	pHChkAutoDelPar ameter11()	HCheck	Returns an object reference to the HCheck object associated with the device control setup dialogs 'Auto Delay parameter 11' checkbox
Read only property	pHChkAutoDelPar ameter12()	HCheck	Returns an object reference to the HCheck object associated with the device control setup dialogs 'Auto Delay parameter 12' checkbox
Read only property	pHChkAutoDelPar ameter13()	HCheck	Returns an object reference to the HCheck object associated with the device control setup dialogs 'Auto Delay parameter 13' checkbox
Read only property	pHChkAutoDelPar ameter14()	HCheck	Returns an object reference to the HCheck object associated with the device control setup dialogs 'Auto Delay parameter 14' checkbox
Read only property	pHChkAutoDelPar ameter15()	HCheck	Returns an object reference to the HCheck object associated with the device control setup dialogs 'Auto

meter16() Read only property pHChkAutoDelPar ameter 17() PHChkAutoDelPar ameter 17() PHChkAutoDelPar ameter 18() PHChkAutoDelPar ameter 18() PHChkAutoDelPar ameter 18() PHChkAutoDelPar ameter 18() PHChkAutoDelPar ameter 19() PHChkAutoDelPar ameter 20() PHChkAutoDelPar				Delay parameter 15' checkbox
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associated with the device control setup dialogs 'Auto Delay parameter 28' checkbox Read only property PHChkAutoDelPar ameter29() Read only property PHChkOptionsAut oDelay2Delay() Read only property PHChkOptionsAut oMCP() Returns an object reference to the HCheck object associated with the device control setup dialogs 'Auto Delay Delay' checkbox Returns an object reference to the HCheck object associated with the device control setup dialogs 'Auto Delay Delay' checkbox Returns an object reference to the HCheck object associated with the device control setup dialogs 'Auto MCP' checkbox Returns an object reference to the HCheck object associated with the device control setup dialogs 'Auto Streak Delay' checkbox Returns an object reference to the HCheck object associated with the device control setup dialogs 'Auto Streak Delay' checkbox Returns an object reference to the HCheck object associated with the device control setup dialogs 'Auto Streak Shutter() PHChkOptionsAut oStreakShutter() PHChkOptionsAut oStreak Shutter' checkbox Returns an object reference to the HCheck object associated with the device control setup dialogs 'Auto Streak Shutter' checkbox Returns an object reference to the HCheck object associated with the device control setup dialogs 'Auto Streak Shutter' checkbox	Read only property	pHChkAutoDelPar	HCheck	Returns an object reference to the HCheck object
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Read only property pHChkOptionsAut oDelay2Delay() Read only property pHChkOptionsAut oDelay2Delay() Read only property pHChkOptionsAut oDelayDelay() Read only property pHChkOptionsAut oDelayDelay() Read only property pHChkOptionsAut oMCP() Read only property pHChkOptionsAut oMcP() Read only property pHChkOptionsAut oStreakDelay() Read only property pHChkOptionsAut oStreakShutter() Read only property pHChkOptionsAut oStreakShutter() Read only property pHChkSetupA653 8Connected() Returns an object reference to the HCheck object associated with the device control setup dialogs 'Auto MCP' checkbox Returns an object reference to the HCheck object associated with the device control setup dialogs 'Auto Streak Delay' checkbox Returns an object reference to the HCheck object associated with the device control setup dialogs 'Auto Streak Shutter' checkbox Returns an object reference to the HCheck object associated with the device control setup dialogs 'Auto Streak Shutter' checkbox Returns an object reference to the HCheck object associated with the device control setup dialogs 'Auto Streak Shutter' checkbox Returns an object reference to the HCheck object associated with the device control setup dialogs 'Auto Streak Shutter' checkbox Returns an object reference to the HCheck object associated with the device control setup dialogs 'Auto Streak Shutter' checkbox	Read only property	*	HCheck	Returns an object reference to the HCheck object
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ODelay2Delay() associated with the device control setup dialogs 'Auto Delay2 Delay' checkbox				Delay parameter 29' checkbox
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Read only property oStreakDelay() Read only property pHChkOptionsAut oStreakDelay() Read only property pHChkOptionsAut oStreak Delay' checkbox Read only property pHChkOptionsAut oStreakShutter() Returns an object reference to the HCheck object associated with the device control setup dialogs 'Auto Streak Shutter' checkbox Read only property pHChkSetupA653 8Connected() Returns an object reference to the HCheck object associated with the device control setup dialogs 'A6538		oMCP()		
oStreakDelay() Read only property PHChkOptionsAut oStreakShutter() Read only property PHChkSetupA653 Returns an object reference to the HCheck object associated with the device control setup dialogs 'A6538				
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oStreakShutter() Read only property PHChkSetupA653 8Connected() associated with the device control setup dialogs 'Auto Streak Shutter' checkbox Returns an object reference to the HCheck object associated with the device control setup dialogs 'A6538	Read only property	pHChkOptionsAut	HCheck	Returns an object reference to the HCheck object
Read only property PHChkSetupA653 BConnected() Streak Shutter' checkbox Returns an object reference to the HCheck object associated with the device control setup dialogs 'A6538	·			
8Connected() associated with the device control setup dialogs 'A6538				
8Connected() associated with the device control setup dialogs 'A6538	Read only property	pHChkSetupA653	HCheck	Returns an object reference to the HCheck object
	·			associated with the device control setup dialogs 'A6538
Connected To Status Port' checkbox				Connected To Status Port' checkbox

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Read only property	pHChkSetupCount erBoardInstalled()	HCheck	Returns an object reference to the HCheck object associated with the device control setup dialogs 'Dt2819 Installed' checkbox
Read only property	pHChkSetupGPIB ConnectedToDEL AY()	HCheck	Returns an object reference to the HCheck object associated with the device control setup dialogs 'GP-IB connected To Delay' checkbox
Read only property	pHChkSetupGPIB ConnectedToDEL AY2()	HCheck	Returns an object reference to the HCheck object associated with the device control setup dialogs 'GP-IB connected To Delay2' checkbox
Read only property	pHChkSetupGPIB ConnectedToSPEC	HCheck	Returns an object reference to the HCheck object associated with the device control setup dialogs 'GP-IB connected To Spectrograph' checkbox
Read only property	pHChkSetupGPIB ConnectedToTD()	HCheck	Returns an object reference to the HCheck object associated with the device control setup dialogs 'GP-IB connected To Streak Camera' checkbox
Read only property	pHChkSetupGPIBI nstalled()	HCheck	Returns an object reference to the HCheck object associated with the device control setup dialogs 'GP-IB installed' checkbox
Read only property	pHChkSetupTDSta tusCableConnected ()	HCheck	Returns an object reference to the HCheck object associated with the device control setup dialogs 'Status Cable Connected To Streak Camera' checkbox
Read only property	pHChkSetupUseD eviceDELAY()	HCheck	Returns an object reference to the HCheck object associated with the device control setup dialogs 'Use Delaybox' checkbox
Read only property	pHChkSetupUseD eviceDELAY2()	HCheck	Returns an object reference to the HCheck object associated with the device control setup dialogs 'Use Delaybox2' checkbox
Read only property	pHChkSetupUseD eviceSPEC()	HCheck	Returns an object reference to the HCheck object associated with the device control setup dialogs 'Use Spectrograph' checkbox
Read only property	pHChkSetupUseD eviceTD()	HCheck	Returns an object reference to the HCheck object associated with the device control setup dialogs 'Use Streakcamera' checkbox
Read only property	pHChkTrigSetCon nectMonitorOut()	HCheck	Returns an object reference to the HCheck object associated with the trigger setup dialogs 'Connect Monitor Out' checkbox
Read only property	pHChkTrigSetCon nectResetIn()	HCheck	Returns an object reference to the HCheck object associated with the trigger setup dialogs 'Conect Reset In' checkbox
Read only property	pHChkTrigSetUse DTBE()	HCheck	Returns an object reference to the HCheck object associated with the Trigger setup dialogs 'Use dual time base extender' checkbox
Read only property	pHComAutoDelCa ncel()	HComma nd	Returns an object reference to the HCommand object associated with the auto delay setup dialogs 'Cancel' command button
Read only property	pHComAutoDelO K()	HComma nd	Returns an object reference to the HCommand object associated with the auto delay setup dialogs 'OK' command button
Read only property	pHComAutoDelRe setStoredValues()	HComma nd	Returns an object reference to the HCommand object associated with the auto delay setup dialogs 'Reset Stored Values' command button
Read only property	pHComOptionsOK ()	HComma nd	Returns an object reference to the HCommand object associated with the device control setup dialogs 'Cancel' command button
Read only property	pHComOptionsSet upAutoDelay()	HComma nd	Returns an object reference to the HCommand object associated with the device control setup dialogs 'Setup Auto Delay' command button
Read only property	pHComOptionsSet upAutoDelay2()	HComma nd	Returns an object reference to the HCommand object associated with the device control setup dialogs 'Setup Auto Delay2' command button
Read only property	pHComProcAbort(HComma	Returns an object reference to the HCommand object

		nd	associated with the device control processing dialogs
	,	iid	'abort' command button
Read only property	pHComSetupCanc el()	HComma nd	Returns an object reference to the HCheck object associated with the device control setup dialogs 'Cancel' checkbox
Read only property	pHComSetupSetup ()	HComma nd	Returns an object reference to the HCommand object associated with the device control setup dialogs 'Setup' command button
Read only property	pHComTrigSetCan cel()	HComma nd	Returns an object reference to the HCommand object associated with the trigger setup dialogs 'Cancel' command button
Read only property	pHComTrigSetOK ()	HComma nd	Returns an object reference to the HCommand object associated with the trigger setup dialogs 'OK' command button
Read only property	pHComTrigSetSho wTiming()	HComma nd	Returns an object reference to the HCommand object associated with the trigger setup dialogs 'Show Timing' command button
Read only property	pHDisAutoDelIntr oduction()	HDisp	Returns an object reference to the HDisp object associated with the Auto delay dialogs 'Introduction' display area
Read only property	pHDisProcMessag e()	HDisp	Returns an object reference to the HDisp object associated with the Processing dialogs 'Message' display area
Read only property	pHDisTrigSetCCD Mode()	HDisp	Returns an object reference to the HDisp object associated with the Trigger Setup dialogs 'CCD mode' display area
Read only property	pHDisTrigSetCom puterExposureCont rol()	HDisp	Returns an object reference to the HDisp object associated with the Trigger Setup dialogs 'Computer exposure control' display area
Read only property	pHDisTrigSetCom puterGPIB()	HDisp	Returns an object reference to the HDisp object associated with the Trigger Setup dialogs 'Computer GPIB' display area
Read only property	pHDisTrigSetCom puterMonitorIn()	HDisp	Returns an object reference to the HDisp object associated with the Trigger Setup dialogs 'Computer Monitor In' display area
Read only property	pHDisTrigSetCom puterResetOut()	HDisp	Returns an object reference to the HDisp object associated with the Trigger Setup dialogs 'Reset Out' display area
Read only property	pHDisTrigSetConf iguration()	HDisp	Returns an object reference to the HDisp object associated with the Trigger Setup dialogs 'Configuation' display area
Read only property	pHDisTrigSetDete ctMonitorByGPIB(HDisp	Returns an object reference to the HDisp object associated with the Trigger Setup dialogs 'Detect Monitor By GPIB' display area
Read only property	pHDisTrigSetDTB E()	HDisp	Returns an object reference to the HDisp object associated with the Trigger Setup dialogs 'Dual time base extender' display area
Read only property	pHDisTrigSetHMo nitorOut()	HDisp	Returns an object reference to the HDisp object associated with the Trigger Setup dialogs 'H-Monitor Out' display area
Read only property	pHDisTrigSetHRe setIn()	HDisp	Returns an object reference to the HDisp object associated with the Trigger Setup dialogs 'H-Reset In' display area
Read only property	pHDisTrigSetHTri gIn()	HDisp	Returns an object reference to the HDisp object associated with the Trigger Setup dialogs 'H-Trigger In' display area
Read only property	pHDisTrigSetMain UnitType()	HDisp	Returns an object reference to the HDisp object associated with the Trigger Setup dialogs 'Main Unit Type' display area
Read only property	pHDisTrigSetPlugi nMode()	HDisp	Returns an object reference to the HDisp object associated with the Trigger Setup dialogs 'Plugin Mode'

			display area
Read only property	pHDisTrigSetPlugi nType()	HDisp	Returns an object reference to the HDisp object associated with the Trigger Setup dialogs 'Plugin Type'
	птурс()		display area
Read only property	pHDisTrigSetRese	HDisp	Returns an object reference to the HDisp object
	tByGPIB()		associated with the Trigger Setup dialogs 'Reset by GPIB' display area
Read only property	pHDisTrigSetStrea	HDisp	Returns an object reference to the HDisp object
	kCameraGPIB()		associated with the Trigger Setup dialogs 'Streak camera GPIB' display area
Read only property	pHDisTrigSetTrigI	HDisp	Returns an object reference to the HDisp object
	n()	-	associated with the Trigger Setup dialogs 'Trigger In' display area
Read only property	pHDisTrigSetVMo	HDisp	Returns an object reference to the HDisp object
	nitorOut()		associated with the Trigger Setup dialogs 'V-Monitor Out' display area
Read only property	pHDisTrigSetVRe	HDisp	Returns an object reference to the HDisp object
	setIn()		associated with the Trigger Setup dialogs 'V-Reset In' display area
Read only property	pHDisTrigSetVTri	HDisp	Returns an object reference to the HDisp object
	gIn()		associated with the Trigger Setup dialogs 'V-Trigger In' display area
Read only property	pHEdnSetupCount	HEditNu	Returns an object reference to the HEditNumber object
	erBoardIObase()	mber	associated with the device control setup dialogs 'DT 2819 IO Base' editbox
Read only property	pHEdnSetupGPIB	HEditNu	Returns an object reference to the HEditNumber object
	BaseDELAY()	mber	associated with the device control setup dialogs 'Delaybox GP-IB address' editbox
Read only property	pHEdnSetupGPIB	HEditNu	Returns an object reference to the HEditNumber object
	BaseDELAY2()	mber	associated with the device control setup dialogs 'Delaybox2 GP-IB address' editbox
Read only property	pHEdnSetupGPIB	HEditNu	Returns an object reference to the HEditNumber object
	BaseSPEC()	mber	associated with the device control setup dialogs 'Delaybox Spectrograph address' editbox
Read only property	pHEdnSetupGPIB	HEditNu	Returns an object reference to the HEditNumber object
J I I I	BaseTD()	mber	associated with the device control setup dialogs
D 1 1	HE L.C. COIDI	HE CAL	'Streakcamera GP-IB address' editbox
Read only property	pHEdnSetupGPIBI OBase()	mber	Returns an object reference to the HEditNumber object associated with the device control setup dialogs 'GP-IB
		moer	board IO address' editbox
Read only property	pHEdnTrigSetExp	HEditNu	
Read only property	osure() pHEdnTrigSetPost	mber HEditNu	Returns an object reference to the HEditNumber object
reductionly property	TriggerTime()	mber	associated with the Trigger setup dialogs 'Post Trigger
Read only property	pHEdnTrigSetRese	HEditNu	Time' editbox Returns an object reference to the HEditNumber object
read only property	tDelay()	mber	associated with the Trigger setup dialogs 'Reset Delay'
	•		editbox
Read only property	pHEntSetupDevice	HEntry	Returns an object reference to the HEntry object
	DELAY()		associated with the device control setup dialogs 'Delaybox device' entrybox
Read only property	pHEntSetupDevice	HEntry	Returns an object reference to the HEntry object
	DELAY2()		associated with the device control setup dialogs 'Delaybox2 device' entrybox
Read only property	pHEntSetupDevice	HEntry	Returns an object reference to the HEntry object
	SPEC()		associated with the device control setup dialogs 'Spectrograph device' entrybox
Read only property	pHEntSetupDevice	HEntry	Returns an object reference to the HEntry object
	TD()		associated with the device control setup dialogs
D 1 . 1	-HE-4G / Pl :	III :	'Streakcamera device' entrybox
Read only property	pHEntSetupPlugin	HEntry	Returns an object reference to the HEntry object

