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## DataRay OCX Documentation

## Button Interface Reference

Dispatch interface for CButtonCtrl controls

### Public Member Functions

- boolean **PutImagetoClipboard** ()  
*Puts image to clipboard*
- boolean **SaveImagetoFile** (BSTR FileNameWithPath)  
*Saves image to designated file*
- double **GetParameter** ()  
*Returns the current value for what the button displays*
- void **AboutBox** ()  
*Displays an about box*

### Properties

- long **ButtonID**  
*Sets button type as defined by ID number which must range from 1 to 440*

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## Detailed Description

Dispatch interface for CButtonCtrl controls

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## Member Function Documentation

### boolean SaveImagetoFile (BSTR *FileNameWithPath*)

Saves image to designated file

#### Parameters

<i>FileNameWithPath</i>	The filename and path combined
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Dispatch interface for CCCDimageCtrl controls

### Public Member Functions

- boolean **PutImagetoClipboard** ()  
*Puts image to clipboard*
- boolean **SaveImagetoFile** (BSTR FileNameWithPath)  
*Saves image to designated file*

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### Detailed Description

Dispatch interface for CCCDimageCtrl controls

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### Member Function Documentation

#### boolean SaveImagetoFile (BSTR *FileNameWithPath*)

Saves image to designated file

#### Parameters

<i>FileNameWithPath</i>	The filename and path combined
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Primary dispatch interface for CGetDataCtrl

## Public Member Functions

- **BSTR GetLastError ()**  
*Returns the last error*
- **boolean EnablePointing** (short Enabled, short whichClip, short Units)  
*Enables or disables pointing and adjusts relevant settings*
- **boolean WriteSourceToImagerDistance** (double distance)  
*Sets the source to imager distance in millimeters*
- **boolean SaveFile ()**  
*Opens the save file dialog menu*
- **boolean OpenFile ()**  
*Opens the open file dialog menu*
- **boolean PreviousProfile ()**  
*Moves image and profiles back by one frame*
- **boolean NextProfile ()**  
*Moves the image and profiles forward by one frame*
- **boolean SelectProfile ()**  
*Opens the beam selection dialog to select a frame*
- **void PurgeAllData ()**  
*Purges automatically recorded data from program; no frames will be available for selection*
- **double GetOcxResult** (short IndexToValue)  
*Returns the current value for a button given its ID*
- **BSTR GetOcxResultName** (short IndexToValue)  
*Returns the name for a button given its ID*
- **boolean OpenClipLevelDlg** (short ClipOneOrTwo\_0\_1)  
*Opens the clip level dialog for the given clip*
- **double GetClipLevel** (short ClipOneOrTwo\_0\_1)  
*Returns the current level for the given clip*



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- short **GetClipLevelMode** (short ClipOneOrTwo\_0\_1)  
*Returns the mode for the given clip*
- double **ReadSourceToImagerDistance** ()  
*Returns the source to imager distance in millimeters*
- void **LoadDefaults** ()  
*Load default settings for program*
- long **SetAverageNumber** (long NumberToAverage)  
*Sets the number you want to average*
- long **SaveJobFile** ()  
*Opens the save job file dialog*
- long **LoadJobFile** ()  
*Opens the load job file dialog*
- boolean **EnableDivergence** (short Enabled, short whichClip, short Units)  
*Enables or disables angular divergence and adjusts relevant settings*
- boolean **SetClipLevel** (double Clip1, double Clip2, short Mode1, short Mode2)  
*Sets parameters which affect the profile displays and measurements*
- boolean **SetDisplayMode** (short DisplayMode)  
*Sets display mode in microns*
- boolean **SetControlState** (short WhichControl, short State\_0\_NOT0)  
*Sets the state for a subset of controls*
- short **SetCurrentDevice** (short DeviceType)  
*Set current device*
- long **OpenThisFile** (BSTR NameOfFile)  
*Opens the given file*
- short **GetCurrentDevice** ()  
*Returns current device as number; see table*
- short **GetCurrentState** ()  
*Returns state of device; 0 is live and 1 is recall*
- short **GetCurrentIndex** ()

- boolean **SetLiveRecallState** (short NewState\_0\_IS\_LIVE)  
*Toggle between live an recall state*
- short **GetSampleCount** (short Live\_Is\_0)  
*Returns the sample count for given state; live is 0 and 1 is recall*
- BSTR **GetRecallFieName** ()  
*Returns recall file name*
- long **GetSavedDataPointer** ()  
*Returns a pointer to the saved data structure*
- short **OpenDialog** (short IndexToDialog)  
*Opens dialog defined by number; see list*
- short **CloseDialog** (short IndexToDialog)  
*Closes dialog defined by number; see list*
- boolean **DeviceRunning** ()  
*Returns device running status*
- boolean **StartDevice** ()  
*Returns true on successful start of device*
- boolean **StopDevice** ()  
*Returns true on successful stop of device*
- short **GetAverageNumber** ()  
*Returns the number to average set by **SetAverageNumber***
- BSTR **GetRecallFieVersion** ()  
*Returns recall file version*
- short **SetToZero** ()  
*Based on current value, sets buttons to zero to display divergence*
- short **SetToAbsolute** ()  
*Sets buttons to absolute setting (\*) not absolute value*
- short **GetHorizontalPixels** ()  
*Returns the horizontal pixel size*