		T	
	DELAY()		associated with the device control setup dialogs 'Delaybox Plugin' entrybox
Read only property	pHEntSetupPlugin DELAY2()	HEntry	Returns an object reference to the HEntry object associated with the device control setup dialogs 'Delaybox2 Plugin' entrybox
Read only property	pHEntSetupPlugin SPEC()	HEntry	Returns an object reference to the HEntry object associated with the device control setup dialogs 'Spectrograph Plugin' entrybox
Read only property	pHEntSetupPlugin TD()	HEntry	Returns an object reference to the HEntry object associated with the device control setup dialogs 'Streakcamera Plugin' entrybox
Read only property	pHFraSetupExtern alDevices()	HFrame	Returns an object reference to the HFrame object associated with the device control setup dialogs 'External Devices' frame
Read only property	pHFraSetupIFSetu p()	HFrame	Returns an object reference to the HFrame object associated with the device control setup dialogs 'IF Setup' frame
Read only property	pHProProcProgres s()	HProgress	Returns an object reference to the HProgress object associated with the Processing dialogs 'Progress' bar
Read only property	pHRadSetupCount erBoardType()	HRadios	Returns an object reference to the HRadios object associated with the device control dialogs 'Counter board type' radiobutton group
Read only property	pHRadTrigSetTrig gerMethod()	HRadios	Returns an object reference to the HRadios object associated with the device control dialogs 'Trigger method' radiobutton group
Read only property	pHWinAutoDelDl g()	HWindow	Returns an object reference to the HWindow object associated with the Auto delay setup dialogs main window
Read only property	pHWinOptionsDlg ()	HWindow	Returns an object reference to the HWindow object associated with the options dialogs main window
Read only property	pHWinProcDlg()	HWindow	
Read only property	pHWinSetupDlg()	HWindow	Returns an object reference to the HWindow object associated with the device control setup dialogs main window
Read only property	pHWinTimingDia gram()	HWindow	Returns an object reference to the HWindow object associated with the Timing dialogs timing diagram window
Read only property	pHWinTimingDlg(HWindow	Returns an object reference to the HWindow object associated with the Timing dialogs main window
Read only property	pHWinTrigSetDlg(HWindow	Returns an object reference to the HWindow object associated with the Trigger setup dialogs main window
Read only property	piA6538Connected ()	Integer	Returns a flag which defines whether an A6538 is connected to the trigger status adapter
Read only property	piCounterBoardIns talled()	Integer	Returns a flag which defines whether a Dt2819 board is installed
Read only property	piCounterBoardIO Base()	Integer	Returns the DT2819 board IO base adress
Read only property	piGPIBInstalled()	Integer	Returns a flag which defines whether a GP-IB board is installed in the system
Read only property	piGPIBIOBase()	Integer	Returns the GP-IB board IO base address
Read only property	piMaxIndex()	Integer	Returns the maximum index for pcItem
Read only property	piMinIndex()	Integer	Returns the minimum index for pcItem
Read only property	piPostTriggerTime ()	Integer	Returns the Post Trigger Time
Read only property	piStreakTriggerMe thod()	Integer	Returns the currently selected streak trigger method
Read only property	piTDStatusCableC	Integer	Returns a flag which defines whether a status cable is
	onnected()		connected to the streak camera
Read only property	plTriggerDelay()	Long	Returns the trigger delay
Read/write property	pfAutoMCP()	Integer	Returns a flag which defines whether Auto MCP is

			active
Read/write property	pfAutoStreakShutt er()	Integer	Returns a flag which defines whether Auto Streak Shutter is active
Read/write property	pfDoStatusRegular ly()	Integer	Sets or returns a flag which defines whether the status should inquired regularly (Typically once per second)
Read/write property	pfRestoreWindow Pos()	Integer	Sets or returns a value which defines whether the window position, its size and window state is restored when the window is displayed again after it has been closed
Read/write property	pfUserIF()	Integer	Sets or returns a value which defines whether the associated window should be shown on screen. A window is only displayed under the following condition: pfUserIF=TRUE, pfVisible=TRUE, pfHideForm=FALSE
Function	pDoGetStatus()	Integer	Executes status read
Function	plIEEE488_Attach Device(ByVal iBoardNo As Long, ByVal iIEEE488Address As Long, ByVal lpszOutEOS As String, ByVal lpszInEOS As String, ByVal fDeviceIsSlow As Long, ByVal uiTimeout As Long)	Long	Low Level IEEE 488 function: Attaches a device
Function	plIEEE488_Close(ByVal iBoardNo As Long)	Long	Low Level IEEE 488 function: Closes the GP-IB session
Function	plIEEE488_Detach Device(ByVal lDeviceHandle As Long)	Long	Low Level IEEE 488 function: Detaches a device
Function	plIEEE488_IsSRQ Pending(ByVal iBoardNo As Long)	Long	Low Level IEEE 488 function: Inquires pending SRQs
Function	plIEEE488_Open(ByVal iIOAddress As Long, ByVal iMyIEEE488Addr ess As Long, ByVal fController As Long)	Long	Low Level IEEE 488 function: Opens a GP-IB session
Function	plIEEE488_Paralle lPoll(ByVal lDeviceHandle As Long, ByVal lpszPollStatus As String)	Long	Low Level IEEE 488 function: Executes a parallel poll
Function	plIEEE488_ReadB inary(ByVal lDeviceHandle As Long, bByte()	Byte, ByVal iCount As Long) As Long	Low Level IEEE 488 function: Reads GP-IB data binary
Function	plIEEE488_ReadS tring(ByVal lDeviceHandle As	Long	Low Level IEEE 488 function: Reads GP-IB data as string

		T	
	Long, lpszString		
	As String, ByVal		
	iCount As Long)		
Function	plIEEE488_SendB	Long	Low Level IEEE 488 function: Sends GB-IB data binary
	inary(ByVal		
	lDeviceHandle As		
	Long, lpData As		
	Byte, ByVal		
	iCount As Long,		
	ByVal fEOI As		
	Long)		
Francisco		T	Low Level IEEE 488 function: Sends GB-IB data as
Function	plIEEE488_SendSt	Long	
	ring(ByVal		string
	lDeviceHandle As		
	Long, ByVal		
	lpszString As		
	String)		
Function	plIEEE488_Serial	Long	Low Level IEEE 488 function: Executes serial poll
	Poll(ByVal		
	lDeviceHandle As		
	Long, ByVal		
	lpszPollStatus As		
	String)		
Function	plIEEE488_SetGot	Long	Low Level IEEE 488 function: Sends Goto Local
1 unction	oLocal(ByVal	Long	command
	lDeviceHandle As		Command
T .:	Long)	T	T T TEET 400 C 2 G 1 G 2 G 1 G
Function	plIEEE488_SetRe	Long	Low Level IEEE 488 function: Sends Set remote enable
	moteEnable(ByVal		command
	iBoardNo As		
	Long)		
Function	plIEEE488_TA_Id	Long	Returns the board handle in the case the HPDTA has
	entGPIBBoard()		already opened a GB-IB session
Function	psGetStatus()	String	Returns the current devices status string
Function	rfIsDualTimeBase		Returns True if the specified plugin name is a dual time
	Extender(ByVal s		base extender
	As String)		
Function	rTA_IdentOptionN	Integer	Returns the name of the specified option
T unit tron	ame(ByVal	integer	Treesing the name of the specified option
	iDeviceType As		
	Integer, ByVal		
	iOptionNo As		
	Integer, ByRef		
	sOption As String,		
	ByVal iCount As		
	Integer)	_	
Function	rTA_IdentOptionN	Integer	Returns the number of available options
	o(ByVal		
	iDeviceType As		
	Integer, ByRef		
	iOptionNo As		
	Integer)		
Function	rTA_IdentParEntry	Integer	Returns the name of the specified parameter
	Name(ByVal] -	
	iDeviceType As		
	Integer, ByVal		
	iParameter As		
	Integer, ByVal		
	iEntry As Integer,		
	ByRef sEntry As		
	String, ByVal		
	Sumg, Dy vai	<u> </u>	

Ĭ.	iCount As Integer)		
Function	rTA_IdentParEntry	Integer	Returns the number of available entries
1 uncuon	No(ByVal	mugu	rectains the number of available chales
	iDeviceType As		
	Integer, ByVal		
	iParameter As		
	Integer, ByRef		
	iEntryNo As		
	Integer)		
Function	rTA_IdentPluginN	Integer	Returns the name of the specified plugin
1 difetion	ame(ByVal	miegei	Returns the name of the specified plugin
	iDeviceType As		
	Integer, ByVal		
	iPluginNo As		
	Integer, ByRef		
	sPlugin As String,		
	ByVal iCount As		
	Integer)		
Function	rTA_IdentPluginN	Integer	Returns the number of plugins
1 diletion	o(ByVal	integer	recurs the number of plugins
	iDeviceType As		
	Integer, ByRef		
	iPluginNo As		
	Integer)		
Function	rTA_IdentProperty	Integer	Returns a property value of the specified device
1 unction	(ByVal	incgei	results a property same of the specifica device
	iDeviceType As		
	Integer, ByVal		
	iPropertyID As		
	Integer, varReturn		
	As Variant)		
Function	rTA_Setup()	Integer	Executes TA setup
Function	rTA_SetupDevice(Integer	Executes Setup Device
	ByVal		1
	iDeviceType As		
	Integer, ByVal		
	iDeviceNo As		
		1	
	Integer)		
Function	Integer) rTA_SetupOption(Integer	Executes Setup Option
Function	rTA_SetupOption(ByVal	Integer	Executes Setup Option
Function	rTA_SetupOption(Integer	Executes Setup Option
Function	rTA_SetupOption(ByVal	Integer	Executes Setup Option
Function	rTA_SetupOption(ByVal iDeviceType As	Integer	Executes Setup Option
Function	rTA_SetupOption(ByVal iDeviceType As Integer, ByVal iOptionNo As Integer, ByVal	Integer	Executes Setup Option
Function	rTA_SetupOption(ByVal iDeviceType As Integer, ByVal iOptionNo As	Integer	Executes Setup Option
Function	rTA_SetupOption(ByVal iDeviceType As Integer, ByVal iOptionNo As Integer, ByVal fInstalled As Integer)	Integer	Executes Setup Option
Function Function	rTA_SetupOption(ByVal iDeviceType As Integer, ByVal iOptionNo As Integer, ByVal fInstalled As Integer) rTA_SetupPlugin(Integer	Executes Setup Option Executes Setup Plugin
	rTA_SetupOption(ByVal iDeviceType As Integer, ByVal iOptionNo As Integer, ByVal fInstalled As Integer) rTA_SetupPlugin(ByVal	J	
	rTA_SetupOption(ByVal iDeviceType As Integer, ByVal iOptionNo As Integer, ByVal fInstalled As Integer) rTA_SetupPlugin(ByVal iDeviceType As	J	
	rTA_SetupOption(ByVal iDeviceType As Integer, ByVal iOptionNo As Integer, ByVal fInstalled As Integer) rTA_SetupPlugin(ByVal iDeviceType As Integer, ByVal	J	
	rTA_SetupOption(ByVal iDeviceType As Integer, ByVal iOptionNo As Integer, ByVal fInstalled As Integer) rTA_SetupPlugin(ByVal iDeviceType As Integer, ByVal iPluginNo As	J	
Function	rTA_SetupOption(ByVal iDeviceType As Integer, ByVal iOptionNo As Integer, ByVal fInstalled As Integer) rTA_SetupPlugin(ByVal iDeviceType As Integer, ByVal iPluginNo As Integer)	Integer	
Function Function	rTA_SetupOption(ByVal iDeviceType As Integer, ByVal iOptionNo As Integer, ByVal fInstalled As Integer) rTA_SetupPlugin(ByVal iDeviceType As Integer, ByVal iPluginNo As Integer) rTA_TrigSet()	J	Executes Setup Plugin
Function Function Sub	rTA_SetupOption(ByVal iDeviceType As Integer, ByVal iOptionNo As Integer, ByVal fInstalled As Integer) rTA_SetupPlugin(ByVal iDeviceType As Integer, ByVal iPluginNo As Integer) rTA_TrigSet() pEmergencyOff()	Integer	Executes Setup Plugin executes emergency off
Function Function	rTA_SetupOption(ByVal iDeviceType As Integer, ByVal iOptionNo As Integer, ByVal fInstalled As Integer) rTA_SetupPlugin(ByVal iDeviceType As Integer, ByVal iPluginNo As Integer) rTA_TrigSet() pEmergencyOff() pSetCCDCaps(fC	Integer	Executes Setup Plugin
Function Function Sub	rTA_SetupOption(ByVal iDeviceType As Integer, ByVal iOptionNo As Integer, ByVal fInstalled As Integer) rTA_SetupPlugin(ByVal iDeviceType As Integer, ByVal iPluginNo As Integer) rTA_TrigSet() pEmergencyOff() pSetCCDCaps(fC CDCanExtTrig As	Integer	Executes Setup Plugin executes emergency off
Function Function Sub	rTA_SetupOption(ByVal iDeviceType As Integer, ByVal iOptionNo As Integer, ByVal fInstalled As Integer) rTA_SetupPlugin(ByVal iDeviceType As Integer, ByVal iPluginNo As Integer) rTA_TrigSet() pEmergencyOff() pSetCCDCaps(fC CDCanExtTrig As Integer,	Integer	Executes Setup Plugin executes emergency off
Function Function Sub	rTA_SetupOption(ByVal iDeviceType As Integer, ByVal iOptionNo As Integer, ByVal fInstalled As Integer) rTA_SetupPlugin(ByVal iDeviceType As Integer, ByVal iPluginNo As Integer) rTA_TrigSet() pEmergencyOff() pSetCCDCaps(fC CDCanExtTrig As Integer, fCCDCanStartStop	Integer	Executes Setup Plugin executes emergency off
Function Function Sub	rTA_SetupOption(ByVal iDeviceType As Integer, ByVal iOptionNo As Integer, ByVal fInstalled As Integer) rTA_SetupPlugin(ByVal iDeviceType As Integer, ByVal iPluginNo As Integer) rTA_TrigSet() pEmergencyOff() pSetCCDCaps(fC CDCanExtTrig As Integer, fCCDCanStartStop As Integer,	Integer	Executes Setup Plugin executes emergency off
Function Function Sub	rTA_SetupOption(ByVal iDeviceType As Integer, ByVal iOptionNo As Integer, ByVal fInstalled As Integer) rTA_SetupPlugin(ByVal iDeviceType As Integer, ByVal iPluginNo As Integer) rTA_TrigSet() pEmergencyOff() pSetCCDCaps(fC CDCanExtTrig As Integer, fCCDCanStartStop	Integer	Executes Setup Plugin executes emergency off

	· · · · · · · · · · · · · · · · · · ·	
	sExtTrigCPUMeth	
	od As String,	
	sStartStopCCDMet	
	hod As String,	
	sStartStopCPUMet	
	hod As String)	
Sub	pShowDialogs()	Shows all external devices status/control dialogs
Sub	pTA_HandleSRQs	Gives the device DLLs the opportunity to handle SRQs
	0	(if any)
Sub	rGetDeviceList(By	Gets a list of the supported devices
	Val iDT As	
	Integer, HEntry As	
	HEntry)	
Sub	rGetDualTimeBase	Gets informations about the dual time base extender (if
	Info(ByRef	any)
	fDualTimeBaseExi	
	st As String,	
	ByRef	
	sDualTimeBase As	
	String, ByRef	
	sDualTimeBaseRa	
	nge As String)	
Sub	rTA_SetupCloseSe	Executes device close session
	ssion()	

HDevPar

Event	ChangeEnabled()		Event which is raised when the pfEnabled property changes
Event	ChangeLimits()		Event which is raised when either pvMinValue or pvMaxValue changes
Event	ChangeType()		Event which is raised when the piDevParType property changes
Event	ChangeValue(ByV al dbOldValue As Double, ByVal fFromDevice As Integer)		Event which is raised when the pfValue property changes
Event	ChangeVisible()		Event which is raised when the pfVisible property changes
Read only property	pcParent()	Object	Returns a reference to the parent object of this object. If this reference is Nothing this object is the topmost object within the object hierarchy (normally the HWindow object of the associated dialog)
Read only property	pdbStep()	Double	Returns a value which defines the step width of two neighbouring values. If it is zero all values between pvMinValue and pvMaxValue are possible
Read only property	pfControlAvail()	Integer	Returns a value which specifies whether the object can be controlled by the client programmer (This is dependent on the pfVisible and pfEnabled properties and those of its parent)
Read only property	pfControlAvailable ()	Integer	Returns a value which defines whether the associated parameter on the external device can be controlled by the software
Read only property	pfEnabled()	Integer	Returns a value which specifies whether the object is enabled
Read only property	pfKnownParamete r()	Integer	Returns a value which defines whether the parameter is a known one. The values for allknown parameters are described in the enumerations StreakParameter, SpectrographParameter and DelayParameter
Read only property	pfStatusAvailable(Integer	Returns a value which defines whether status information of the associated parameter can be provided by the external device

Read only property	pfVisible()	Integer	Returns a value which specifies whether the object is visible
Read only property	piDevParType()	Integer	Returns a value which defines the ParameterType of the parameter. Possible values are described in the enumeration DevParType
Read only property	piMode()	Integer	Returns a value which defines the ParameterMode of the parameter. Possible values are described in the enumeration DevParMode
Read only property	piParameter()	Integer	Returns a value identifying the parameter. Possible values of known parameters are described in the enumerations StreakParameter, SpectrographParameter and DelayParameter
Read only property	psName()	String	Returns the name of the object
Read only property	psParameterName(String	Returns a value defining the parameter name
Read only property	psSetKeyValue(By Val iIndex As Integer)	String	Returns the key value of a specified entry index (Not necessarily the current one)
Read only property	pvMaxValue()	Variant	Maximum value limiting the range for pvValue
Read only property	pvMinValue()	Variant	Minimum value limiting the range for pvValue
Read/write property	piExponent()	Integer	Sets or returns the exponent used to display a value. If this parameter is zero no exponent is diplayed
Read/write property	psKeyValue()	String	Sets or returns the key value of the object never always raising the Change Value event.
Read/write property	pvValue()	Variant	Returns the value of the object
Sub	pRegEvent(ByVal sEvent As String, ByVal fBasicEvent As Integer)		Should not be used by clients! (Registers an event to the error handler)

HExternalDevice

Event	ReleaseParameters		Event which is raised when the streak parameters are
	()		released and built up newly. THe clien program must
			relesase all object references to individual parameters in
			this moment
Read only property	pfControlAvaileabl	Integer	Returns a flag which defines whether Control is available
	e()		for the device
Read only property	pfStatusAvaileable	Integer	Returns a flag which defines whether status information
	()		is available of the device
Read only property	pfStatusOutExist()	Integer	Returns a flag which defines whether the status out
			connector exits for the device (streak cameras only)
Read only property	pfTriggerConnecto	Integer	Returns a flag which defines whether trigger connectors
	rExist()		exits for the device (streak cameras only)
Read only property	pHDevPars()	HDevPars	Returns an object reference to the HDevPars object of
			the device
Read only property	pHWinDevDlg()	HWindow	Returns an object reference to the HWindow object
			associated with the devices dialogs main window
Read only property	piDeviceIndex()	Integer	Returns the current devices index
Read only property	piGPIBBase()	Integer	Returns the GP-IB base address of the device (if
			connected)
Read only property	piGPIBCableConn	Integer	Returns a flag which defines whether the device is
	ected()		connected to the GP-IB board
Read only property	piGPIBCableConn	Integer	Returns a flag which defines whether the device is
	ectionSuccess()		connected to the GP-IB board successfully
Read only property	piNoOfControl()	Integer	Returns the number of controls of the device
Read only property	piNoOfOptions()	Integer	Returns the number of installed options
Read only property	piNoOfUnknownP	Integer	Returns the number of unknown parameters
	ar()		
Read only property	piOptionInstalled(Integer	Returns a flag which defines whether the specified
	ByVal iIndex As		option is installed in the device
	Integer)		

Read only property	piPluginIndex()	Integer	Returns the current plugin index
Read only property	piUseDevice()	Integer	Returns a flag which indicates whether the devce is used
Read only property	psDeviceName()	String	Returns the device name
Read only property	psDevType()	String	Returns a string describing the device type
Read only property	psOptionName(By Val iIndex As Integer)	String	Returns the specified option name
Read only property	psPluginName()	String	Returns the plugin name
Read/write property	pfRestoreWindow Pos()	Integer	Sets or returns a value which defines whether the window position, its size and window state is restored when the window is displayed again after it has been closed
Read/write property	pfUserIF()	Integer	Sets or returns a value which defines whether the associated window should be shown on screen. A window is only displayed under the following condition: pfUserIF=TRUE, pfVisible=TRUE, pfHideForm=FALSE
Function	pfGetParameter(B yVal iParameter As Integer, ByRef dbValue As Double)	Integer	Returns the value of a specified parameter
Function	pfGetParameterBy String(ByVal sParameterName As String, ByRef sValue As String)	Integer	Returns the value of a parameter specified by string
Function	pfParameter2Contr ol(ByVal iParameter As Integer, ByRef iControl As Integer)	Integer	Returns the control index of the specified parameter. If the parameter does not exits the returns value is false
Function	pfParameterName2 Control(ByVal sParameterName As String, ByRef iControl As Integer)	Integer	Returns the control index of parameter specified by name. If the parameter does not exits the returns value is false
Function	pfSetParameter(By Val iParameter As Integer, ByVal dbNewValue As Double)	Integer	Sets the value of a specified parameter
Function	pfSetParameterBy String(ByVal sParameterName As String, ByVal sNewValue As String)	Integer	Sets the value of a parameter specified by string
Function	pfSetParameterTo Maximum(ByVal iParameter As Integer)	Integer	Sets the specified parameter to the maximum value
Function	pfSetParameterTo Minimum(ByVal iParameter As Integer)	Integer	Sets the specified parameter to the minimum value
Function	psGetStatus()	String	Returns the current device status string
HDevPars		·	
Event	Changa Enablad (B	ı	Event which is reject when the offerebled preparty

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ChangeEnabled(B

Event

Event which is raised when the pfEnabled property

	yVal Index As Integer)		changes
Event	ChangeLimits(By Val Index As Integer)		Event which is raised when either pvMinValue or pvMaxValue changes
Event	ChangeType(ByVa 1 Index As Integer)		Event which is raised when the piDevParType property changes
Event	ChangeValue(ByV al Index As Integer, ByVal dbOldValue As Double, ByVal fFromDevice As Integer)		Event which is raised when the pfValue property changes
Event	ChangeVisible(By Val Index As Integer)		Event which is raised when the pfVisible property changes
Read only property	pcItem(ByVal Index As Integer)	HDevPar	Returns an object reference to the specified HDevPar object
Read only property	psName()	String	Returns the name of the object
Read/write property	piNrValidItems()	Integer	Returns a value which specifies the number of valid HDevPar objects. These are numbered from 0 to piNrValidItems-1
HAcq			
Event	CameraIsStarted()		
Event	CameraTemperatur e(ByVal sTemp As String)		Event which is raised when the camera temperature changes
Event	ChangeAcqMode(ByVal iAcqMode As Integer)		Event which is raised when the Acquisiton mode changes
Event	EndAcquisition()		Event which is raised when an acquisition has ended. In the case of an acquisition which consists of several individual images (Live, Analog integratio, photon

individual images (Live, Analog integratio, photon counting) it is only called once at the end of the complete acquisition Event which is raised when an backsub acquisition has Event EndBacksub() ended. In the case of an acquisition which consists of several individual images (Analog integratio, photon counting) it is only called once at the end of the complete acquisition Event Message(ByVal Event which is raised to inform the user of ongoing sMessage As operations String) Event NewLiveImage() Event which is raised when a new image lin live mode is acquired and displayed Event NewPartImage(By Event which is raised when a new part of an image is Val lPartImage As acquired. E.g. a new part image is a newly acquired image which is added to the image in Analog Integration Long) mode Event which is raised before an acquisition starts. In the Event StartAcquisition() case of an acquisition which consists of several individual images (Live, Analog integratio, photon counting) it is only called once at the start of the complete acquisition Event which is raised before a backsub acquisition has Event StartBacksub() been started. In the case of an acquisition which consists of several individual images (Analog integratio, photon counting) it is only called once at the start of the complete acquisition Integer Returns a flag which indicates whether an acquisition is Read only property pfAcqPending()

			currently running
Read only property	pfGrbIs4MType()	Integer	Returns a flag which defines whether the current frame grabber is a 4M type
Read only property	pfOptionAutoBack sub()	Integer	
Read only property	pfProcPending()	Integer	Returns a flag which indicates whether an image processing is currently running
Read only property	pfProcStopped()	Integer	Rreturns a flag which defines that a currently pending processing should be stopped
Read only property	pftDefaultExposur eTime()	Single	Returns the default exposure time when the application starts. In the case the camera cannot set this value precisely the nearest possible value is set
Read only property	pHChkCorrGetRT BSFromCamera()	HCheck	Returns an object reference to the HCheck object associated with the correction setup dialogs 'Get RTBS form Camera' checkbox
Read only property	pHChkCorrSpectS ensitivityCorr()	HCheck	Returns an object reference to the HCheck object associated with the correction setup dialogs 'Spectral Sensitivity Correction' checkbox
Read only property	pHChkCorrSubtrac tWithOpenShutter(HCheck	Returns an object reference to the HCheck object associated with the correction setup dialogs 'Subtract With Open Shutter' checkbox
Read only property	pHChkOpt32BitIn AI()	HCheck	
Read only property	pHChkOptAutoBa cksub()	HCheck	Returns an object reference to the HCheck object associated with the options dialogs 'Auto Backsub' checkbox
Read only property	pHChkOptAutoCu rvature()	HCheck	Returns an object reference to the HCheck object associated with the options dialogs 'Auto Curvature' checkbox
Read only property	pHChkOptAutoSh ading()	HCheck	Returns an object reference to the HCheck object associated with the options dialogs 'Auto Shading' checkbox
Read only property	pHChkOptClipZer o()	HCheck	Returns an object reference to the HCheck object associated with the options dialogs Clip To Zero 'During backsub' checkbox
Read only property	pHChkOptDefectC orrection()	HCheck	
Read only property	pHChkOptSlowDi splay()	HCheck	
Read only property	pHChkOptWriteD PCFile()	HCheck	Returns an object reference to the HCheck object associated with the options dialogs 'Write DPC file' checkbox
Read only property	pHComBackAbort ()	HComma nd	Returns an object reference to the HCommand object associated with the backsub dialogs 'Abort' pushbutton
Read only property	pHComBackStop()	HComma nd	Returns an object reference to the HCommand object associated with the backsub dialogs 'Stop' pushbutton
Read only property	pHComCorrCancel ()	HComma nd	Returns an object reference to the HCommand object associated with the Correction Setup dialogs 'Cancel' pushbutton
Read only property	pHComCorrGetAc quireModeFile()	HComma nd	Returns an object reference to the HCommand object associated with the Correction Setup dialogs 'Get Acquire Mode Backsub File' pushbutton
Read only property	pHComCorrGetAn alogIntegrationFile ()	HComma nd	Returns an object reference to the HCommand object associated with the Correction Setup dialogs 'Get Analog Integration Mode Backsub File' pushbutton
Read only property	pHComCorrGetLa mpFile()	HComma nd	Returns an object reference to the HCommand object associated with the Correction Setup dialogs 'Get Lamp File' pushbutton
Read only property	pHComCorrGetLi veModeFile()	HComma nd	Returns an object reference to the HCommand object associated with the Correction Setup dialogs 'Get Live Mode Backsub File' pushbutton

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Read only property	pHComCorrGetSh adingFile()	HComma nd	Returns an object reference to the HCommand object associated with the Correction Setup dialogs 'Get Shading File' pushbutton
Read only property	pHComCorrOK()	HComma nd	Returns an object reference to the HCommand object associated with the Correction Setup dialogs 'OK' pushbutton
Read only property	pHComCurvcorrC ancel()	HComma nd	Returns an object reference to the HCommand object associated with the Curvature Correction Setup dialogs 'Cancel' pushbutton
Read only property	pHComCurvcorrD rawCurve()	HComma nd	Returns an object reference to the HCommand object associated with the Curvature Correction Setup dialogs 'Draw Curve' pushbutton
Read only property	pHComCurvcorrH orPoint1()	HComma nd	Returns an object reference to the HCommand object associated with the Curvature Correction Setup dialogs 'Define Horizontal Point 1' pushbutton
Read only property	pHComCurvcorrH orPoint2()	HComma nd	Returns an object reference to the HCommand object associated with the Curvature Correction Setup dialogs 'Define Horizontal Point 2' pushbutton
Read only property	pHComCurvcorrH orPoint3()	HComma nd	Returns an object reference to the HCommand object associated with the Curvature Correction Setup dialogs 'Define Horizontal Point 3' pushbutton
Read only property	pHComCurvcorrH orRecall1()	HComma nd	Returns an object reference to the HCommand object associated with the Curvature Correction Setup dialogs 'Recall Horizontal Point 1' pushbutton
Read only property	pHComCurvcorrH orRecall2()	HComma nd	Returns an object reference to the HCommand object associated with the Curvature Correction Setup dialogs 'Recall Horizontal Point 2' pushbutton
Read only property	pHComCurvcorrH orRecall3()	HComma nd	Returns an object reference to the HCommand object associated with the Curvature Correction Setup dialogs 'Recall Horizontal Point 3' pushbutton
Read only property	pHComCurvcorrL oad()	HComma nd	Returns an object reference to the HCommand object associated with the Curvature Correction Setup dialogs 'Load' pushbutton
Read only property	pHComCurvcorrSa ve()	HComma nd	Returns an object reference to the HCommand object associated with the Curvature Correction Setup dialogs 'Save' pushbutton
Read only property	pHComCurvcorrSe t()	HComma nd	Returns an object reference to the HCommand object associated with the Curvature Correction Setup dialogs 'Set' pushbutton
Read only property	pHComCurvcorrV erPoint1()	HComma nd	Returns an object reference to the HCommand object associated with the Curvature Correction Setup dialogs 'Define Vertical Point 1' pushbutton
Read only property	pHComCurvcorrV erPoint2()	HComma nd	Returns an object reference to the HCommand object associated with the Curvature Correction Setup dialogs 'Define Vertical Point 2' pushbutton
Read only property	pHComCurvcorrV erPoint3()	HComma nd	Returns an object reference to the HCommand object associated with the Curvature Correction Setup dialogs 'Define Vertical Point 3' pushbutton
Read only property	pHComCurvcorrV erRecall1()	HComma nd	Returns an object reference to the HCommand object associated with the Curvature Correction Setup dialogs 'Recall Vertical Point 1' pushbutton
Read only property	pHComCurvcorrV erRecall2()	HComma nd	Returns an object reference to the HCommand object associated with the Curvature Correction Setup dialogs 'Recall Vertical Point 2' pushbutton
Read only property	pHComCurvcorrV erRecall3()	HComma nd	Returns an object reference to the HCommand object associated with the Curvature Correction Setup dialogs 'Recall Vertical Point 3' pushbutton
Read only property	pHComDefPixCal culateDefectPixels ()	HComma nd	
Read only property	pHComDefPixClo	HComma	

Read only property Read only pro			1	
Read only property pHComDefFixGet mageHodPixels() aclaatebendffixels of to the HComma aclaatebendffixels of the HComma activated to the HComma activat	D - 1 - 1 1	se()	nd	
Read only property Read only pro	Read only property			
Read only property PHComDeffYsRed alculateDeadPixels on delaulateDeadPixels on the Common and property PHComDeffYsRed alculateHoffYsels) on the Common and property PHComDeffYsRed and only property PHComDeffYsRed only property PHComOptGetDef ectriveElfie() Read only property PHDisDeffYsAver ageDeadPixel() Read only property PHDisDeffYsAver ageDeadPixel() Read only property PHDisDeffYsAver ageDeadPixel() Read only property PHDisDeffYsRob pHDi	D 1 1			
Read only property PHComDefFixReC alculate/DedFixels() and ellower per pHComDefFixRed alculate/DedFixels() and ellower property PHComDefFixRed alculate/DedFixels() and ellower photography pHComDefFixRed alculate/DedFixels() and ellower property PHComOptCaneld property PHComOptCatel photography pHDisBedFixAver ageDeadFixel() Read only property pHDisDefFixAver ageDeadFixel() PHDisDefFixAver ageDeadFix	Read only property			
According to property pHComDefPixReC according to phComDefPixReC pHComme pHComDefPixReC according to phComDefPixReC pHComma rotNIFile() nd nd nd according to phComDefPixReC according to phComDefPixReC pHComma nd nd according to phComDefPixReC pHComma nd nd according to phComDefDefComDefC	D 1 1			
O	Read only property			
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Read only property	pHFraDefPixHotPi xels()	HFrame	
Read only property	pHFraDefPixResul ts()	HFrame	
Read only property	pHProBackProgres s()	HProgress	Returns an object reference to the HProgress object associated with the backsub dialogs 'Progress' progress bar
Read only property	pHRadCorrBackgr oundSource()	HRadios	Returns an object reference to the HRadios object associated with the Correction setup dialogs 'Background Source' radiobutton group
Read only property	pHRadCurvcorrCu rvatureDirection()	HRadios	Returns an object reference to the HRadios object associated with the Correction setup dialogs 'Curvature Direction' radiobutton group
Read only property	pHRadDefPixMeth od()	HRadios	
Read only property	pHWinBackDlg()	HWindow	Returns an object reference to the HWindow object associated with the Backsub dialogs main window
Read only property	pHWinCorrDlg()	HWindow	Returns an object reference to the HWindow object associated with the Correction Setup dialogs main window
Read only property	pHWinCurvcorrDl g()	HWindow	Returns an object reference to the HWindow object associated with the Curvature Correction dialogs main window
Read only property	pHWinDefPixDlg(HWindow	
Read only property	pHWinOptDlg()	HWindow	Returns an object reference to the HWindow object associated with the Options dialogs main window
Read only property	pHWinOptOptions ()	HWindow	Returns an object reference to the HWindow object associated with the options dialogs options picture box
Read only property	piAmMod()	Integer	Returns the acquisition module. Possible values are described in the enumeration AcquisitionModule
Read/write property	pfDisableAutoActi on()	Integer	Sets or returns a flag which defines whether automatic actions should be executed
Read/write property	pfDisableAutoInqu iry()	Integer	Sets or returns a flag which defines whether an inquiry is shown to the user before the autoaction takes place
Read/write property	pfOption32BitInAI	Integer	

Read/write property	pfOptionAutoCurv ature()	Integer	Sets or returns a value which defines whether Auto curvature function should be executed
Read/write property	pfOptionAutoShad ing()	Integer	Sets or returns a value which defines whether Auto shading function should be executed
Read/write property	pfOptionClipZero(Integer	Sets or returns a value which defines whether clip to Zero function should be executed during background subtraction
Read/write property	pfOptionDefectCor rection()	Integer	
Read/write property	pfOptionSlowDisp lay()	Integer	Sets or returns a value which defines whether slow display function should be executed during LIVE mode
Read/write property	pfOptionWriteDP CFile()	Integer	Sets or returns a value which defines whether DPC files should be written during photon counting
Read/write property	pfRestoreWindow Pos()	Integer	Sets or returns a value which defines whether the window position, its size and window state is restored when the window is displayed again after it has been closed
Read/write property	pfStartImagesIndiv idually()	Integer	
Read/write property	pfUserIF()	Integer	Sets or returns a value which defines whether the associated window should be shown on screen. A window is only displayed under the following condition: pfUserIF=TRUE, pfVisible=TRUE, pfHideForm=FALSE
Read/write property	piOptionAdditiona lTimeout()	Integer	Sets or returns the value for additional timeout
Read/write property	psOptionDefectPix elFile()	String	
Function	piValidAcqMode(ByVal iAcqMode As Integer)	Integer	Returns a flag which defines whether the specified AcqMode is valid
Function	psGetStatus()	String	Returns the current acquisition status string
Sub	pAsyncAcquire()	8	Starts Acquire mode asynchronously
Sub	pAsyncAnalogInte gration()		Starts Analog Intergration mode asynchronously
Sub	pAsyncLive(ByVa l fSingleImage As Integer)		Starts Live mode asynchronously
Sub	pAsyncPhotonCou nting()		Starts Photon Counting mode asynchronously
Sub	pGetAcqDim(iX As Integer, iY As Integer, iDX As Integer, iDY As Integer, iBytesPerPixel As Integer)		Gets the acquisition dimensions for the current camera settings
Sub	pStopAcquisition()		Stops the currently running acquisition
Sub	pUpdateCameraPa rms()		

HGrb

Read only property	pfGrbIs4MType()	Integer	Return whether or not the framebuffer has 4 MB
Read only property	piFrameBytesPerPi	Integer	Returns the number of bytes per pixel within the frame
	xel()		grabbers frame
Read/write property	pGrbDataValid()	Integer	Returns a value whether or not the data in the frame
			grabber is valid
Read/write property	pVideoExtSync()	Integer	Sets or returns whether external sync is used for a video
			camera
Read/write property	pVideoStartField()	Integer	Sets the start field for a video camera
Function	pAcqAverageMulti	Integer	Average a series of 8 bit images acquired from video

			T
Function	pleFrames(ByVal fICPAverageMulti pleFrames As Integer, ByVal iICPAverageMulti pleFramesCount As Integer, ByVal lpvBufferArea As Long, ByVal areBufferiX As Integer, ByVal areBufferiY As Integer, ByVal areBufferiDX As Integer, ByVal areBufferiDY As Integer, ByVal iBufferBytesPerPi xel As Integer, ByVal lBuffer16Handle As Long) pAcqGrbStartTrig SeqSnap(ByVal fICPAverageMulti pleFrames As Integer, ByVal iICPAverageMulti pleFramesCount As Integer, ByVal	Integer	Start a triggered sequential snap
	miAdditionalTime out As Integer, ByRef IHCall2AcqContro 1 As IHCall2AcqContro 1)		
Function	pCheckVideoCam era()	Integer	Check operation of a video camera
Function	pCreateFrame(By Val iBits As Integer, ByVal fSeqFrame As Integer, ByVal iNrSeqFrames As Integer)	Integer	Creates a frame on the frame grabber
Function	pfAcqEnterVB(By Val fTargetField As Integer, ByVal ftTimeout As Single)	Integer	Wait until the camera enters the vertical blank
Function	pfAcqPassLine(By Val lStartLine As Long, ByVal iVact As Integer, ByVal ftTimeout As Single)	Integer	Waits until the camera passes a specified line. The line number can alos have the meaning of a byte counter
Function	pfCanAcquireLarg eFrames()	Integer	Returns a value which indicates that the current frame grabber configuration can acquire large frames (larger than the frame grabbers memory)
Function	pfGrbCheckEndOf	Integer	Return the state whether or not an acquisition has ended