- **boolean CaptureIsFullResolution ()**  
*Returns true if capture is set to full resolution*

- **boolean IsCameraThere** (short WhichCamera\_0\_1)  
*Returns true if camera is there*

- **BSTR GetHelpString ()**  
*Returns help string*

- **void GetWinCamSingle ()**  
*Sets up 1st WinCam*

- **long GetShutterSetting ()**  
*Returns shutter setting*

- **void ExportToPaint** (long ThisPointer)  
*Exports to paint (\*) No success in Win8*

- **short ToggleDialog** (short IndexOfDialog)  
*Toggles dialog defined by number; see list*

- **boolean ExportAsBitMap** (long ThisAsLong)  
*Exports as bitmap given pointer to window as long*

- **boolean PutToClipboard** (long ThisAsLong)  
*Takes screenshot regardless of input*

- **BSTR GetSoftwareVersion ()**  
*Returns software version*

- **double GetWinCamDPixelSize** (short X\_0\_Y\_1)  
*Returns horizontal or vertical pixel size*

- **double GetParameter** (short IndexToValue)  
*Gives value for button designated by ID number; similar to **GetOcxResult** but it must be a parameter only*

- **boolean StartDriver ()**  
*Starts the driver*

- **void ResetCameras ()**  
*Resets cameras*

- **short ResetCamera** (short WhichCamera)

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- **BSTR GetSaveFileName ()**  
*Returns save file name*
- **long GetProfileTop ()**  
*Returns profile display's height in pixels*
- **double GetOcxResultExt (long WhichResult, long WhichCamera)**  
*Returns OCX result for given camera; see **GetOcxResult** for more information*
- **void ForceCrosshairsToZero ()**  
*Forces crosshairs to zero instead of 45 degrees or auto orientation*
- **void ForceCrosshairsTo45 ()**  
*Forces crosshairs to 45 instead of 0 degrees or auto orientation*
- **void SetGamma (double NewGamma)**  
*Sets gamma value*
- **double GetEffectiveCentroidY (long WhichCamera)**  
*Returns horizontal position of centroid for given camera*
- **double GetEffectiveCentroidX (long WhichCamera)**  
*Returns vertical position of centroid for given camera*
- **double GetEffectiveGeoCenterY (long WhichCamera)**  
*Returns horizontal position of geometric centroid for given camera*
- **double GetEffectiveGeoCenterX (long WhichCamera)**  
*Returns vertical position of geometric centroid for given camera*
- **void KeyEvent (short KeyCode, short KeyCount)**  
*Relays events by keyboard input*
- **long GetPixel (long x, long y)**  
*Returns pixel value for (x,y) coordinate position*
- **boolean SaveCurrentData (BSTR FileNameAndPath)**  
*Saves data as given by filename and path variable*
- **long EnableUseEffectiveSlits (long Enable)**  
*Enables use of effective slits*



- **boolean GetErrorStatus ()**

*Returns 1 if camera could have errors, eg. if it is in recall mode, it will return 0*

- **void UpdateAllButtons ()**  
*Updates all buttons*
- **long GetPeakXlocation ()**  
*Returns the peak in the horizontal direction, usually zero*
- **long GetPeakYlocation ()**  
*Returns the peak in the vertical direction, usually zero*
- **long GetCentroidXlocation ()**  
*Returns the horizontal coordinate of the centroid*
- **long GetCentroidYlocation ()**  
*Returns the vertical coordinate of the centroid*
- **long SetDefaultXcPlane (long DefaultXcPlane)**  
*For BeamMap, sets the default X plane*
- **double SetEffectiveWidthCliplevel (double NewClipLevel)**  
*Sets the effective clip width level*
- **double GetEffectiveWidthCliplevel ()**  
*Returns the effective clip level*
- **long SetRealTimeLogging (long EnabledIsNotZero)**  
*Enable real time logging*
- **long GetRealTimeLogging ()**  
*Returns real time logging status; 1 is on 0 is off*
- **long SetNonuniformityOnOff (long NonZeroIsOn)**  
*Enable/Disable non-uniformity*
- **long GetNonuniformityOnOff ()**  
*Returns non-uniform status*
- **boolean GetCurrentWinCamData (long \*ImageDataPt, long \*XSizePt, long \*YSizePtr)**  
*Upon successfully setting pointers to variables, returns true*
- **boolean SetROI (long Left, long Top, long Width, long Height)**  
*Sets the capture size and starting positions*