	Acquisition()		
Function	pfGrbCopyFBToB	Integer	Copies the content of the frame buffer into a computers
	uffer(ByVal		memory buffer
	lpvBufferArea As		memory burier
	Long, ByRef		
	areBufferiX As		
	Integer, ByRef		
	areBufferiY As		
	Integer, ByRef		
	areBufferiDX As		
	Integer, ByRef		
	areBufferiDY As		
	Integer, ByRef		
	iBufferBytesPerPi		
	xel As Integer)		
Function	pfGrbCopyFBToB	Integer	Copies the content of the frame buffer into a computers
Function		integer	Copies the content of the frame buffer into a computers
	ufferInParts(ByVal		memory buffer in parts
	lpvBufferArea As		
	Long, ByRef		
	areBufferiX As		
	Integer, ByRef		
	areBufferiY As		
	Integer, ByRef		
	areBufferiDX As		
	Integer, ByRef		
	areBufferiDY As		
	Integer, ByRef		
	iBufferBytesPerPi		
	xel As Integer,		
	ByVal iParts As		
	-		
	Integer, ByVal		
	fCheckValid As		
	Integer)		
Function	pfGrbCopyFBToM	Integer	Copies the content of the frame buffer into an image
	em(ByRef HImage		memory
	As HImage)		
Function	pfGrbCopyFBToM	Integer	Copies the content of the frame buffer into an image
	emInParts(ByRef		memory in parts
	HImage As		
	HImage, ByVal		
	iParts As Integer,		
	ByVal		
	fCheckValid As		
	Integer)		
Function		Integer	Sate the Input LUT for photon counting
Function	pfGrbSetInputLUT	Integer	Sets the Input LUT for photon counting
	forPC(ByVal		
	iThreshold As		
	Integer, ByVal		
	iDat As Integer)		
Function	pGetVideoCamera	Integer	Get info about the cameras frame
	Info(ByRef		
	iCameraDX As		
	Integer, ByRef		
	iCameraDY As		
	Integer, ByRef		
	ftVideoFrameTime		
	As Single)		
Eunotion		Intoas	Cote the hardware window personates for a size BOI
Function	pGetWindow(ByR	Integer	Gets the hardware window parameters for a given ROI
	ef hOff%, ByRef		
	hAct%, ByRef		
	vOff%, ByRef	1	1

	vAct%)		
Function	pgrbacqbits(ByVal	Integer	Sets the frame grabbers acquisition bits
	itxmode As	Integer	grace are manne grace are an quiernon ente
	Integer)		
Function	pgrbfreeze()	Integer	Freezes the current acquisition
Function	pGrbGetImgAttrib	Integer	Gets the attributes of the image in frame grabber
T direction	(ByRef	Integer	Gets the attributes of the image in frame grasser
	areSourceiX As		
	Integer, ByRef		
	areSourceiY As		
	Integer, ByRef		
	areSourceiDX As		
	Integer, ByRef		
	areSourceiDY As		
	Integer, ByRef		
	iBytesPerPixel As		
	Integer)		
Function	pGrbGetScanArea(Integer	Get the scan area
	ByVal iCameraDX		
	As Integer, ByVal		
	iCameraDY As		
	Integer, ByRef		
	pntDummyX As		
	Integer, ByRef		
	pntDummyY As		
	Integer, ByRef		
	pntCamWidthX As		
	Integer, ByRef		
	pntCamWidthY As		
	Integer, ByRef		
	areGRBScaniX As		
	Integer, ByRef		
	areGRBScaniY As		
	Integer, ByRef		
	areGRBScaniDX		
	As Integer, ByRef		
	areGRBScaniDY		
	As Integer, ByRef		
	areValidIMGiX As		
	Integer, ByRef		
	areValidIMGiY As		
	Integer, ByRef		
	areValidIMGiDX		
	As Integer, ByRef		
	areValidIMGiDY		
	As Integer, ByRef		
	pntOrigFBX As		
	Integer, ByRef		
	pntOrigFBY As		
	Integer)		
Function	pGrbGetWindowF	Integer	Get the window generator hardware parameters for a
	orSubArea(ByVal		given subarrea
	iX%, ByVal iY%,		
	ByVal iDX%,		
	ByVal iDY%,		
	ByRef hOff%,		
	ByRef hAct%,		
	ByRef vOff%,		
	ByRef vAct%,		
D .:	ByRef sError\$)	T .	[]
Function	pgrbgrab()	Integer	Starts grabbing

-	1 0 1 0 - 5 - 5	I - .	
Function	pGrbSetDefaultSet	Integer	Set default settings
	tings(ByVal		
	iFrameDX As		
	Integer, ByVal		
	iFrameDY As		
	Integer)		
Function	pgrbsnap()	Integer	Snaps a single image
Function	pGrbWaitEndOfIm	Integer	Wait unti end of image readout
	gReadout(ByVal		
	ftTimeout As		
	Single)	_	
Function	pGrbWriteLinearIn	Integer	Writes a linear input LUT
	putLUT(ByVal		
	iDat As Integer)		
Function	pGrbWriteReduce	Integer	Write a linear LUT which reduces the image to 8 bit
	dLinLUT(ByVal		
	iDat As Integer,		
	ByVal iThreshold		
	As Integer)		
Function	piInit(ByVal	Integer	Initializes the frame grabber
	sConfigFile As		
	String, ByVal		
	iGRB As Integer,		
	ByVal		
	iGrabberSysNo As		
	Integer, ByVal		
	iAmMod As		
	Integer, ByVal		
	iComPort As		
	Integer, ByRef		
	sError As String,		
	ByRef HError As		
	HError, ByVal		
	iModelNr As		
	Long, lHandle As		
	Long)		
Function	plAcqAmDigStart	Long	Calculates the starting line (or byte counter) used for the
	Line(ByRef		CatCo strategy
	areACQiX As		
	Integer, ByRef		
	areACQiY As		
	Integer, ByRef		
	areACQiDX As		
	Integer, ByRef		
	areACQiDY As		
	Integer, ByVal		
	lpvBufferArea As		
	Long, ByRef		
	iBufferBytesPerPi		
	xel As Integer,		
	ByRef		
	ftTimeForReadout		
	As Single, ByRef		
	ftFrameTime As		
	Single, ByVal		
	ftTimeoutFromCa		
	mera As Single,		
	ByRef lLastLine		
	As Long)		
Function	plCurrenLine(ByV	Long	Returns the current line (or byte counter)
	al iDY As Integer)		

Function	pPassVB()	Integer	Passes the next vertical blank
Function Function	pPassVB() pRSeqDoABSeque nce(ByVal areGRBScaniX As Integer, ByVal areGRBScaniDX As Integer, ByVal areGRBScaniDX As Integer, ByVal areGRBScaniDY As Integer, ByVal iBytesPerPixel As Integer, ByVal iBytesPerPixel As Integer, ByVal fWrap As Integer, IRSeqPtr()	Long, ByRef slSeqTim e() As String, ByRef dbRSeqSt artTime As Double, ByRef HEdnSeq CurrentSa mple As HEditNu mber,	Passes the next vertical blank Executes an AB sequence
		ByVal fEnableSt opinSeque nce As Integer, ByVal INrSampl es As Long, ByRef IHCall2A cqControl As IHCall2A cqControl, ByVal ftTimeout As Single) As Integer	
Function	pRSeqDoAmvsCat coSequence(ByVal fWrap As Integer, ByRef iErrors As Integer, ByRef HEdnSeqCurrentS ample As HEditNumber, ByRef IRSeqPtr()	Long, ByRef dbRSeqSt artTime As Double, ByRef slSeqTim e() As String, ByVal fEnableSt opinSeque nce As Integer, ByVal lNrSampl es As Long, ByRef IHCall2A cqControl As IHCall2A cqControl	Executes CatCo sequence for video module

	T) A =	
) As	
Function	nCatWindow/D-V	Integer	Sate the window consented homeone
Function	pSetWindow(ByV	Integer	Sets the window generator harware parameters
	al hOff%, ByVal		
	hAct%, ByVal		
	vOff%, ByVal		
E-matian	vAct%)	Ctuin	Determine a stain a defining the assument status
Function	psGetStatus()	String	Returns a string defining the current status
Function	Test()		Class or all references
Sub	pCleanUp()		Clean up all references
Sub	pSetHMsgBox(H		
	MsgBox As		
G 1	HMsgBox)		G + 4 + + + 12 + C G 112G 11
Sub	pSetIHCall2Seque		Sets the target object for Call2Sequence calls
	nce(ByVal		
	IHCall2Sequence		
	As		
G 1	IHCall2Sequence)		G
Sub	pSetIHCall2UserF		Sets the target object for Call2userFunc calls
	unc(ByVal		
	IHCall2UserFunc		
	As		
	IHCall2UserFunc)		
HLicence			
Read only property	pfApplicationKeyF	Integer	Returns a flag defining whether the correct application
	ound()		key could be found
Read only property	pfGetCustomKey(i	Integer	Returns an information whether the Custom Key with the
	Index As Integer)		specified index exists
Read only property	pfLicenceAcquire(Returns a flag defining whether a key for acquiring
)		images could be found
Read only property	pfLicenceFitting()		Returns a flag defining whether a key for fitting could be
			found
Read only property	pfLicenceRCOnly(Returns a flag defining whether a key for RC only could
)		be found
Read only property	pfLicenceSave()		Returns a flag defining whether a key for saving images
			and profiles could be found
Read only property	pfLicenceSequenc		Returns a flag defining whether a key for sequence
	e()		acquisition could be found
Read only property	pfLicenceTransAb		Returns a flag defining whether a key for transien
	s()		absorption could be found
Read only property	piLicenceDemoMo	Integer	Returns a value defining which demo mode is used in the
	de()		case no licence could be found.
HUtils			
Event	CloseComm()		Event which is raised when the RS232 communication is
	Ĭ		closed
Event	CommPortChange		Event which is raised when the com prt has been
	d()		changed
Event	EndDetected()		Event which is raised when an END string is detected in
			the communication from the camera
Event	GeneralMessage(B		
	yVal sMessage As		
	String)		
Read only property	pfRS232DlgVisibl	Integer	Returns a flag which defines whether the RS232 dialog is
JI II I	e()		visible
HAsyncComma		•	•
Event	AfterCommand(By		Event which is raised after the execution of an
Lyont	Val sCommand As		asynchronous command
	String)		asyncinolious command
Event	BeforeCommand(Event which is raised before the execution of an
Lycht	ByVal sCommand		asynchronous command
	y vai scoillillaild	L	asynchronous command

	A = Ctuin =)	1	
Essent	As String)		Front which is miss 1 to 1 to 1 to 1
Event	DoCommand(ByV		Event which is raised to execute an asynchronous
	al sCommand As		command
	String, ByVal		
	vParam0 As		
	Variant, ByVal		
	vParam1 As		
	Variant, ByVal		
	vParam2 As		
	Variant, ByVal		
	vParam3 As		
	Variant, ByVal		
	vParam4 As		
	Variant)		
Read only property	pfAsyncCommand	Integer	Returns a value which defines whether an acync
	Active()		command is currently running. Another async command
			will not start is such case
Read only property	psActiveAsyncCo	String	Returns a string indication the currently active async
and the property	mmand()	28	command (if an async command is actice)
HMcgRoy	()	1	commune (if an asyme commune is active)
HMsgBox	M. D. (D. 17.1	1	Product the transfer of the state of the sta
Event	MsgBox(ByVal		Event which is raised in remote control mode when the
	iID As Integer,		pfNoDialogs property is set to true instead of showing a
	ByVal sPrompt As		messagebox. This event can be use for the client program
	String, ByVal		to react on such messages
	sTitle As String,		
	ByVal Style As		
	Integer, ByVal		
	Buttons As Integer,		
	ByRef default As		
	Integer)		
D = a 4/i4 =		T4	Sets or returns a value which defines whether a visible
Read/write property	pfNoDialogs()	Integer	
			MessageBox should be explizitly supressed
HError			
Read only property	psErrorFile()	String	Sets or returns a string defining the filename to which
			the erro report is written in case of an error
Sub	pErrRegEvent(By		Registers an event to the error handler
	Val sName As		Č
	String, ByVal		
	fBasicEvent As		
0.1	Integer)		
Sub	pEventError(ByVa		Starts the event handler when an error has been raised in
	1 sModuleEvent As		an event. This is the ending point of the error handling
	String)		
Sub	pFunctionError(By]	Starts the event handler when an error has been occurred
	Val		in a function/sub. At the end such error handler raises
	sModuleFunction		again an error which returns control one level up in the
	As String,		calling order. The last level in the calling order is an
	Optional		event (See pEventError)
		1	oven (bee priving in the control)
	RaiseFrror)		
IIChaal-	RaiseError)		
HCheck	,		
HCheck Event	RaiseError) ChangeEnabled()		Event which is raised when the pfEnabled property
	,		changes
	ChangeEnabled()		changes
Event	,		changes Event which is raised when the pfValue property
Event Event	ChangeEnabled() ChangeValue()		changes Event which is raised when the pfValue property changes
Event	ChangeEnabled()		changes Event which is raised when the pfValue property changes Event which is raised when the pfVisible property
Event Event	ChangeEnabled() ChangeValue() ChangeVisible()	Ohiort	changes Event which is raised when the pfValue property changes Event which is raised when the pfVisible property changes
Event Event	ChangeEnabled() ChangeValue()	Object	changes Event which is raised when the pfValue property changes Event which is raised when the pfVisible property changes Returns a reference to the parent object of this object. If
Event Event	ChangeEnabled() ChangeValue() ChangeVisible()	Object	changes Event which is raised when the pfValue property changes Event which is raised when the pfVisible property changes Returns a reference to the parent object of this object. If this reference is Nothing this object is the topmost object
Event Event	ChangeEnabled() ChangeValue() ChangeVisible()	Object	changes Event which is raised when the pfValue property changes Event which is raised when the pfVisible property changes Returns a reference to the parent object of this object. If

Read only property	pfControlAvail()	Integer	Returns a value which specifies whether the object can be controlled by the client programmer (This is dependent on the pfVisible and pfEnabled properties and those of its parent)
Read only property	pfEnabled()	Integer	Returns a value which specifies whether the object is enabled
Read only property	pfVisible()	Integer	Returns a value which specifies whether the object is visible
Read only property	psName()	String	Returns the name of the object
Read/write property	pfValue(Optional DoEvent As Variant, Optional IgnoreDisable As Variant, Optional NoError As Integer)	Integer	Sets or returns the value of the object (true if checked and false if unchecked)
Read/write property	psCaption()	String	Sets or returns the text which is used to label the associated control
Sub	pRegEvent(ByVal sEvent As String, ByVal fBasicEvent As Integer)		Should not be used by clients! (Registers an event to the error handler)
HCheck4Array			
Event	ChangeEnabled(B vVal Index As		Event which is raised when the pfEnabled property changes

Event	ChangeEnabled(B		Event which is raised when the pfEnabled property
	yVal Index As		changes
	Integer)		
Event	ChangeValue(ByV		Event which is raised when the pfValue property
	al Index As		changes
	Integer)		
Event	ChangeVisible(By		Event which is raised when the pfVisible property
	Val Index As		changes
	Integer)		
Read only property	pcItem(ByVal	HCheck	Returns an object reference to the specified HCheck
	Index As Integer)		object
Read only property	psName()	String	Returns the name of the object

HCommand

HCommand			
Event	ChangeEnabled()		Event which is raised when the pfEnabled property changes
Event	ChangeVisible()		Event which is raised when the pfVisible property changes
Event	Click()		Event which is raised when the pClick method is executed
Read only property	pcParent()	Object	Returns a reference to the parent object of this object. If this reference is Nothing this object is the topmost object within the object hierarchy (normally the HWindow object of the associated dialog)
Read only property	pfControlAvail()	Integer	Returns a value which specifies whether the object can be controlled by the client programmer (This is dependent on the pfVisible and pfEnabled properties and those of its parent)
Read only property	pfEnabled()	Integer	Returns a value which specifies whether the object is enabled
Read only property	pfVisible()	Integer	Returns a value which specifies whether the object is visible
Read only property	psName()	String	Returns the name of the object
Read/write property	psCaption()	String	Sets or returns the text which is used to label the associated control
Sub	pClick()		Method which raises the Click-Event and executes the associated command
Sub	pRegEvent(ByVal		Should not be used by clients! (Registers an event to the

	sEvent As String,		error handler)
	ByVal fBasicEvent As Integer)		
HCommand4Ar			
Event	ChangeEnabled(B yVal Index As Integer)		Event which is raised when the pfEnabled property changes
Event	ChangeVisible(By Val Index As Integer)		Event which is raised when the pfVisible property changes
Event	Click(Index As Integer)		
Read only property	pcItem(ByVal Index As Integer)	HComma nd	Returns an object reference to the specified HCommand object
Read only property	psName()	String	Returns the name of the object
HDisp			
Event	ChangeMessage()		Event which is raised when the psMessage property changes
Event	ChangeVisible()		Event which is raised when the pfVisible property changes
Read only property	pcParent()	Object	Returns a reference to the parent object of this object. If this reference is Nothing this object is the topmost object within the object hierarchy (normally the HWindow object of the associated dialog)
Read only property	pfControlAvail()	Integer	Returns a value which specifies whether the object can be controlled by the client programmer (This is dependent on the pfVisible and pfEnabled properties and those of its parent)
Read only property	pfEnabled()	Integer	Returns a value which specifies whether the object is enabled
Read only property	pfVisible()	Integer	Returns a value which specifies whether the object is visible
Read only property	psMessage()	String	Returns a text containing the message which is displayed on the corresponding control
Read only property	psName()	String	Returns the name of the object
Read/write property	psCaption()	String	Sets or returns the text which is used to label the associated control
Sub	pRegEvent(ByVal sEvent As String, ByVal fBasicEvent As Integer)		Should not be used by clients! (Registers an event to the error handler)
HDisp4Array	<i>U</i> /		
Event	ChangeMessage(In dex As Integer)		Event which is raised when the psMessage property of the specified HDisp object changes
Event	ChangeVisible(Ind ex As Integer)		Event which is raised when the pfVisible property of the specified HDisp object changes
Read only property	pcItem(ByVal Index As Integer)	HDisp	Returns an object reference to the specified HDisp object
Read only property	psName()	String	Returns the name of the object
HEditNumber			
Event	ChangeEnabled()		Event which is raised when the pfEnabled property changes
Event	ChangeLimits()		Event which is raised when either pvMinValue or pvMaxValue changes
Event	ChangeValue()		Event which is raised when the pfValue property changes
Event	ChangeVisible()		Event which is raised when the pfVisible property changes
Read only property	pcParent()	Object	Returns a reference to the parent object of this object. If this reference is Nothing this object is the topmost object