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- boolean **GetROI** (long \*LeftAsLongPointer, long \*TopAsLongPointer, long \*WidthAsLongPointer, long \*HeightAsLongPointer)  
*Fills given pointers with capture size and starting position*
- boolean **SetWorkingDirectory** (BSTR WorkingDirectory)  
*Sets working directory for placement of DataRay files*
- boolean **LoadThisJobFile** (BSTR JobFileNamePath)  
*Loads a job file*
- double **GetIncludedPowerPercentAtRadius** (double RadiusInMicrons)  
*Gets the percentage of total power included at a given radius from the centroid*
- double **GetIncludedPowerTotal** ()  
*Returns the power total (\*) Will always return 0.0*
- boolean **SaveCurrentDataBuffer** (BSTR NameOfFileWithPath)  
*Saves the current data buffer into one of the designated file types*
- boolean **GetWinCamSingleAndComplete** ()  
*Returns whether the current device is a wincam*
- double **GetRadiusAtPowerPercent** (double PowerPercent)  
*For a given percentage, returns the radius from centroid including that percentage of total power*
- void **AutoCrosshairs** ()  
*Forces crosshairs to be set automatically instead of 0 or 45 degrees*
- long **GetCameraType** ()  
*If WinCam, returns type of camera as defined by number in list, -1 otherwise; for full functionality, use CameraType*
- boolean **PressButton** (long Button\_ID, int Left\_Button)  
*Press button of given ID*
- void **SetBackGroundSubtraction2** (short New\_Remove, short Silent)  
*This sets the values for two background subtraction settings*
- void **RestartMotor** ()  
*Restarts motor*
- long **GetCameraIndex** ()  
*Returns the index of current camera*



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- void **NudgeCrosshairs** (long Axis\_X\_Y, long SignedDirection)  
*Nudge the crosshairs by one*
- boolean **EnableInclusion** (long Enable\_Yes\_No)  
*Enable inclusion*
- short **GetVerticalPixels** ()  
*Returns vertical pixels*
- long **CameraType** ()  
*Returns current camera type, -1 on failure; see list*
- VARIANT **GetWinCamDataAsVariant** ()  
*Returns WinCam data as a variant*
- double **GetVSKOffset** ()  
*Returns VSK offset*
- void **SetVSKOffset** (double newValue)  
*Sets VSK offset value*
- VARIANT **GetTargetWinCamDataAsVariant** (short targetCamera)  
*Returns target WinCam data as a variant*
- short **GetCameraImageIndex** (short targetCamera)  
*Gets the image index of designated camera*
- double **GetTargetCameraClipWidthAtAngle** (double angle, double clipLevel, short targetCamera)  
*Returns the clip width of target camera at the given angle and clip level*
- long **FillVariantWithWinCamData** ([out]VARIANT \*var)  
*Fills given pointer to variant data*
- void **SetTargetCameraExposure** (long WhichCamera, double newValue)  
*Sets the exposure time of target camera in milliseconds*
- void **StageSetPosition** (double position)  
*Moves stage to given position*
- double **StageGetPosition** ()  
*Returns the position of the stage in millimeters*
- boolean **StopDeviceNoUpdate** ()

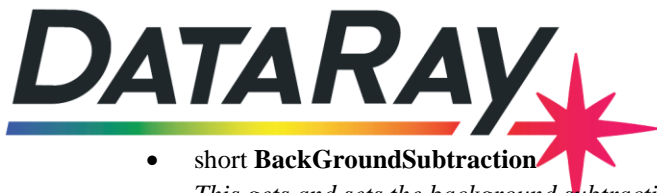
- double **GetClipWidthAtAngle** (double angle, double clipLevel)  
*Returns the clip width of current camera at the given angle and clip level*
- boolean **PrintToPDF** (int mode)  
*Prints PDF*
- short **GetTargetCameraType** (short targetCamera)  
*Returns the type of the target camera*
- int **GetShutterState** ()  
*Returns the shutter state of an SCD camera; 1 if open, 2 if closed*
- void **SetShutterState** (int shutterState)  
*Sets the shutter state of an SCD camera*
- int **SetResolutionAndROI** (bool fullResolution, int Left, int Top, int Width, int Height)  
*Enable/disable full resolution mode and sets capture block size and location*
- int **SetSoftwareApertureSizeTypeLocation** (int mode, double ratio, double umDiameter, double umWidth, double umHeight, int centerOnCoordinate, double umCoordinateX, double umCoordinateY)  
*Adjusts software aperture settings, including mode, size, and location*
- int **SetCentroidTargetRadius** (int enabled, double radiusInMillimeters)  
*Enables/disables centroid bull's eye and sets centroid size in millimeters*
- int **GetSoftwareApertureSizeTypeLocation** (int \*mode, double \*ratio, double \*umDiameter, double \*umWidth, double \*umHeight, int \*centerOnCoordinate, double \*umCoordinateX, double \*umCoordinateY)  
*Gets the software aperture settings, including mode, size, and location and places into the provided pointers*
- int **GetSoftwareApertureMode** ()  
*Returns the software aperture mode*
- double **GetSoftwareApertureRatio** ()  
*Returns the software aperture size as a ratio of the major clip width*
- double **GetSoftwareApertureFixedCircleDiameter** ()  
*Returns the software aperture diameter when in fixed diameter mode*
- double **GetSoftwareApertureFixedRectangleWidth** ()  
*Returns the software aperture width when in rectangular mode*

- double **GetSoftwareApertureFixedRectangleHeight** ()  
*Returns the software aperture height when in rectangular mode*
- int **GetSoftwareApertureCenteredOnCoordinate** ()  
*Returns true (1) if aperture centered on user coordinates and false (0) otherwise*
- double **GetSoftwareApertureCenterX** ()  
*Returns the X coordinate of the software aperture center when centered on user coordinates*
- double **GetSoftwareApertureCenterY** ()  
*Returns the Y coordinate of the software aperture center when centered on user coordinates*
- double **GetCentroidTargetRadius** ()  
*Returns the centroid size in millimeters*
- **BOOL ImportPaletteFile** ()  
*Allows user to select a properly formatted CSV file to be imported as a custom color palette*
- double **GetTargetCameraExposure** (long WhichCamera)  
*Returns the exposure time of target camera in milliseconds*
- void **SetTargetCameraGain** (long WhichCamera, double newValue)  
*Sets the gain of target camera*
- double **GetTargetCameraGain** (long WhichCamera)  
*Returns the gain of target camera*
- **BOOL ToggleDXXForceToCircle** ()  
*Toggles forcing the inclusion region to circle when in DXX mode*
- int **GetDXXForceToCircle** ()  
*Returns whether the inclusion region is forced to circle when in DXX mode*

## Public Attributes

- long **IsMSquaredOpen**  
*Gets and sets the value for the M2 dialog; 1 opens it and 0 closes it*
- short **Palette**  
*Getter and setter for palette selection; assigning a short sets it to one of the color palettes and accessing this property returns the current palette*
- **BSTR PrintNotes**

- short **InkSaverState**  
*Gets and sets the value for an ink saving option which removes black background from image to save ink; 1 is true and 0 is false*
- short **JitterSuppression**  
*Gets and sets the value for jitter suppression; 1 is true and 0 is false*
- long **SlitsUsed**  
*Gets and sets the long value for slits used*
- double **Wavelength**  
*Gets and sets the double value for wavelength*
- short **IsDivergenceOpen**  
*Gets and sets the value for open divergence; 1 is true and 0 is false*
- short **WinCamFilter**  
*Gets and sets the short value for WinCam filter; 1 sets it to 1 pixel; 2 sets it to 3 pixels; 3, 5 pixels; 4, 7 pixels; 5, 9 pixels*
- short **FastUpdate**  
*Toggles the fast update setting; 1 is true and 0 is false*
- short **CameraSelect**  
*Gets and sets (switches) the camera; 0 is the first camera*
- short **CurrentCamera**  
*Gets and sets (switches) the camera; 0 is the first camera. Unlike CameraSelect, this does not turn off the camera, so it is highly recommended to use CameraSelect to switch cameras instead*
- short **AutoSnap**  
*Gets and sets AutoSnap; it should be set between 0 and 3*
- short **SizeToggle**  
*Gets and sets the value for size toggle; 1 is true and 0 is false*
- short **BaselineLocked**  
*Gets and sets the value for locked baseline; 1 is true and 0 is false*
- short **WinCamNormalized**  
*Gets and sets the value for WinCam image normalization; 1 is true and 0 is false*



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- short **BackGroundSubtraction**  
*This gets and sets the background subtraction*
- short **AutoNaming**  
*Gets and sets the value for automatically naming files; 1 is true and 0 is false*
- double **CentroidClipLevel**  
*Gets and sets the centroid clip level as a percentage in decimal notation; this must be between 0 and 1.0*
- long **CameraSequence**  
*Gets and sets camera sequence variable*
- double **GeoClipLevel**  
*Gets and sets the geometric centroid clip level as a percentage in decimal notation; this must be between 0 and 1.0*
- long **EffectiveCentroidFilterInPixels**  
*Gets and sets the centroid filter size in pixels; the default is 5*
- boolean **eTrapOn**  
*Gets and sets the value for eTrap/summary>*
- boolean **AutoShutterOn**  
*Gets and sets the value for AutoShutter/summary>*
- boolean **UseISO11146**  
*Make measurements based on ISO 11146/summary>*
- boolean **RangeLock**  
*Gets and sets the value for RangeLock/summary>*
- boolean **LockAll**  
*Gets and sets the value for LockAll/summary>*
- boolean **StopMotorAtExit**  
*Gets and sets the value for StopMotorAtExit/summary>*
- boolean **UseEffectiveSlits**  
*Gets and sets the value for using effective slits/summary>*
- boolean **ShowEffectiveSlits**  
*Gets and sets the value for showing effective slits/summary>*



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- **boolean AtAim**  
*Gets and sets the value for at aim*
- **long WinCamDDivergenceCameras**  
*Gets and sets the WinCamD divergent cameras; this must be between 1 and 3; a value outside of this range results in a setting of 3*
- **short CentroidType**  
*Gets and sets the centroid type value corresponding to the listed centroid methods; this must be between 0 and 2; a value outside of this range results in a setting of 0*
- **short UseAllUsbCameras**  
*Gets and sets the value for using multiple cameras; 1 is true and 0 is false*
- **long AlternateDetector**  
*Gets and sets the value for using an alternate detector; 1 is true and 0 is false*
- **boolean UseD63**  
*Gets and sets the value for using D63 method of calculating beam diameter*
- **double ImagerGain**  
*Gets and sets the gain of the imager; this must be between 1 and 16; a value outside of this range results in the closest in range setting*
- **short MajorMinorMethod**  
*Gets and sets the major minor method of the camera ; this must be between 0 and 2; a value outside of this range can cause problems (\*)*
- **boolean TriggerEnabled**  
*Gets and sets the value for using the trigger/summary>*
- **boolean WinCamDAutoTrigger**  
*Gets and sets the value for using the autotrigger for WinCamD/summary>*
- **boolean TriggerIsInput**  
*Gets and sets the value for using trigger is input/summary>*
- **boolean TriggerOnPositive**  
*Gets and sets the value for trigger on positive feature/summary>*
- **double AutoTrigMax**  
*Gets and sets the maximum for autotrigger in .1 second increments; this must be between 0.0 and 100; if maximum is bigger than minimum, max = 1.0 and min = 0.1*