	1		
			within the object hierarchy (normally the HWindow object of the associated dialog)
Read only property	pfControlAvail()	Integer	Returns a value which specifies whether the object can be controlled by the client programmer (This is dependent on the pfVisible and pfEnabled properties and those of its parent)
Read only property	pfEnabled()	Integer	Returns a value which specifies whether the object is enabled
Read only property	pfVisible()	Integer	Returns a value which specifies whether the object is visible
Read only property	piNumberType()	Integer	Returns the number type of the object (Possible values are described in the enumeration NumberType)
Read only property	psName()	String	Returns the name of the object
Read only property	pvMaxValue()	Variant	Maximum value limiting the range for pvValue
Read only property	pvMinValue()	Variant	Minimum value limiting the range for pvValue
Read/write property	psCaption()	String	Sets or returns the text which is used to label the associated control
Read/write property	pvValue(Optional DoEvent As Variant, Optional IgnoreDisable As Variant, Optional NoError As	Variant	Returns the value of the object
Sub	Integer) pRegEvent(ByVal sEvent As String, ByVal fBasicEvent As Integer)		Should not be used by clients! (Registers an event to the error handler)
HEditNumber4		1	
Event	ChangeEnabled(B yVal Index As Integer)		Event which is raised when the pfEnabled property changes
Event	ChangeLimits(By Val Index As Integer)		
Event	ChangeValue(ByV al Index As Integer)		Event which is raised when the pfValue property changes
Event	ChangeVisible(By Val Index As Integer)		Event which is raised when the pfVisible property changes
Read only property	pcItem(ByVal Index As Integer)	HEditNu mber	Returns an object reference to the specified HEditNumber object
Read only property	psName()	String	Returns the name of the object
HEditString			
Event	ChangeEnabled()		Event which is raised when the pfEnabled property changes
Event	ChangeText()		Event which is raised when the psText property changes
Event	ChangeVisible()		Event which is raised when the pfVisible property changes
Read only property	pcParent()	Object	Returns a reference to the parent object of this object. If this reference is Nothing this object is the topmost object within the object hierarchy (normally the HWindow object of the associated dialog)
Read only property	pfControlAvail()	Integer	Returns a value which specifies whether the object can be controlled by the client programmer (This is dependent on the pfVisible and pfEnabled properties and those of its parent)
Read only property	pfEnabled()	Integer	Returns a value which specifies whether the object is enabled

Read only property	pfVisible()	Integer	Returns a value which specifies whether the object is visible
Read only property	psName()	String	Returns the name of the object
Read/write property	psCaption()	String	Sets or returns the text which is used to label the associated control
Read/write property	psText(Optional DoEvent As Variant, Optional IgnoreDisable As Variant, Optional NoError As Integer)	String	Sets or returns the text of the object
Sub	pRegEvent(ByVal sEvent As String, ByVal fBasicEvent As Integer)		Should not be used by clients! (Registers an event to the error handler)

HEntry

HEntry			
Event	ChangeEnabled()		Event which is raised when the pfEnabled property changes
Event	ChangeNoEntries()		Event which is raised when the piNoEntries property changes
Event	ChangeValue()		Event which is raised when the selected entry changes
Event	ChangeVisible()		Event which is raised when the pfVisible property changes
Read only property	EntryType()	Integer	Returns the entry type of the object. Possible values are defined in the enumeration EntryType
Read only property	pcParent()	Object	Returns a reference to the parent object of this object. If this reference is Nothing this object is the topmost object within the object hierarchy (normally the HWindow object of the associated dialog)
Read only property	pfControlAvail()	Integer	Returns a value which specifies whether the object can be controlled by the client programmer (This is dependent on the pfVisible and pfEnabled properties and those of its parent)
Read only property	pfEnabled()	Integer	Returns a value which specifies whether the object is enabled
Read only property	pfVisible()	Integer	Returns a value which specifies whether the object is visible
Read only property	piNoEntries()	Integer	Returns the number of entries of the object
Read only property	psName()	String	Returns the name of the object
Read only property	psSetKeyValue(By Val Index As Integer)	String	Returns the key value of a specified entry index (Not necessarily the current one)
Read only property	psSetTag(ByVal Index As Integer)	String	Rerturns the tag value of a specified entry index (Not necessarily the current one)
Read only property	psTag()	String	Rerturns the tag value of the object (This is an additional string entry associated to every entry)
Read/write property	pfSearchNext()	Integer	Sets or returns a value which defines whether the nearest neighbour should be selected if no exact match is found (Only valid in combination EntryTypeTime orEntryTypeNumber)
Read/write property	pftValue(Optional DoEvent As Variant, Optional IgnoreDisable As Variant, Optional NoError As Integer)	Single	Sets or returns a numerical value associated to the entry type. Time values in ms, numerical values or entry indexes are used depending on the EntryType
Read/write property	piEntry(Optional DoEvent As	Integer	Sets or returns the entry index (Entries are numbered from piEntry=0 to piNrEntries-1)

IgnoreDisable As Variant, Optional NoError As Integer) String Sets or returns the text which is used to label the associated control associated whether the contain the specified string value of the entry. When this value is set the all entries are searched whether the contain the specified string. String Strong Strong Strong Should not be used by clients! (Registers an event to the error handler)				
Read/write property Read property Read property Read only property Pr				
Read/write property Read write property Read only property PfControlAvail() Read only property PfControlAvail() Read only property Read only property Read only property PfControlAvail() Read only property Read only property Read only property Read only p		NoError As		
Name Name String value of the entry. When this value is set the all entries are searched whether the contain the specified string.	Read/write property		String	
SEVent As String, ByVal fBasicEvent As Integer) Property	Read/write property	nal DoEvent As Variant, Optional IgnoreDisable As Variant, Optional NoError As	String	string value of the entry. When this value is set the all entries are searched whether the contain the specified
Event ChangeLimits(By Val Index As Integer) Event ChangeLimits(By Val Index As Integer) Event ChangeValue(ByV Val Index As Integer) Event ChangeValue(ByV Val Index As Integer) Event ChangeVisible(By Val Index As Integer) Read only property peltem(ByVal Index As Integer) Read only property psName() Event Which is raised when the pfValue property changes Read only property psName() Event which is raised when the pfValue property changes Event ChangeEnabled() Event which is raised when the pfEnabled property changes Event ChangeVisible() Event which is raised when the pfEnabled property changes Event ChangeVisible() Event which is raised when the pfEnabled property changes Event ChangeVisible() Event which is raised when the pfEnabled property changes Event Which is raised when the pfEnabled property changes Event ChangeVisible() Event which is raised when the pfEnabled property changes Event Which is raised when the pfEnabled property changes Event Which is raised when the pfEnabled property changes Event Which is raised when the pfEnabled property changes Event Which is raised when the pfEnabled property changes Event Which is raised when the pfEnabled property changes Event Which is raised when the pfVisible property changes Event Which is raised when the pfVisible property changes Event Which is raised when the pfVisible property changes Event Which is raised when the pfVisible property changes Event Which is raised when the pfVisible property changes Event Which is raised when the pfVisible property changes Event Which is raised when the pfVisible property changes Event Which is raised when the pfVisible property changes Event Which is raised when the pfVisible property changes Event Which is raised when the pfVisible property changes Event Which is raised when the pfVisible property changes Event Which is raised when the pfVisible prope		pRegEvent(ByVal sEvent As String, ByVal fBasicEvent		
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Read only property pfVisible() Integer Returns a value which specifies whether the object is visible Read only property psName() String Returns the name of the object Read/write property psCaption() String Sets or returns the text which is used to label the associated control Sub pRegEvent(ByVal sEvent As String, ByVal fBasicEvent As Integer) Should not be used by clients! (Registers an event to the error handler) HFrame4Array	Read only property	pfControlAvail()	Integer	be controlled by the client programmer (This is dependent on the pfVisible and pfEnabled properties and
Read only property pfVisible() Integer Returns a value which specifies whether the object is visible Read only property psName() String Returns the name of the object Read/write property psCaption() String Sets or returns the text which is used to label the associated control Sub pRegEvent(ByVal sEvent As String, ByVal fBasicEvent As Integer) Should not be used by clients! (Registers an event to the error handler) HFrame4Array	Read only property	pfEnabled()	Integer	Returns a value which specifies whether the object is
Read/write property psCaption() String Sets or returns the text which is used to label the associated control Sub pRegEvent(ByVal sEvent As String, ByVal fBasicEvent As Integer) Sets or returns the text which is used to label the associated control Should not be used by clients! (Registers an event to the error handler) HFrame4Array	Read only property	pfVisible()	Integer	Returns a value which specifies whether the object is
associated control Sub pRegEvent(ByVal sEvent As String, ByVal fBasicEvent As Integer) Should not be used by clients! (Registers an event to the error handler) error handler) HFrame4Array	Read only property	psName()	String	
sEvent As String, ByVal fBasicEvent As Integer) error handler) HFrame4Array	Read/write property	psCaption()	String	
V	Sub	sEvent As String, ByVal fBasicEvent		
V	HFrame4Array			
=		ChangeEnabled(B		Event which is raised when the pfEnabled property

	yVal Index As		changes
	Integer)		
Event	ChangeVisible(By Val Index As		Event which is raised when the pfVisible property changes
Dood only managery	Integer)	HFrame	Detume on chicat reference to the enceified Himema
Read only property	pcItem(ByVal Index As Integer)		Returns an object reference to the specified HFrame object
Read only property	psName()	String	Returns the name of the object
HMenu	1	1	,
Event	ChangeChecked()		Event which is raised when the pfChecked property changes
Event	ChangeEnabled()		Event which is raised when the pfEnabled property changes
Event	ChangeVisible()		Event which is raised when the pfVisible property changes
Event	Click()		Event which is raised when the pClick method is executed
Read only property	pcParent()	Object	Returns a reference to the parent object of this object. If this reference is Nothing this object is the topmost object within the object hierarchy (normally the HWindow object of the associated dialog)
Read only property	pfChecked()	Integer	Returns a value which specifies whether the object is checked
Read only property	pfControlAvail()	Integer	Returns a value which specifies whether the object can
			be controlled by the client programmer (This is
			dependent on the pfVisible and pfEnabled properties and those of its parent)
Read only property	pfEnabled()	Integer	Returns a value which specifies whether the object is enabled
Read only property	pfVisible()	Integer	Returns a value which specifies whether the object is visible
Read only property	psName()	String	Returns the name of the object
Read/write property	psCaption()	String	Sets or returns the text which is used to label the associated control
Sub	pClick()		Method which raises the Click-Event and executes the associated command
Sub	pRegEvent(ByVal sEvent As String, ByVal fBasicEvent As Integer)		Should not be used by clients! (Registers an event to the error handler)
HProgress			
Event	ChangePercent()		Event which is raised when the pfPercent property changes
Event	ChangeVisible()		Event which is raised when the pfVisible property changes
Read only property	pcParent()	Object	Returns a reference to the parent object of this object. If this reference is Nothing this object is the topmost object within the object hierarchy (normally the HWindow object of the associated dialog)
Read only property	pfControlAvail()	Integer	Returns a value which specifies whether the object can be controlled by the client programmer (This is dependent on the pfVisible and pfEnabled properties and those of its parent)
Read only property	pfEnabled()	Integer	Returns a value which specifies whether the object is enabled
Read only property	pftPercent()	Single	Returns a value indication the displayed percentage
Read only property	pfVisible()	Integer	Returns a value which specifies whether the object is visible
Read only property	psMessage()	String	Returns a string indicating the displayed message
Read only property	psName()	String	Returns the name of the object

Read/write property	psCaption()	String	Sets or returns the text which is used to label the
			associated control
Sub	pRegEvent(ByVal sEvent As String, ByVal fBasicEvent As Integer)		Should not be used by clients! (Registers an event to the error handler)
HProgress4Arra	ıy		
Event	ChangePercent(By Val Index As Integer)		Event which is raised when the pfPercent property changes
Event	ChangeVisible(By Val Index As Integer)		Event which is raised when the pfVisible property changes
Read only property	pcItem(ByVal Index As Integer)	HProgress	Returns an object reference to the specified HCommand object
Read only property	psName()	String	Returns the name of the object
HRadios			
Event	ChangeEnabled()		Event which is raised when the pfEnabled property changes
Event	ChangeNoEntries()		Event which is raised when the piNoEntries property changes
Event	ChangeRadio()		Event which is raised when the piRadio property changes
Event	ChangeRadioEnabl ed(ByVal iRadio As Integer)		Event which is raised when the pfRadioEnabled property changes
Event	ChangeRadioVisib le(ByVal iRadio As Integer)		Event which is raised when the pfRadioVisible property changes
Event	ChangeVisible()		Event which is raised when the pfVisible property changes
Read only property	pcParent()	Object	Returns a reference to the parent object of this object. If this reference is Nothing this object is the topmost object within the object hierarchy (normally the HWindow object of the associated dialog)
Read only property	pfControlAvail()	Integer	Returns a value which specifies whether the object can be controlled by the client programmer (This is dependent on the pfVisible and pfEnabled properties and those of its parent)
Read only property	pfEnabled()	Integer	Returns a value which specifies whether the object is enabled
Read only property	pfRadioEnabled(B yVal iRadio As Integer, Optional DoEvent As Variant)	Integer	Returns a value which specifies the enabled status of the indicated radiobutton
Read only property	pfRadioVisible(By Val iRadio As Integer, Optional DoEvent As Variant)	Integer	Returns a value which specifies the enabled status if the indicated radiobutton
Read only property	pfVisible()	Integer	Returns a value which specifies whether the object is visible
Read only property Read only property	piNoEntries() piRadioFromValue (ByVal iValue As Integer)	Integer Integer	Returns the number of entries of the object Returns the radiobutton index from a specified value
Read only property	piSetValue(ByVal iRadio As Integer)	Integer	Returns the value of a specified radiobutton index (Not necessarily the current one)
Read only property	psName()	String	Returns the name of the object
Read only property	psSetKeyValue(By	String	Returns the key value of a specified radiobutton index

	Val iRadio As Integer)		(Not necessarily the current one)
Read/write property	piRadio(Optional DoEvent As Variant, Optional IgnoreDisable As Variant, Optional NoError As Integer)	Integer	Sets or returns the index of the currenly selected radiobutton. It is numbered from (piRadio=0 to piNoEntries-1)
Read/write property	piValue(Optional DoEvent As Variant, Optional IgnoreDisable As Variant, Optional NoError As Integer)	Integer	Returns the value which is associated with the currently selected radiobutton
Read/write property	psCaption()	String	Sets or returns the text which is used to label the associated control
Read/write property	psKeyValue(Optio nal DoEvent As Variant, Optional IgnoreDisable As Variant, Optional NoError As Integer)	String	Sets or returns the key value of the object. When this value is set the radiobutton with the specified key value is selected
Sub	pRegEvent(ByVal sEvent As String, ByVal fBasicEvent As Integer)		Should not be used by clients! (Registers an event to the error handler)
HRadios4Array			
Event	ChangeEnabled(B yVal Index As Integer)		Event which is raised when the pfEnabled property changes
Event	ChangeNoEntries(ByVal Index As Integer)		Event which is raised when the piNoEntries property changes
Event	ChangeRadio(ByV al Index As Integer)		
Event	ChangeRadioEnabl ed(ByVal iIndex As Integer, ByVal Index As Integer)		Event which is raised when the pfRadioEnabled property changes
Event	ChangeRadioVisib le(ByVal iIndex As Integer, ByVal Index As Integer)		Event which is raised when the pfRadioVisible property changes
Event	ChangeVisible(By Val Index As Integer)		Event which is raised when the pfVisible property changes
Read only property	pcItem(ByVal Index As Integer)	HRadios	Returns an object reference to the specified HRadios object
Read only property	psName()	String	Returns the name of the object
HSingleTab	CI		In a second of the second
Event	ChangeEnabled()		Event which is raised when the pfEnabled property changes
Event Read only property	ChangeVisible()	Ohior	Event which is raised when the pfVisible property changes
Read only property	pcParent()	Object	Returns a reference to the parent object of this object. If this reference is Nothing this object is the topmost object

			within the object hierarchy (normally the HWindow
	25	_	object of the associated dialog)
Read only property	pfControlAvail()	Integer	Returns a value which specifies whether the object can be controlled by the client programmer (This is dependent on the pfVisible and pfEnabled properties and those of its parent)
Read only property	pfEnabled()	Integer	Returns a value which specifies whether the object is enabled
Read only property	pfVisible()	Integer	Returns a value which specifies whether the object is visible
Read only property	psName()	String	Returns the name of the object
Read/write property	psCaption()	String	Sets or returns the text which is used to label the associated control
Sub	pRegEvent(ByVal sEvent As String, ByVal fBasicEvent As Integer)		Should not be used by clients! (Registers an event to the error handler)
HTab			
Event	ChangeEnabled()		Event which is raised when the pfEnabled property changes
Event	ChangeNoEntries()		Event which is raised when the piNoEntries property changes
Event	ChangeTab()		Event which is raised when the piTab property changes
Event	ChangeTabEnable d(ByVal iTab As Integer)		Event which is raised when the pfTabEnabled property changes
Event	ChangeTabVisible (ByVal iTab As Integer)		Event which is raised when the pfTabVisible property changes
Event	ChangeVisible()		Returns a value which specifies whether the object is visible
Read only property	pcParent()	Object	Returns a reference to the parent object of this object. If this reference is Nothing this object is the topmost object within the object hierarchy (normally the HWindow object of the associated dialog)
Read only property	pcSingleTab(ByVa 1 iTab As Integer)	HSingleT ab	a reference to the HSingleTab object associated to the specified Tab
Read only property	pfControlAvail()	Integer	Returns a value which specifies whether the object can be controlled by the client programmer (This is dependent on the pfVisible and pfEnabled properties and those of its parent)
Read only property	pfEnabled()	Integer	Returns a value which specifies whether the object is enabled
Read only property	pfTabEnabled(By Val iTab As Integer, Optional DoEvent As Variant)	Integer	Returns a value which specifies whether the specified HSingleTab object is enabled
Read only property	pfTabVisible(ByV al iTab As Integer, Optional DoEvent As Variant)	Integer	Returns a value which specifies whether the specified HSingleTab object is visible
Read only property	pfVisible()	Integer	Returns a value which specifies whether the object is visible
Read only property	piNoEntries()	Integer	Returns the number of entries of the object
Read only property	piSetValue(ByVal	Integer	Returns the value of a specified option index (Not
Read only property	iTab As Integer) piTabFromValue(ByVal iValue As	Integer	necessarily the current one) Returns the Tab index from a specified value
	Integer)		

Read only property	psCaption()	String	Sets or returns the text which is used to label the associated control
Read only property	psName()	String	Returns the name of the object
Read only property	psSetKeyValue(By	String	Returns the key value of a specified Tab index (Not
	Val iTab As		necessarily the current one)
	Integer)		
Read/write property	piTab(Optional	Integer	Sets or returns the index of the currently selected Tab
	DoEvent As		
	Variant, Optional		
	IgnoreDisable As		
	Variant, Optional		
	NoError As		
	Integer)		
Read/write property	piValue(Optional	Integer	Returns the value which is associated with the currently
	DoEvent As		selected Tab
	Variant, Optional		
	IgnoreDisable As		
	Variant, Optional		
	NoError As		
	Integer)		
Read/write property	psKeyValue(Optio	String	Sets or returns the key value of the object. When this
	nal DoEvent As		value is set the Tab with the specified key value is
	Variant, Optional		selected
	IgnoreDisable As		
	Variant, Optional		
	NoError As		
	Integer)		
Sub	pRegEvent(ByVal		Should not be used by clients! (Registers an event to the
	sEvent As String,		error handler)
	ByVal fBasicEvent		
TTXX/* . 1 .	As Integer)		

HWindow

Event	ActivateWindow()	Event which is raised when the associated window is
Event	BeforeWindowVis ible()	activated Event which is raised before the associated Window is shown on the screen
Event	ChangeEnabled()	Event which is raised when the pfEnabled property changes
Event	ChangeUserIF()	Event which is raised when the pfUserIF property changes
Event	ChangeVisible()	Event which is raised when the pfVisible property changes
Event	CloseWindow(By Ref Cancel As Integer, ByVal Mode As Integer)	Event which is raised when the window is closed
Event	KeyDownWindow (ByVal KeyCode As Integer, ByVal Shift As Integer)	Event which is raised when a key is pressed on the window
Event	MouseDown(ByV al Button As Integer, ByVal Shift As Integer, ByVal iX As Integer, ByVal iY As Integer)	Event which is raised when the mouse is pressed on the window
Event	MouseMove(ByVa 1 Button As Integer, ByVal Shift As Integer,	Event which is raised when the mouse moves on the window

Γ	1	T	
	ByVal iX As		
	Integer, ByVal iY		
	As Integer)		
Event	MouseUp(ByVal		Event which is raised when the mouse is released on the
	Button As Integer,		window
	ByVal Shift As		
	Integer, ByVal iX		
	As Integer, ByVal		
	iY As Integer)		
Event	NowWindowVisib		Event which is raised after the associated Window is
	le()		shown on the screen
Event	ResizeWindow()		Event which is raised when the window is resized
Read only property	pcParent()	Object	Returns a reference to the parent object of this object. If
		, and the second	this reference is Nothing this object is the topmost object
			within the object hierarchy (normally the HWindow
			object of the associated dialog)
Read only property	pfControlAvail()	Integer	Returns a value which specifies whether the object can
read and property	F()		be controlled by the client programmer (This is
			dependent on the pfVisible and pfEnabled properties and
			those of its parent)
Read only property	pfEnabled()	Integer	Returns a value which specifies whether the object is
reductionly property	pilmaoled()	meger	enabled
Read only property	pfWindowSizable(Integer	Returns a value which defines whether the associated
reductionly property	pr w mao w sizabie(integer	window is sizeable
Read only property	piClientAreaXOffs	Integer	Returns a value which defines the offset of the windows
Read only property	et()	integer	client from the window in x-direction in pixels
Read only property	piClientAreaYOffs	Integer	Returns a value which defines the offset of the windows
Read only property	et()	integer	client from the window in y-direction in pixels
Read only property	plHWnd()	Long	Returns the associated windows window handle. If there
Read only property	pirrwiid()	Long	is no associated windows this handle is zero
Dood only managery	maNama()	Ctuina	
Read only property	psName()	String	Returns the name of the object Returns the name of the class to which the window
Read only property	psOwnerClass()	String	
D - 1/	(III. 1. F()	T	belongs Sets or returns a value which defines whether the
Read/write property	pfHideForm()	Integer	associated window should be hided, the associated
			window is neither unloaded nor the event CloseWindow
			is raised. This property can be used to temporarily hide a
D 1/ '-	CD (XXI 1	т.,	window without unloding it
Read/write property	pfRestoreWindow	Integer	Sets or returns a value which defines whether the
	Pos()		window position, its size and window state is restored
			when the window is displayed again after it has been
D 1/	CT TO	*	closed
Read/write property	pfUserIF()	Integer	Sets or returns a value which defines whether the
			associated window should be shown on screen. A
			window is only displayed under the following condition:
			pfUserIF=TRUE, pfVisible=TRUE,
			pfHideForm=FALSE
Read/write property	pfVisible()	Integer	Returns a value which specifies whether the object is
	12.1	_	visible
Read/write property	plColor()	Long	Sets or returns the clolor of the associated window
Read/write property	plHWndParentWin	Long	Returns the window handle of the parent window of this
	dow()		window. If this window is a standalone window this
			handle is zero.
Read/write property	psCaption()	String	Sets or returns the text which is used to label the
			associated control
Read/write property	psPicture()	String	Sets or returns the file name of a bitmap image which is
			displayed on this window. The followinf formats are
			supported: BMP, ICO, CUR, RLE, WMF, EMF, GIF,
			JPG
Read/write property	psTag()	String	Sets or returns the Tag property of this object. The Tag
			property can be used to communicate with the associated
	1		

			window (internal use only)
Function	piGetWindowPosit	Integer	A method which returns the associated windows
	ion(ByRef iX As		position, size and window state. Only valid when
	Integer, ByRef iY		pfVisible=TRUE and pfUserIF=TRUE
	As Integer, ByRef		1
	iDX As Integer,		
	ByRef iDY As		
	Integer, ByRef		
	iWindowState As		
	Integer)		
Function	piSetWindowPositi	Integer	A method which sets the associated windows position,
	on(ByVal iX As		size and window state. Only valid when
	Integer, ByVal iY		pfVisible=TRUE and pfUserIF=TRUE
	As Integer, ByVal		
	iDX As Integer,		
	ByVal iDY As		
	Integer, ByVal		
	iWindowState As		
	Integer, ByVal		
	fCheckPosition As		
	Integer)		
Sub	pActivateMainWin		Method which activates the associated window
	dow()		
Sub	pClose(ByRef		Method which closes the associated window
	Cancel As Integer,		
	ByVal iMode As		
	Integer)		
Sub	pRegEvent(ByVal		Should not be used by clients! (Registers an event to the
	sEvent As String,		error handler)
	ByVal fBasicEvent		
	As Integer)		
Sub	pSetFocus()		Method which sets the focus to the associated window.
			Works only if the associated window is visible on screen
HLut			
Event	AutoLUT(ByRef		Event which is raised when the user presses the
	Cancel As Integer)		AutoLUT key
Event	ChangeEnabled()		Event which is raised when the pfEnabled property
			changes
Event	ChangeVisible()		Event which is raised when the pfVisible property
	8		changes
Event	CursorsChanged(B		Event which is raised when either of the two LUt cursors
	yVal LowerCursor		have been changed
	As Long, ByVal		
	UpperCursor As		
	Long)		
Event	LimitsChanged(By		Event which is raised when the the LUT limits changes
	Val iSize As		
	Integer)		
Event	LowerCursorChan		Event which is raised when the lower cursor changes
	ged(ByVal		
	LowerCursor As		
	Long)		
Event	Resize()		Event which is raised when the LUT control is resized
Event	UpperCursorChan		Event which is raised when the upper cursor changes
Lvent	ged(ByVal		111
	UpperCursor As		
	Long)		
Read only property	pcParent()	Object	Returns a reference to the parent object of this object. If
, , , , , , , , , , , , , , , , , , ,			this reference is Nothing this object is the topmost object
			within the object hierarchy (normally the HWindow
			object of the associated dialog)
	<u> </u>		

Read only property	pfControlAvail()	Integer	Returns a value which specifies whether the object can be controlled by the client programmer (This is dependent on the pfVisible and pfEnabled properties and
			those of its parent)
Read only property	pfEnabled()	Integer	Returns a value which specifies whether the object is enabled
Read only property	pfVisible()	Integer	Returns a value which specifies whether the object is visible
Read only property	piLUTSize()	Integer	Returns a value which specifies the LUTSize. Possible values are defined in the enumeration LUTSize
Read only property	plMinCursorDiff()	Long	Returns the minimum difference between lower and upper value (cursor)
Read only property	plMult()	Long	For 16x LUT types the data specified and displayed with the LUT tool have to bee multiplied by plMult to get the values valid for image data
Read only property	psName()	String	Returns the name of the object
Read/write property	piAutoOption()	Integer	·
Read/write property	plLowerValue()	Long	Sets or returns a value which defines the lower value (lower cursor) of the object
Read/write property	plUpperValue()	Long	Sets or returns a value which defines theupper value (upper cursor) of the object
Read/write property	psCaption()	String	Sets or returns the text which is used to label the associated control
Sub	pRegEvent(ByVal sEvent As String, ByVal fBasicEvent As Integer)		Should not be used by clients! (Registers an event to the error handler)
Sub	pSetAuto()		Method which executes the Auto LUT function
Sub	pSetCursors(ByVa l lLowerValue As Long, ByVal lUpperValue As		Method which sets both values, upper and lower value (cursor)
	Long)		

HImageArea

Event	ChangeCenter()		Changes the zoom center of the image
Event	ChangeEnabled()		Event which is raised when the pfEnabled property
			changes
Event	ChangeVisible()		Event which is raised when the pfVisible property
			changes
Event	ChangeZoom()		Event which is raised when the zoom factor of the image
			changes
Read only property	pcParent()	Object	Returns a reference to the parent object of this object. If
			this reference is Nothing this object is the topmost object
			within the object hierarchy (normally the HWindow
			object of the associated dialog)
Read only property	pfControlAvail()	Integer	Returns a value which specifies whether the object can
			be controlled by the client programmer (This is
			dependent on the pfVisible and pfEnabled properties and
D 1 1	Ø5 11 10	-	those of its parent)
Read only property	pfEnabled()	Integer	Returns a value which specifies whether the object is
D 1 1	CT7: '1.1. ()	T .	enabled
Read only property	pfVisible()	Integer	Returns a value which specifies whether the object is visible
Pand only property	piPRFDirection()	Integer	1-2-2-2
Read only property	piPKrDirection()	Integer	Sets or returns a value which defines the quick profile direction. Possible values are HORINTEGRPROFILE
			and VERINTEGRPROFILE
Read only property	plHWndImageAre	Long	Window handle of the window where the image is
Read only property	a()	Long	displayed
Read only property	psName()	String	Returns the name of the object
Read/write property	pftZoom()	Single	Sets or returns the current zooming factor of the image
Keau/write property	prizonii()	Siligie	Sets of returns the current zoonning factor of the image

Read/write property	piROIType()	Integer	Sets or returns a value which defines the ROI Type. Possible values are defined in the enumeration ROIType
Read/write property	psCaption()	String	Sets or returns the text which is used to label the associated control
Sub	pEnlargeROI(ByV		Enlarges the ROi in the specified direction. Possible
240	al fDirection As		values are defined in the enumeration EnlargeDirection
	Integer)		various are defined in the chameration Emarge processor
Sub	pGetareImgToDisp		Returns the area of the displayed image
Suo	lay(ByRef iX As		rectains the area of the displayed image
	Integer, ByRef iY		
	As Integer, ByRef		
	iDX As Integer,		
	ByRef iDY As		
	Integer)		
Sub	pGetareROI(ByRe		Returns the ROI area
Suo	f iX As Integer,		retains the rest area
	ByRef iY As		
	Integer, ByRef		
	iDX As Integer,		
	ByRef iDY As		
	Integer)		
Sub	pGetftpntCenter(B		Returns the zooming center point
Sub	yRef X As Single,		Returns the Zooming center point
	ByRef Y As		
	Single)		
Sub	pGetpntPicWindo		Returns the size of the window which is used to display
Sub	w(ByRef X As		the image
	Integer, ByRef Y		the image
	As Integer)		
Sub	pGetpntWindow(B		Returns the size of the window which is used to display
Sub	yRef X As Integer,		the image including scroll bars and empty area (if any)
	ByRef Y As		the image meruting seron bars and empty area (if any)
	Integer)		
Sub	pGetwndROI(ByR		Returns the window size and location which corresponds
Suo	ef Bottom As		the the ROI
	Integer, ByRef		the the Rot
	Left As Integer,		
	ByRef Right As		
	Integer, ByRef Top		
	As Integer)		
Sub	pLetareROI(ByVal		Sets the ROI area
Sub	iX As Integer,		Sets the Rot area
	ByVal iY As		
	Integer, ByVal		
	iDX As Integer,		
	ByVal iDY As		
	Integer)		
Sub	pLetftpntCenter(B		Sets the zooming center point
	yVal X As Single,		Sets the Essening context point
	ByVal Y As		
	Single)		
Sub	pRegEvent(ByVal		Should not be used by clients! (Registers an event to the
~ 40	sEvent As String,		error handler)
	ByVal fBasicEvent		VII of Immuloi)
	As Integer)		
HEditString4Ar	•	ļ	
Event	ChangeEnabled(B		Event which is raised when the affinehled arenarty
Event	yVal Index As		Event which is raised when the pfEnabled property changes
	Integer)		Changes
Event	ChangeText(ByVa		Event which is raised when the neTest moments show and
Event	1 Index As Integer)		Event which is raised when the psText property changes
	1 muca As mieger)	<u> </u>	

		ı	
Event	ChangeVisible(By		Event which is raised when the pfVisible property
	Val Index As		changes
	Integer)		
Read only property	pcItem(ByVal	HEditStri	Returns an object reference to the specified HCommand
	Index As Integer)	ng	object
Read only property	psName()	String	Returns the name of the object
HWindow20Arr	· · ·		
Event	ActivateWindow(Event which is raised when a window is activated
Lvent	ByVal Index As		Event which is faised when a window is activated
	Integer)		
Event	BeforeWindowVis		Event which is raised before window is visible
Event	ible(ByVal Index		Event which is faised before whidow is visible
	As Integer)		
Event	ChangeEnabled(B		Event which is raised when the pfEnable property
Event	yVal Index As		changes
	Integer)		Changes
Event	ChangeUserIF(By		Event which is raised when the pfUserIF property
Event	Val Index As		
			changes
Event	Integer)		Event which is raised when the of Visible manager.
Event	ChangeVisible(By Val Index As		Event which is raised when the pfVisible property
			changes
F4	Integer) CloseWindow(By		Event which is raised when the Window is closed
Event	` •		Event which is raised when the window is closed
	Val Index As		
	Integer, ByRef		
	Cancel As Integer,		
	ByVal Mode As		
F4	Integer)		Frank - 1.1.1.1. and - 1.1.1. and - 1.1.1.
Event	KeyDownWindow		Event which is raised when a key is pressed on the
	(ByVal Index As		window
	Integer, ByVal		
	KeyCode As		
	Integer, ByVal		
Т	Shift As Integer)		
Event	MouseDown(ByV al Index As		Event which is raised when the mouse is pressed on the
			window
	Integer, ByVal		
	Button As Integer,		
	ByVal Shift As Integer, ByVal iX		
	As Integer, ByVal		
Exant	iY As Integer)		Event which is raised when the mouse is moved on the
Event	MouseMove(ByVa 1 Index As Integer,		window
	ByVal Button As		WINGOW
	Integer, ByVal		
	Shift As Integer,		
	ByVal iX As		
	Integer, ByVal iY		
	As Integer)		
Event	MouseUp(ByVal		Event which is raised when the mouse is released on the
LVCIII	Index As Integer,		window
	ByVal Button As		WINGOW
	Integer, ByVal		
	Shift As Integer,		
	ByVal iX As		
	Integer, ByVal iY		
	As Integer)		
Event	NowWindowVisib		Event which is raised when the window is getting visible
Z voiit	le(ByVal Index As		2. on which is ruised when the window is getting visible
	Integer)		
	integer)	l .	