- double **AutoTrigMin**

*Gets and sets the minimum for autotrigger in .1 second increments; this must be between 0.5 and 3.0. Must be less than maximum; see **AutoTrigMax** results in the closest in range setting*

- boolean **EnableMultiBeams**  
*Multiple beams enabled*
- boolean **EnableCTE**  
*Toggles Comet Tail Elimination and turns off HyperCal*
- BOOL **UsePlateauUniformity**  
*Enables use of plateau uniformity*
- BOOL **DisableAutoUSBEnum**  
*Disables automatic USB enumeration*
- int **LCMTriggerMode**  
*Sets the LCM trigger mode*
- int **TriggerDelayUs**  
*Sets the LCM trigger delay in microseconds*

## Properties

- double **FilterValue**  
*Gets and sets double value for filter between 0 and 10.1*

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## Detailed Description

Primary dispatch interface for CGetDataCtrl

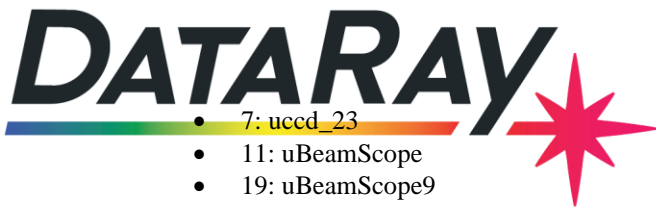
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## Member Function Documentation

### long CameraType ()

Returns current camera type, -1 on failure; see list

- 1: UCM\_L
- 2: uHs\_L
- 3: uHs\_s
- 4: uHr\_s
- 5: ucm\_s
- 6: uccd\_12



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- 7: uccd\_23
- 11: uBeamScope
- 19: uBeamScope9
- 12: uFir\_1
- 14: xHr\_s
- 22: uFir\_2
- 13: uBlade
- 23: uHr\_mini
- 26: uHr\_mini2
- 24: uHs\_mini
- 25: ucm\_mini
- 28: uccd\_15
- 30: xHr\_mini
- 34: LCM\_V1

**short CloseDialog (short *IndexToDialog*)**

Closes dialog defined by number; see list

- 7: WinCam fluence dialog
- 19: WinCam logging dialog
- 10: Logging dialog
- 2: Beamscope M2 dialog
- 15: Wander dialog

**boolean DeviceRunning ()**

Returns device running status

**Returns**

True upon success

**boolean EnableDivergence (short *Enabled*, short *whichClip*, short *Units*)**

Enables or disables angular divergence and adjusts relevant settings

**Parameters**

<i>Enabled</i>	Must be 0 (enables) or 1 (disables)
<i>whichClip</i>	0 for clip A or 1 for clip B
<i>Units</i>	Selects displayed units (0-4)

- 0: Degrees Mode 1 (XXX.X)
- 1: Degrees Mode 2 (XX.XX)
- 2: Degrees Mode 3 (X.XXX)
- 3: Milliradians Mode
- 4: N/A Mode (sine of half the angle)

**boolean EnableInclusion (long *Enable\_Yes\_No*)**

Enable inclusion

**Parameters**

<i>Enable_Yes_No</i>	1 means enable and 0 means disable
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**boolean EnablePointing (short *Enabled*, short *whichClip*, short *Units*)**

Enables or disables pointing and adjusts relevant settings

**Parameters**

<i>Enabled</i>	Must be 0 (disables) or 1 (enables)
<i>whichClip</i>	0 for clip A or 1 for clip B
<i>Units</i>	Selects displayed units (0-4)

- 0: Degrees Mode 1 (XXX.X)
- 1: Degrees Mode 2 (XX.XX)
- 2: Degrees Mode 3 (X.XXX)
- 3: Milliradians Mode
- 4: N/A Mode (sine of half the angle)

**long EnableUseEffectiveSlits (long *Enable*)**

Enables use of effective slits

**Parameters**

<i>Enable</i>	Should be 1 for True (enable) and 0 for False (disable)
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**boolean ExportAsBitMap (long *ThisAsLong*)**

Exports as bitmap given pointer to window as long

**Returns**

True upon success

**short GetCameraImageIndex (short *targetCamera*)**

Gets the image index of designated camera

## Parameters

<i>targetCamera</i>	0 is the first
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## long GetCameraType ()

If WinCam, returns type of camera as defined by number in list, -1 otherwise; for full functionality, use **CameraType**

- 1: UCM\_L
- 2: uHs\_L
- 3: uHs\_s
- 4: uHr\_s
- 5: ucm\_s
- 6: uccd\_12
- 7: uccd\_23
- 11: uBeamScope
- 19: uBeamScope9
- 12: uFir\_1
- 14: xHr\_s
- 22: uFir\_2
- 13: uBlade
- 23: uHr\_mini
- 26: uHr\_mini2
- 24: uHs\_mini
- 25: ucm\_mini
- 28: uccd\_15
- 30: xHr\_mini
- 34: LCM\_V1

## double GetClipLevel (short *ClipOneOrTwo\_0\_1*)

Returns the current level for the given clip

## Parameters

<i>ClipOneOrTwo_0_1</i>	1 (A) or 2 (B)
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## short GetClipLevelMode (short *ClipOneOrTwo\_0\_1*)

Returns the mode for the given clip

## Parameters

<i>ClipOneOrTwo_0_1</i>	1 (A) or 2 (B)
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Returns the clip width of current camera at the given angle and clip level

**Parameters**

<i>angle</i>	An angle in radians from 0 to 2PI
<i>clipLevel</i>	The clip level from 0.01 to 0.99

**short GetCurrentDevice ()**

Returns current device as number; see table

- 1: BeamScope
- 2: BeamR
- 3: BeamMap
- 4: BeamMC
- 5: WinCam
- 6: WinCam Div
- 7: WinCam Log
- 8: TwoD Scan
- 9: WinCam Comp
- 10: WinCam Comp3
- 11: WinCam Comp4
- 12: WinCam Comp5

**boolean GetCurrentWinCamData (long \* *ImageDataPt*, long \* *XSizePt*, long \* *YSizePtr*)**

Upon successfully setting pointers to variables, returns true

**Parameters**

<i>ImageDataPt</i>	Pointer to be set to image data
<i>XSizePt</i>	Pointer to be set to horizontal size
<i>YSizePtr</i>	Pointer to be set to vertical size

**double GetEffectiveCentroidX (long *WhichCamera*)**

Returns vertical position of centroid for given camera

**Parameters**

<i>WhichCamera</i>	Camera by index from 0 to 7
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**double GetEffectiveCentroidY (long *WhichCamera*)**

## Parameters

<i>WhichCamera</i>	Camera by index from 0 to 7
--------------------	-----------------------------

### double GetEffectiveGeoCenterX (long *WhichCamera*)

Returns vertical position of geometric centroid for given camera

## Parameters

<i>WhichCamera</i>	Camera by index from 0 to 7
--------------------	-----------------------------

### double GetEffectiveGeoCenterY (long *WhichCamera*)

Returns horizontal position of geometric centroid for given camera

## Parameters

<i>WhichCamera</i>	Camera by index from 0 to 7
--------------------	-----------------------------

### double GetIncludedPowerPercentAtRadius (double *RadiusInMicrons*)

Gets the percentage of total power included at a given radius from the centroid

## Parameters

<i>RadiusInMicrons</i>	The radius from the centroid measured in microns
------------------------	--

### long GetPixel (long *x*, long *y*)

Returns pixel value for (x,y) coordinate position

## Parameters

<i>x</i>	Must be smaller than image width
<i>y</i>	Must be smaller than image height

### double GetRadiusAtPowerPercent (double *PowerPercent*)

For a given percentage, returns the radius from centroid including that percentage of total power

## Parameters

<i>PowerPercent</i>	A percentage 0 to 100 as a double
---------------------	-----------------------------------

Fills given pointers with capture size and starting position

### Parameters

<i>LeftAsLongPointer</i>	Long pointer to be set to horizontal position for capture
<i>TopAsLongPointer</i>	Long pointer to be set to starting vertical position for capture
<i>WidthAsLongPointer</i>	Long pointer to be set to capture width
<i>HeightAsLongPointer</i>	Long pointer to be set to capture height

### Returns

Returns true upon success

### int GetSoftwareApertureMode ()

Returns the software aperture mode

- 0: Major Width X 3
- 1: Major Width X User Value
- 2: Fixed Diameter Circle
- 3: Aperture Off
- 4: Rectangular

### int GetSoftwareApertureSizeTypeLocation (int \* *mode*, double \* *ratio*, double \* *umDiameter*, double \* *umWidth*, double \* *umHeight*, int \* *centerOnCoordinate*, double \* *umCoordinateX*, double \* *umCoordinateY*)

Gets the software aperture settings, including mode, size, and location and places into the provided pointers

### Parameters

<i>mode</i>	pointer to receive mode value
<i>ratio</i>	pointer to receive ratio value when mode = 1
<i>umDiameter</i>	pointer to receive aperture diameter value in microns when mode = 2
<i>umWidth</i>	pointer to receive aperture width in microns when mode = 4
<i>umHeight</i>	pointer to receive aperture height in microns when mode = 4
<i>centerOnCoordinate</i>	pointer to receive center on coordinate value
<i>umCoordinateX</i>	pointer to receive X value of the aperture center when center on coordinates is enabled
<i>umCoordinateY</i>	Sets the Y value of the aperture center when center on coordinates is enabled