Event	ResizeWindow(By		Event which is raised when the window is resized
	Val Index As		
	Integer)		
Read only property	pcItem(ByVal	HWindow	Returns an object reference to the specified HWindow
	Index As Integer)		object
Read only property	psName()	String	Returns the name of the object

IHCall2Appl

Function	lGetMainColor()	Long	Returns the applications main color
Function	lhWndClientWind ow()	Long	Returns the handle to the applications client area window
Function	lhWndMainWindo w()	Long	Returns the handle to the applications main window
Sub	AutoActionAfterA cq()		Executes auto action after acquisition
Sub	AutoActionBefore Acq(ByVal fDisableAutoInqui ry As Integer)		Executes auto action before acquisition
Sub	DisablePanelMess age(ByVal fDisablePanelMess age As Integer)		Enables or disables the panel message on the applications window
Sub	EnableMainWindo w(ByVal fEnabled As Integer)		Enables or disables the applications main window
Sub	EnableSequenceCo ntrols(ByVal fEnable As Integer)		Enables or disables the sequence controls on the applications window
Sub	GetImageScaling(ByVal iImg As Integer)		Assigns image scaling information to the current image according the current system scaling
Sub	GetImageStatus(B yVal iImg As Integer, ByVal fIncludeCameraSta tus As Integer)		Assigns image status information to the current image according the current status
Sub	SetMainColor(By Val lMainColor As Long)		Sets the applications main window color

IHCall2Cam

Function	CameraHasMecha nicShutter()	Integer	Returns an flag which defines whether the camera has a mechanical shutter
Function	fAcqCanBeStoppe d()	Integer	
Function	iAcqModeForPCT est()	Integer	
Sub	AbortCamera()		Aborts the current camera image acquisiton
Sub	AbortCameraSingl eExp()		Aborts a single exposure of the camera
Sub	AboveThresholdC alculated(ByVal iAcqMode As Integer, ByVal sString As String)		Indicates that the value above threshold has been calculated
Sub	CameraSuitableFor Backsub()		Returns an flag which defines whether the camera is suitable for background subtraction
Sub	ChangeAcqMode(ByVal iAcqMode As Integer)		Indicates that the current AcqMode has changed

Sub	EnableCameraEnd	Enables or disables the cameras end response
	Response(ByVal	
	fEnable As	
	Integer)	
Sub	ExternalTriggerEla	Indicates that an external trigger ha s been elapsed
	psed(ByVal	
	iAcqMode As	
	Integer, ByVal	
	lElapsed As Long)	
C1-		Cata the atom atotics of the assures
Sub	GetStopStatus(By	Gets the stop status of the camera
	Ref ftExpTime As	
	Single, ByRef	
	iTrigger As	
	Integer, ByRef	
	iExpStatus As	
	Integer)	
Sub	IndicateProgress(B	Indicates the progress of an acquisition
~ ~ ~	yVal iAcqMode	
	As Integer, ByVal	
	ftPercent As	
	Single, ByVal	
~ .	sOut As String)	
Sub	Message(ByVal	Indicates a message
	iAcqMode As	
	Integer, ByVal	
	sMessage As	
	String)	
Sub	RestoreAcqControl	Restore the live mode controls to its initial values
Suc	s(ByVal	(Which had been present before SetLiveControlsToPC)
	iAcqMode As	(which had been present before settive condois for e)
C 1	Integer)	Sets the live mode controls to the values which exists in
Sub	SetAcqControlsTo	
	PC(ByVal	photon counting mode
	iAcqMode As	
	Integer)	
Sub	SetBackgroundPar	Set the camera to values which are used for background
	ms(ByVal iSet As	subtraction
	Integer, ByVal	
	sCameraSection	
	As String, ByVal	
	INrExposures As	
	Long, ByVal	
	ftExposureTime	
	As Single, ByVal	
	fDoCloseMechanic	
	Shutter As Integer)	
Sub	SetCamDlgVisible	Sets the camera dialog to visible
	(ByRef iPrevState	
	As Integer)	
Sub	SetClearFBOnStart	
	(ByVal	
	fClearFBOnStart	
	As Integer, ByVal	
	iAcqMode As	
	Integer)	
Sub	StartCamera(ByVa	Starts the camera
	l iMode As	
	Integer, ByVal	
	fWait As Integer)	
Sub	StopCamera(ByVa	Stops the camera
	l fWait As Integer)	Stops are carried
	11 11 an As integer)	

CI.	C:4-1-OCOTOCO	1	Conitate of affirmation about
Sub	SwitchOffRTBS()		Switched off real time backsub
Sub	SynchronizeCamer		Synchronize the camera. As a result a new image should
	a(ByVal		be started now
	ftExposureTime		
~ .	As Single)		
Sub	UpdateCameraPar		Informs the HAcq object about the current camera
	ms()		parameters relevant for acquisition
IHCall2Exttrig			
Sub	DoExtExposure(B		Executes an extrenal exposure
	yVal ftExpTime		
	As Single)		
Sub	EndTrig()		Ends a trigger
Sub	SetupExtTrig(ByV		Setup external triggering
	al iMode As		
	Integer, ByVal		
	fPolarityPositiv As		
	Integer, ByVal		
	ftInterval As		
	Single)		
Sub	StartTrig()		Starts an extrnal trigger
IHCall2Licence			0.00
Function	fLicenceForAcquis	Integer	Returns a flag which defines whether a licence for
1 unction	ition()	Integer	acquisiton is present
Function	fLicenceForSave()	Integer	Returns a flag which defines whether a licence for Save
Tunction	iLicencerorsave()	integer	is present
IIIC-UALIE			is present
IHCall2UserFur		1	
Sub	UserFunction(ByV		Executes user function
	al iIndex As		
	Integer, ByVal		
	fAppendOutString		
	As Integer, ByVal		
	fGetMemoryPrope		
	rties As Integer,		
	Optional fStop As		
	Variant, Optional		
	sOutBack As		
	Variant)		
IHCall2LUTCon	ntrol		
Sub	GetLUTSizeAndC		Returns the LUT size and color
	olor(ByRef		
	iLutSize As		
	Integer, ByRef		
	iLutColor As		
	Integer)		
Sub	GetLUTValues(By		Returns the LUT values
	Ref lLower As		
	Long, ByRef		
	lUpper As Long,		
	ByRef lMult As		
	Long)		
Sub	SetAuto()		Executes Auto LUT
Sub	SetHistogram(ByR	Long,	Sets the histogram
	ef lHistogram()	ByVal	
		iHistogra	
		mSize As	
		Integer,	
		ByVal	
		iHistogra	
		mBinsize	
		As	

		Integer, ByVal iHistogra mDivideF actor As Integer, ByVal INrHistog ramPixels As Long)	
Sub	SetZeroLower(By Val fZeroLower)		
Sub	UpdateLUTFromI mage(ByVal iImg As Integer, ByVal fDisplay As Integer)		Sets the LUT parameters valid in the current image
IHCall2Sequenc	P		

IHCall2Sequ	uence		
Function	fPSeqGetMask(By Val sFile As String, ByRef sMask As String, ByRef lNr As	Integer	Gets the mask string for the specified filename
	Long, ByRef iPrf As Integer)		
Function	fSeqDisplaySampl ePlus1()	Integer	Displays the previous sample
Function	iCorrDirection()	Integer	Returns the correction direction
Function	iProfileNo()	Integer	Returns the profile number
Function	iSeqProcessing()	Integer	Returns the sequence processing mode
Function	SeqGetCurrentSam ple()	Long	Returns the current sample
Sub	CheckAutoFixpoin t(ByVal fAutoFixpoint As Integer)		Sets the checkbox value for Auto Fixpoint
Sub	CheckExcludeSam ple(ByVal fExcludeSample As Integer)		Sets the checkbox value for Exclude Sample
Sub	PSeqCheckAndLo ad1stProfile(ByVal sFullName As String)		Executes check and load first profile
Sub	SeqDisplayFirstSa mple()		Displays the first sample
Sub	SeqDisplaySample (ByVal lNr As Long)		Displays the specified sample
Sub	SeqSingleAcqEnde d(lC As Long)		
Sub	SetProfileAnalysis ()		Shows the profile analysis window
Sub	ValueExcludedSa mples(ByVal lExcludedSamples As Long)		Returns the number of excluded samples
Sub	ValueFixPoint(By Val ftFixPoint As Single)		Returns the number of fix points
Sub	ValueMeanProcess		Returns the mean value calculated during processing

	ing(ByVal ftMean		
Sub	As Single) ValueSDProcessin		Detume the standard deviation calculated during
Sub	g(ByVal ftSD As		Returns the standard deviation calculated during
	Single)		processing
Sub	ValueUndefinedSa		Returns the number of undefined samples
	mples(ByVal		retains the named of undermed samples
	lUndefinedSample		
	s As Long)		
Sub	ValueValidSample		Returns the number if valid samples
	s(ByVal		-
	lValidSamples As		
	Long)		
IHCall2AcqCon		T-	In the second se
Function	iAcqControl()	Integer	Returns a flag which defines the current acquisiton control. Possible values are defined in the enumeration
			AcqControl
Sub	SetAcqControl(By		Sets a flag which defines the current acquisiton control.
Suo	Val iAcqControl		Possible values are defined in the enumeration
	As Integer)		AcqControl
IhCall2ExtDevs	115 Integer)	l	110000000
Function	fSystemCanClose	Integer	Returns a value which defines whether the system can be
1 unction	Automatically(By	integer	closed automatically
	Ref		
	sDevicesClosed As		
	String)		
Function	iPostTriggerTime()	Integer	Returns the post trigger time
Function	TriggerSetup(ByV	Integer	Executes trigger setup
	al lTriggerCount		
	As Long)		
Function	TriggerStatus(ByR	Integer	Returns the trigger status
	ef fFinished As		
	Integer, ByRef lCountsExecuted		
	As Long)		
Function	TriggerStop()	Integer	Stops the current triggering
Sub	CloseSystem(ByV	meger	Closes the whole system. This can include mechnical
Sub	al iClose As		shutter spectrograph slit and MCP gain
	Integer)		shatter spectrograph she and treet gain
IhCall2Shutdow	•	l.	
Sub	ShutDown()		Executes shutdown of the system
IHCall2TransAl			
Sub	CloseShutters()		Closes the shutters
Sub	OpenShutters()		Opens the shutters
IHCall2MC			•
Function	SetMC(ByVal	Integer	
	iMC As Integer)		
HProfileScaling			
Read only property	pftScale()	Single	Returns the scaling factor
Read only property	pftValue(iEntry As	Single	Returns the value of a given index
	Integer, Optional		
D 1 1	sError As Variant)	T .	
Read only property	piType()	Integer	Returns the type (linear/table)
Read only property	psOrigin()	String	Returns the scaling origin
Read only property	psScalingFile()	String	Returns the scaling file name
Read only property Function	psUnit()	String	Returns the unit Swaps the scaling and profile data in case the scaling is
1 uncuon	gfCheckSwapScali ng()	Integer	Swaps the scaling and profile data in case the scaling is descending
Function	pfCreateDiffPoyno	Single,	Create differential polynomial
- 571771711	I FI CI CHICE IIII O JIIO	~5.0,	william boiling

	mial(ByVal iOrder	ByVal	
	As Integer, ByRef	iNrValidC	
	ftCoeff()	hannels	
		As	
		Integer,	
		ByVal	
		sUnit As	
		String,	
		Optional	
		sError As	
		Variant)	
Б .:	CC + I + D	As Integer	
Function	pfCreateIntegPoyn	Single,	Create integral polynomial
	omial(ByVal	ByVal	
	iOrder As Integer,	iNrValidC	
	ByRef ftCoeff()	hannels	
		As	
		Integer,	
		ByVal	
		sUnit As	
		String,	
		Optional	
		sError As	
		Variant)	
E	and Cont A amount Of Violen	As Integer	Determs on amore of realises
Function	pfGetArrayOfValu	Single,	Returns an array of values
	es(ByRef ftArray()	ByVal	
		iEntries	
		As	
		Integer,	
		Optional	
		sError As	
		Variant)	
		As Integer	
Function	pfReadScalingTabl	Integer	Reads a scaling table from file
	e(ByVal	integer	Troubs w searing there from the
	sFileName As		
	String, ByVal		
	sOffset As String,		
	ByVal fCheck As		
	Integer, ByVal		
	sUnit As String,		
	Optional sError As		
	Variant, Optional		
	varCheckFromCha		
	nnel As Variant)	<u></u>	
Function	pfSetLinearData(B	Integer	Sets linear scaling
	yVal ftScale As		
	Single, ByVal		
	sUnit As String,		
	Optional sError As		
	Variant)		
Eumotics			Cote the cooling date of this shire tide of the first ideal of the fir
Function	pfSetScaling(ByRe		Sets the scaling data of this object identical to the data of
	f psd As		the specified object
	HProfileScalingDa		
	ta, Optional sError		
	As Variant)		
Function	pfSetTableData(By	Single,	Sets table scaling
	Ref ftTable()	ByVal	_
	, v	iEntries	
		As	
L	<u> </u>	i	ı

location (floating point)
location (floating point)
ther or not the value at the specified
and of not the value at the specifies
um number of entries
ata to file
aling info
maximum value
corresponding to the given location
a of this object to the values of the
t la

HPRFParametersData

HPRFParamete:	IsData		
Read only property	pfDisplay()	Integer	Defines whether the specified profile is displayed
Read only property	pfExist()	Integer	Defines whether the specified profile exists
Read only property	pftMinGreaterZero ()	Single	Returns the smalles value > 0
Read only property	piNrData()	Integer	Returns the number of data
Read only property	piType()	Integer	Returns the type of a profile
Read only property	plColor()	Long	Returns the color of a profile
Read only property	ppsdScaling()	HProfileS calingDat a	Returns the associated HProfileScalingData
Read only property	psImgStatusShort()	String	Returns the associated status
Read/write property	pftData(ByVal iData As Integer, Optional sError As Variant)	Single	Returns a single data value
Function	pfGetArrayOfData (ByRef ftData()	Single, ByVal iNrData As Integer, Optional sError As Variant) As Integer	Returns an array of data
Function	pfLoadPRF(ByRef sCompleteFile As String, ByVal fInquireFileName As Integer, ByRef sMessage As String, ByVal fReadData As Integer)	Integer	Loads a profile from file
Function	pfSearchValue(By Val fScaled As Integer, ByVal iStartIndex As Integer, ByVal iEndIndex As Integer, ByVal iStep As Integer, ByVal ftSearchVal As Single, ByRef ftScaledValue As Single)	Integer	Searches a value within a profile
Function	pftProfileLocation FT(ByVal fScaled As Integer, ByVal ft As Single)	Single	Returns the location within a profile (floating point)
Function	pftProfileLocationI NT(ByVal fScaled As Integer, ByVal i As Integer)	Single	Returns the location within a profile (integer)
Sub	pCalcProfileDef(B yVal fDisplayScaled As Integer)		Calculate profile default values
Sub	pCheckSwapProfil e()		Check whether the profile and the scaling data has to be swapped
Sub	pFitGetPDWDefau		Get the profile display window

	lt(ByVal fAbs As	
	Integer)	
Sub	pfSetHPRFParame	Set all data associated with this profile to identical to the
	tersData(ByRef	specified profile
	ppd As	
	HPRFParametersD	
	ata)	
Sub	pGetMinAndMax(Returns minimum and maximum values
	ByVal iLower As	
	Integer, ByVal	
	iUpper As Integer,	
	ByRef ftMin As	
	Single, ByRef	
	ftMax As Single)	
Sub	pGetSingleMinMa	get the minimum and maximum positions
	xPos(ByVal iFirst	
	As Integer, ByVal	
	iLast As Integer,	
	ByRef iMinPos As	
	Integer, ByRef	
	iMaxPos As	
	Integer)	
Sub	pProfileLocationT	Returns the Value at a specified location
	oValue(ByVal	
	ftLocation As	
	Single, ByRef	
	iIndex As Integer,	
	ByRef ftIndex As	
	Single, ByRef	
	ftValue As Single,	
	ByVal	
	fDisplayScaled As	
	Integer)	

Sample programs

The following samples are instructive programs to show how the HiPic/HPD-TA remote control can be operated in principle. One intention of these sample programs was to provide a running client program performing some demonstrating tasks from the beginning. When creating these samples there was no intention to solve any individual tasks optimal. The client programmer is encouraged to improve the functions according to his needs. Many of the functions do not function under all conditions. The samples are not intended to "replace" the full functionality of the standalone products. Any client program made for a real application may add smaller or larger portions of code and modify existing functions. It may be recommendable after using the client program to learn how to program the component to start a new project and writing every line newly. The samples are written in Visual Basic 6.0. Though client programs can be written in every language it is especially easy to write them in Visual Basic and it is recommended to do so at least when learning how to operate the component.

A feature described in one sample program which appears in another sample is not described a second time. Therefore the client programmer should read the explanation of all samples to understand the meaning of all features.

The most common case is to use an ActiveX-DLL. Therefore the first two samples show how to use the components for the HiPic and the HPD-TA. The project names of both client programs are CltHiDll and CltTaDll.

Before starting the client program it is recommended to start the standalone program and set all parameters correctly to run it (Especially the frame grabber and camera should be specified correctly). Do not run standalone program and client program at the same time (To do so special knowledge is necessary). The sample programs are made in a way so that they use the standard ini file where all these settings are stored.

If you use ActiveX components the working directory of the client program is important to find other DLLs. Most of the DLLs the component needs however are located in the Components application directory (This is the directory where the HiPic32u.exe, HiPic32u.dll or HPDTA32u.exe, HPDTA32u.dll are located). To avoid any problem it is recommended to copy the sample code into this directory. Also the working directory for the Visual Basic 6.0 should be changed to this directory. Then the program will also run in debug mode. Alternatively you can use the PATH statement to make sure that all DLLs can be located correctly.

Sample program CltHiDll and CltTaDll

CltHiDll and CltTaDll are sample programs showing how to use the functionality of the HiPic or HPD-TA within another application running on the same computer with the freedom of using or not using the User I/F provided by the HiPic/HPD-TA.

The sample programs CltHiDll and CltTaDll are using the ActiveX-DLL components of the HiPic or the HPD-TA. They can be run as soon as the HiPic or HPD-TA is installed (Version 6.3 is necessary). The installation registers the ActiveX-DLL into the system registry. If -for some reason- this has not been done properly you can do this with the regsvr32.exe utility which should exist in you systems directory but which is also provided with the HiPic/HPDTA setup for savety.

Basic structure of CltHiDll and CltTaDll

The sample programs CltHiDll and CltTaDll contain two forms, one standard module and two class modules. The forms are used during initialization (FormInit) and program execution (FormMain). The standard module contains the main routine Sub Main which start the component and sets up the client program. The class module HiInit or TaInit handles the operation of startup, the class modules HiMain or TaMain handles the execution of code during program operation.