### double GetTargetCameraClipWidthAtAngle (double *angle*, double *clipLevel*, short *targetCamera*)

## Parameters

<i>angle</i>	An angle in radians from 0 to 2PI
<i>clipLevel</i>	The clip level from 0.01 to 0.99
<i>targetCamera</i>	The index of the camera from 0 to 7

## double GetTargetCameraExposure (long WhichCamera)

Returns the exposure time of target camera in milliseconds

## Parameters

<i>WhichCamera</i>	The index of the camera from 0 to 7
--------------------	-------------------------------------

## double GetTargetCameraGain (long WhichCamera)

Returns the gain of target camera

## Parameters

<i>WhichCamera</i>	The index of the camera from 0 to 7
--------------------	-------------------------------------

## short GetTargetCameraType (short targetCamera)

Returns the type of the target camera

## Parameters

<i>targetCamera</i>	The index of the camera from 0 to 7
---------------------	-------------------------------------

## VARIANT GetTargetWinCamDataAsVariant (short targetCamera)

Returns target WinCam data as a variant

## Parameters

<i>targetCamera</i>	The index of the camera from 0 to 7
---------------------	-------------------------------------

## Returns

If data is ready, the size of the variant will match the dimensions; otherwise, it will be a size of 1

## VARIANT GetWinCamDataAsVariant ()

Returns WinCam data as a variant

## Returns

If data is ready, the size of the variant will match the dimensions; otherwise, it will be a size of 1



Returns horizontal or vertical pixel size

**Parameters**

<i>X_0_Y_1</i>	0 for horizontal and 1 for vertical
----------------	-------------------------------------

**boolean IsCameraThere (short *WhichCamera\_0\_1*)**

Returns true if camera is there

**Parameters**

<i>WhichCamera_0_1</i>	The index of the camera from 0 to 7
------------------------	-------------------------------------

**void KeyEvent (short *KeyCode*, short *KeyCount*)**

Relays events by keyboard input

**Parameters**

<i>KeyCode</i>	The keyboard input as short
<i>KeyCount</i>	Deprecated

**boolean LoadThisJobFile (BSTR *JobFileNamePath*)**

Loads a job file

**Parameters**

<i>JobFileNamePath</i>	The filename with its path
------------------------	----------------------------

**boolean NextProfile ()**

Moves the image and profiles forward by one frame

**Returns**

True upon success

**void NudgeCrosshairs (long *Axis\_X\_Y*, long *SignedDirection*)**

Nudge the crosshairs by one

<i>Axis_X_Y</i>	0 means X and 1 means Y
<i>SignedDirection</i>	Positive means right or up; negative means down or left

## boolean `OpenClipLevelDlg` (short `ClipOneOrTwo_0_1`)

Opens the clip level dialog for the given clip

### Parameters

<i>ClipOneOrTwo_0_1</i>	1 (A) or 2 (B)
-------------------------	----------------

### Returns

True upon success

## short `OpenDialog` (short `IndexToDialog`)

Opens dialog defined by number; see list

- 33: Firmware loading dialog
- 29: File browser dialog
- 28: PCD dialog
- 27: UCM calibration dialog
- 30: Test USB M2 stage dialog
- 32: ISO clip dialog
- 16: Centroid clip dialog
- 22: Geometric centroid clip dialog
- 26: UCM test dialog
- 25: Get e width clip dialog
- 12: Wavelength dialog
- 24: M factor dialog
- 14: PCI Eeprom dialog
- 15: Wander dialog
- 34: Old beam calibration dialog
- 23: Beam calibration dialog
- 31: UCM M2 dialog
- 13: Capture dialog
- 11: BS pulsed dialog
- 10: Logging dialog
- 9: Eeprom data dialog
- 2: M2 beamscope dialog
- 17: WinCam image log setup dialog
- 20: Beam fit dialog
- 7: WinCam fluence dialog
- 18: WinCam image log dialog
- 8: Numeric display dialog
- 21: Trigger display dialog
- 35: Fir hot adjust dialog
- 37: LCM registration dialog
- 36: UMap speed change dialog

## boolean OpenFile ()

Opens the open file dialog menu

### Returns

True upon success

## long OpenThisFile (BSTR *NameOfFile*)

Opens the given file

### Parameters

<i>NameOfFile</i>	The full name of the file
-------------------	---------------------------

### Returns

Success as a boolean

## boolean PressButton (long *Button\_ID*, int *Left\_Button*)

Press button of given ID

### Parameters

<i>Button_ID</i>	Must be between 0 and 440
<i>Left_Button</i>	For the equivalent of a left click; 1 = left click, 0 = right click

### Returns

Returns true upon success

## boolean PreviousProfile ()

Moves image and profiles back by one frame

### Returns

True upon success

## boolean PrintToPDF (int *mode*)

Prints PDF

### Parameters

<i>mode</i>	If 1, disables printer test; enabled otherwise
-------------	--

Takes screenshot regardless of input

### Returns

True upon success

### short ResetCamera (short *WhichCamera*)

Resets target camera

### Parameters

<i>WhichCamera</i>	The camera's index from 0 to 7
--------------------	--------------------------------