Startup

The startup is done in the routine Sub Main

```
Sub Main()
   Dim HiInit As HiInit
   Dim fSuccess As Integer
   Dim sError As String
    Set HiInit = New HiInit
   HiInit.pfClientEvent = True
    Set gHAppHiPic = HiInit.pcStartHiPic(fSuccess, sError)
   HiInit.pfClientEvent = False
    If (Not fSuccess) Then
        MsgBox "Error loading the ActiveX component HiPic32u. " + sError
        Set HiInit = Nothing
        Exit Sub
    End If
   Set HiInit = Nothing
    Set gHiMain = New HiMain
    gHiMain.pfClientEvent = True
    gHiMain.Init gHAppHiPic
    gHiMain.pfClientEvent = False
End Sub
```

The Routine Sub Main creates an object of type HiInit (or TaInit) (see the respective class modules) and calls the function pcStartHiPic (or pcStartHPDTA). In case of success an object of type HiMain (or TaMain) (see again the respective class modules) is created and its Init method is called.

The function pcStartHiPic (or pcStartHPDTA) does the following:

```
Public Function pcStartHiPic(fSuccess As Integer, sError As String) As HAppHiPic
    Dim iError As Integer
    FormInit.Show
    'Create Init object
    Set mHInitHi = New HInitHi
    If (mHInitHi.piStartStatus <> StartStatusNone) Then
        sError = "Component is already in use. Aborted"
        Set mHInitHi = Nothing
        fSuccess = False
        Exit Function
    End If
    'Show init screen virtually: default ini-file, no init UseI/F, no application User I/F, No
Dialogs
    'By specifying an ini file other than "" the client program can initialize the program
with its own data
mHInitHi.piInit "", False, False, True
    'Specify your initializing setting here (in case you didn't do this by your specific ini
file in the last command)
    'The next three lines would set AMD-DIG + VS module and Analog0 camera
    'mHInitTa.pHRadInitFrameGrabber.piValue = IniGrabberIcPciAmVS
    'mHInitTa.pHRadInitCamera.piValue = ANALOG0
```

```
'mHInitTa.pHEstInitConfiFile.psText="c:\ccir.cnf"
    'Start program
    mHInitHi.pHComInitOK.pClick
    'Wait until application created or failed
If (mHInitHi.pfInitStatus >= 0) Then Exit Do
       mfClientEvent = False
        DoEvents
       mfClientEvent = True
   Loop While True
    'Return success status and Application reference
    fSuccess = (mHInitHi.pfInitStatus = InitStatusInitialized)
    If (fSuccess) Then
        Set pcStartHiPic = mHInitHi.pHAppHipic
       sError = msError
    End If
    'Release object reference to HInitHi
    Set mHInitHi = Nothing
    Unload FormInit
End Function
```

The first thing the pcStartHiPic (or pcStartHPDTA) does is to create an object of the type HInitHi (or HInitTa). See:

```
Set mHInitHi = New HInitHi
```

This is the only object of the HiPic or HPD-TA ActiveX component can be created by the client. All other objects are created inside the component and only an object reference is returned as a public reference. This object returns information whether the is already running, whether it is currently in the state of being initialized or whether it is newly created now. See

```
If (mHInitHi.piStartStatus <> StartStatusNone) Then
...
```

Most probably the client program does not like the fact that the program is already running and will exit in such case. In more complicated cases one can program several client programs using the same component. It is not possible to run several instances of the component (lets say with different hardware). The next step is to call

```
mHInitHi.piInit
```

This is equivalent to showing the init dialog on the computers screen (If the parameter fInitUserIF is set to true this really happens). The parameters specified here defines the general behavior of the program. The first parameter specifies the ini file which should be used for data save and restore. If one specifies a null string ("") the default ini file is used (Currently HiPic32r.ini and HPDTA32 r.ini in the windows directory). Therefore parameters set by the standalone application are used by the client program and vice versa (This is recommended for the beginning). Later on you can specify your own ini file which you have to provide by yourself (The easiest way to do so is to start the standalone application, set all parameters, quit it and copy the default ini file to the desired filename). The next two parameters define whether the init dialog and the dialogs of the main program should be shown per default. The last parameter defined whether dialogs should be omitted or not. This parameter should be set to false generally. During development it is recommended to set the parameters fInitUserIF and fApplUserIF to TRUE. Then the dialogs appear on screen and you

can check whether everything you program is executed correctly. After some time you may want to hide the dialogs by setting fInitUserIF and fApplUserIF to FALSE.

To Start the program you just have to click on the init dialogs OK pushbutton. Within a client program this is done by writing:

```
mHInitHi.pHComInitOK.pClick
```

As the startup is an Asynchronous Command we have to wait until it is finished (either successful or not). This is done by the loop:

```
Do

If (mHInitHi.pfInitStatus >= 0) Then Exit Do DoEvents
Loop While True
```

Finally the property

```
mHInitHi.pHAppHipic
```

contains a reference to the application object of the HiPic/HPDTA ActiveX component. Pls. note that this object has been created by the HInitHi (or HInitTa) object and not by the client program.

Initializing of the client program

After the component has been started successfully the client program can be initialized. This is performed in the Init routine of the HiMain object (which has been created previously by the client program). The HiMain object contains many references to objects of the component. One example is the Open menu object. The reference is made by writing:

```
Set mHMenMainOpen = mHAppHiPic.pHMenMainOpen
```

another is the cameras live mode pushbutton object:

```
Set mHComCamLive = mHAppHiPic.pobjHCamera.pHCo4CamLive.pcItem(LIVE)
```

To place a dialog into a window within the client program the plHWndParentWindow is used. In the following code all image windows dialogs are placed as a child window within the PicClientArea picture box of the client program.

Depending on the configuration sometimes an object property returns NOTHING or does not exist at all. The function mfExistSubObject returns an information whether a depend object exist for a given object. In our case this is used to find out whether the camera object has an exposure time property. See

```
mfExposureExist = mfExistSubObject(mHAppHPDTA.pobjHCamera,
"pHEn4CamExposure")
```

Ending the component

The component can be ended easily by

- 1.) Freeing all object references except to the application object
- 2.) Executing

```
mHAppHiPic.piEndProg (or mHAppHPDTA.piEndProg)
```

3.) Releasing the reference to the application object

Executing and availability of commands

Executing of a command is simply done by calling its pClick method. See:

```
mHComCamLive.pClick
```

This executes Live mode. Under certain circumstances a command (or any other control) is not available (this is equivalent to disabled or invisible control within the standalone program). To be sure whether a control is available the sample program calls the mfCheckControlAvail function which uses the pfControlAvail property of the object.

As an example we quote the DoLive function:

```
Public Sub DoLive()
    miAcqMode = LIVE
    'Change to correct TAB
    If Not mfCheckControlAvail(mHAppHiPic.pobjHCamera.pHTabCamAcqMode, "Camera acquisition
tab") Then Exit Sub
    mHAppHiPic.pobjHCamera.pHTabCamAcqMode.piValue = LIVE
    'Set exposure time to LIVE mode because our sample handles only one exposure time
    If (mfExposureExist) Then
        If Not mfCheckControlAvail(mHAppHiPic.pobjHCamera.pHEn4CamExposure.pcItem(LIVE), "Live
mode exposure control") Then Exit Sub
       mHAppHiPic.pobjHCamera.pHEn4CamExposure.pcItem(LIVE).psKeyValue =
FormMain.EditExposureTime.Text
    End If
    'Disable other acquisition commands which are not automatically disabled by the component
    FormMain.CommandAcquire.Enabled = False
    FormMain.CommandSeqStart.Enabled = False
    If Not mfCheckControlAvail(mHComCamLive, "Camera live mode button") Then Exit Sub
    mHComCamLive.pClick
    'Note: The mHComCamLive.pClick should be the last command before exiting the current event
          You should not wait for some event in a loop here (Pls. read the comment on
AsyncCommands in the programmers handbook for details)!
End Sub
```

This function first select the proper Tab on the camera dialog, sets the exposure time (if available) and executes the live mode. All accessed control are checked upon their availability prior to executing them.

Setting the exposure time

The exposure time can be set by a HEntry type object. The exposure time simply can be set by its psKeyValue property. In this case the HEntry object understands and evaluates time units

(like "ms", "s" or "m" which stands for miliseconds, seconds or minutes) and sets the nearest possible value (Normally cameras only accepts distince values). In such cases is is recommended to read back the real value like in the following code example:

```
mHAppHiPic.pobjHCamera.pHEn4CamExposure.pcItem(miAcqMode).psKeyValue =
FormMain.EditExposureTime.Text
FormMain.EditExposureTime.Text =
mHAppHiPic.pobjHCamera.pHEn4CamExposure.pcItem(miAcqMode).psKeyValue
```

Using events

If an object reference is declared with the WithEvents qualifier the client program can get events. See the following declaration:

Private WithEvents mHComCamAcquire As HCommand

One of the events is the

```
Private Sub mHComCamAcquire_ChangeEnabled()
    FormMain.CommandAcquire.Enabled = mHComCamAcquire.pfEnabled
End Sub
```

This event is used to disable the acquire pushbutton on the clients main window (Be careful: a control is available if the control and all its parent controls are visible and enabled. Therefore there might be a case that the parent control gets disabled but the control itself has not raised the Change_Enabled event).

Saving and loading images specifying the filename and type

When a client program wants to save or load images by specifying the filename and its fileype the functions pfSaveImage and pfLoadImage of the HImage Object can be used. The piDefaultImageType property of the HImages object can be used to specify the file type in case of file save (see mSaveImages routine).

Executing image acquisitions and image analysis in one function

Sometimes the client program wants to acquire image data and analyze it then acquire new data change some settings and so on. To perform such kind of operations the sample function mDoMeasurement is provided.

The function does

- 1.) Start image acquisition. The code is same as for other acquisition functions already explained
- 2.) Wait for the completion of the acquisition. Be careful: Basically the component needs all the time to do the acquisition process here. Do not place any other code in such waiting loop. Especially do not output message boxes or other user interaction. If you want to stop the action you can do this from another event (like a timer or pushbutton event).
- 3) Check whether the acquisition operation has been succeeded.
- 4) Get Image, Scaling or profile data and analyze it. The function pGetareSource gets the valid area of the image. The pfGetImageData2Byte function gets 2 Byte data (only useful of the image contains 2 byte data, otherwise you have to use pfGetImageData1Byte or

pfGetImageData4Byte). pfGetArrayOfValues gets scaling data. pfMemGetPRFData gets profile data.

The above can be repeated and parameters like exposure time can be changed at the end of each cycle (this would be item 5.).

Using the HExternalDevices object (HPD-TA only)

The HExternalDevices objects controls the behaviour of all general features of the connected streak camera and related devices. It contains all dialogs related to these dialogs and User I/F objects belonging to these dialogs. It also contains general features like GP-IB base address of the GB-IB board and such general properties. As these properties are defined in the INI file the sample program does not access any of these properties within HExternalDevices (Except the object references to the individual ExternalDevice objects).

Using the HExternalDevice object (HPD-TA only)

The HExternalDevice object contains all features of the individual device. To get a list of all parameters associated to the device the following code is used:

Using the HDevPar object (HPD-TA only)

To get the value of an individual Parameter (HDevPar object) the

```
mHDevPar.psKeyValue
```

can be used. It returns the value in string format (see the GetDevParValue function).

The HDevPar object has different ways of containing data (e.g. a list of entries or an integer number or a floating point number). The sample program uses a simplified way of displaying all these features. It distinguishes between

```
miParameterStyle = ParameterStyleDisp (Values which can be displayed only)
miParameterStyle = ParameterStyleCombo (List values) and
miParameterStyle = ParameterStyleEdit (Numerical values which can be entered)
```

Depending on this style a different code is executed.

Sample program CltHiExe and CltTaExe

The sample programs CltHiExe and CltTaExe are used to control the features of the HiPic or HPD-TA from another application. The HiPic or HPD-TA is running in a different address space on the same or another computer. If the HiPic or HPD-TA is running on a different computer the user I/F provided by the HiPic/HPD-TA cannot be used on the local computer (because the HiPic/HPD-TA can only output dialog windows on the remote computer). All user I/F and other features which access the local computer (like file save on the local computer) must be programmed by the client programmer.

Image display

To display images in live mode the event

```
Private Sub mhAcq NewLiveImage()
```

of the HAcq object is used. Other events like the mHSequence_EndSequence (end of sequence mode) can be used as well to display updated images.

The function

```
gGetAndDisplayCurrentImage
```

is transferring and displaying the current image. The methods pGetareSource (get the image size) and pfGetDisplayData (get display data) are used to get the image data. It is the clients programmers responsability to output the image. In the sample program a function provided by the Hipic/HPD-TA is used for the propose (WING4VB_DrawImage. Strictly speaking this function is not part of the developers kit but is used here for easiness). The function mResizePicImage resizes the picturebox control where to display the image to provide correct aspect ratio.

Measurement cycles

The function mDoMeasurement gives an example how to perform measurent cycles. In a first step the acquisition is started. In a next step the program waits until completion of the acquisition. The following code is performing this wait operation:

```
mfCommandEnded = False
Do
    mfClientEvent = False
    DoEvents
    mfClientEvent = True
Loop Until (mfCommandEnded = True)
```

The flag mfCommandEnded is set to TRUE in an event raised by the HAsyncCommand object. See the following code:

```
Private Sub mHAsyncCommand_AfterCommand(sCommand As String)
    mfCommandEnded = True
End Sub
```

The function DoSaveAs gets the data of the current image and saves it in ITEX format. This function is given as an example to show how image data is saved generally. It is assumed that the user wants to use his own file formats under this circumstance.

The function mfGetFileName uses the common dialog to get the file name where to save image file. A function for file open is not provided. The client programmer could realize such function for training purposes.

Sample program CltHiExe2 and CltTaExe2

The sample program CltHiExe2 and CltTaExe2 is using two components: One is running on the remote computer and is acquiring data another is running on the local computer and is used for display and handling images. The component on the local computer is an ActiveX DLL.

The handling of the local ActiveX-DLL is similar to the handling in the sample programs CltHiDll and CltTaDll.

The two components are initialized with the functions

```
pcStartRemoteHPDTA and
pcStartLocalHPDTA
```

and separate object references are held on both components (Distinguished by the ending Rem or Loc like mHInitTaRem and mHInitTaLoc for the Init objects).

Copying data and display with the local component

To display the images acquired on remote component an empty window is created, the image data is transferred and copied to the image buffer. Only one image window is used at a time. Whenever the image size changes (in x, y or pixel depth direction) the function to create an empty window is used:

```
f = mHImagesLoc.pcItem(0).pfCreateEmptyImage(iX, iY, iDX, iDY,
iBytesPerPixel, "Image", SHOWADJUSTSIZE)
```

To copy image data the functions pfGetImageData1Byte, pfGetImageData2Byte or pfGetImageData2Byte is used depending on the piBytesPerPixel property of the image. These functions are expecting an array which can be sized freely within the component. Therefore it should be dimensioned without any bounderies like:

```
Private mbData() As Byte
```

The functions to get image and display data (pfGetImageData1Byte, pfGetImageData2Byte, pfGetImageData2Byte and pfGetDisplayData) are adjusting the buffers transferred to the component correctly therefore the client program does not need to do this. As the image data is transferred with a Marshalling mechanism the data is first copied to the component, then copied back to the client program. To improve transfer speed it is an advantage to ReDim the arrays to a small size before calling such data transfer functions. In such case the data is transferred quickly to the component and only the data transfer process back to the client program uses a considerable amount of time. Therefore we find the lines:

ReDim mbData(0, 0) As Byte before the command ItemCurrent.pfGetImageData1Byte ...

The component on the local computer can be used to easily display images, control zoom, ROI, LUT and similar things and save and load images in all formats provided by the HiPic/HPD-TA.

As it runs two components of the HiPic/HPD-TA it requires two licenses (dongles): one on every computer.

TaMonit and HiMonit

Up to now the concept of the client program always was: The Client program controls the operation of the component on the remote computer. In principle there is also another application of the remote control feature: The client program establishes a connection to the component on the remote computer to monitor certain activity but does not actively control it. The samples TaMonit and HiMonit are made for this purpose. A timer inquires every 3 seconds whether the component on the remote computer has been started. If so it pops up and displays all images displayed on the program. In this configuration normally the standalone application is started on the remote computer.

To check whether the program on the remote computer is running it is checked whether

```
mHInitTaStart.piStartStatus = StartStatusRunning
```

If this is TRUE the ActiveX-EXE on the remote computer is running. Subsequently object references are established and events are handled.

TaStart U and HiStart U

This sample is the smalles of all samples and has two functions:

- 1) It start the ActiveX-EXE component HiPic or HPD-TA by pushing the Start button. The effect is almost similar to clicking to the standalone program. The sample does not keep an object reference to the ActiceX component. This function can be used to verify whether the ActiveX-EXE has been correctly installed and registered.
- 2) It has a property HPDTA_HInitTa or HiPic_HInitHi which creates a new instance of the HInitHi or HInitTa object. This property can be used in the following case: Under Windows 95 and 98 a client program cannot launch an application by DCom on another computer. It can create objects when the application is already launched but it cannot launch them. In such case the user can place the HiStartS.EXE or TaStartS.EXE in the Autostart folder which launches these small applications at Windows Startup. A client program can now create an object within TaStart_U or HiStart_U. This object can now create an object HInitHi or HInitTa even if the application is not jet launched (because TaStart_U or HiStart_U is running on the same computer). The object reference is handled to the client program and no other reference is kept to the object.

If in the previous samples the flag fUseStarter is set to true the Client program first of all creates an instance of the ClsHiStart or ClsTAStart:

```
Set mClsTAStart = CreateObject("TAStart_u.ClsTAStart", sRemoteComputer)
```

Then it gets the reference to the HInitHi or HInitTa object. During execution of the property the ActiveX-EXE application HiPic or HPD-TA is launched and a new HInitHi or HInitTa object is created.

```
Set mHInitTaStart = mClsTAStart.HPDTA_HInitTa
```

Then the ClsHiStart or ClsTAStart is destroyed:

```
Set mClsTAStart = Nothing
```

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The object reference mHInitHiStart or mHInitTaStart can then be used as if the object has been created directly.	