### boolean SaveCurrentDataBuffer (BSTR *NameOfFileWithPath*)

Saves the current data buffer into one of the designated file types

### Parameters

<i>NameOfFileWithPath</i>	File extension must match corresponding camera type; see list
---------------------------	---

- Beamscope ".bsf"
- BeamMap ".bmf"
- BeamCamera ".bmc"
- BeamR ".bmr"
- WinCam ".wcf"

### boolean SaveFile ()

Opens the save file dialog menu

### Returns

True upon success

### boolean SelectProfile ()

Opens the beam selection dialog to select a frame

### Returns

True upon success

Sets the number you want to average

**Parameters**

<i>NumberToAverage</i>	The number to average
------------------------	-----------------------

**void SetBackGroundSubtraction2 (short *New\_Remove*, short *Silent*)**

This sets the values for two background subtraction settings

**Parameters**

<i>New_Remove</i>	This number should be 0, 1 or 100
<i>Silent</i>	1 is True and 0 is False; 1 prevents the opening of a window

*New\_Remove*=1 and *Silent*=0 are the default settings of the standalone software and use some background subtraction, but not HyperCal. Setting *New\_Remove* to 100 starts HyperCal.

**int SetCentroidTargetRadius (int *enabled*, double *radiusInMillimeters*)**

Enables/disables centroid bull's eye and sets centroid size in millimeters

**Parameters**

<i>enabled</i>	0 to disable centroid bull's eye, 1 to enable
<i>radiusInMillimeters</i>	The centroid size in millimeters

**boolean SetClipLevel (double *Clip1*, double *Clip2*, short *Mode1*, short *Mode2*)**

Sets parameters which affect the profile displays and measurements

**Parameters**

<i>Clip1</i>	Sets clip level A as percentage in decimal notation
<i>Clip2</i>	Sets clip level B as percentage in decimal notation
<i>Mode1</i>	Sets clip mode for A
<i>Mode2</i>	Sets clip level for B

As percentages in decimal notation, clip levels should be between 0 and 1. These impact the measurements displayed in the buttons above the profiles in the standalone program.

Mode refers to whether you are using the clip level method (*Mode*=0), or the 4-sigma method (*Mode*=1).

If *Mode* = 1, then the clip levels don't matter.

**Returns**

True upon success

Sets the state for a subset of controls

### Parameters

<i>WhichControl</i>	Must be one of the listed values (5-11)
<i>State_0_NOT0</i>	0 is false and 1 is true

- 5: Auto 3D update
- 6: Auto 2D update
- 7: Jitter control
- 8: Palette change
- 9: Ink saving
- 10: Auto naming
- 11: Live recall

### Returns

True upon success

### short SetCurrentDevice (short DeviceType)

Set current device

### Parameters

<i>DeviceType</i>	Must be a number from 1 to 12; see list
-------------------	---

### Returns

Submitted number

- 1: BeamScope
- 2: BeamR
- 3: BeamMap
- 4: BeamMC
- 5: WinCam
- 6: WinCam Div
- 7: WinCam Log
- 8: TwoD Scan
- 9: WinCam Comp
- 10: WinCam Comp3
- 11: WinCam Comp4
- 12: WinCam Comp5

### long SetDefaultXcPlane (long DefaultXcPlane)

For BeamMap, sets the default X plane



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**Parameters**

<i>DefaultXcPlane</i>	Must be in the range from 0 to 3
-----------------------	----------------------------------

**boolean SetDisplayMode (short *DisplayMode*)**

Sets display mode in microns

**Parameters**

<i>DisplayMode</i>	Should be between 0 and 5
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**Returns**

True upon success

**void SetGamma (double *NewGamma*)**

Sets gamma value

**Parameters**

<i>NewGamma</i>	Must be between 0.2 and 5.0
-----------------	-----------------------------

**boolean SetLiveRecallState (short *NewState\_0\_IS\_LIVE*)**

Toggle between live an recall state

**Parameters**

<i>NewState_0_IS_LIVE</i>	0 is live and 1 is recall
---------------------------	---------------------------

**Returns**

True upon success

**long SetNonuniformityOnOff (long *NonZeroIsOn*)**

Enable/Disable non-uniformity

**Parameters**

<i>NonZeroIsOn</i>	1 enables and 0 disables
--------------------	--------------------------

**long SetRealTimeLogging (long *EnabledIsNotZero*)**

Enable real time logging

<i>EnabledIsNotZero</i>	1 enables and 0 disables
-------------------------	--------------------------

**int SetResolutionAndROI (bool *fullResolution*, int *Left*, int *Top*, int *Width*, int *Height*)**

Enable/disable full resolution mode and sets capture block size and location

### Parameters

<i>fullResolution</i>	0 for fast resolution, 1 for full resolution
<i>Left</i>	The pixel X coordinate of the top left corner of the capture block
<i>Top</i>	The pixel Y coordinate of the top left corner of the capture block
<i>Width</i>	The width in pixels of the capture block - see standalone software for limitations
<i>Height</i>	The height in pixels of the capture block - see standalone software for limitations

**boolean SetROI (long *Left*, long *Top*, long *Width*, long *Height*)**

Sets the capture size and starting positions

### Parameters

<i>Left</i>	The starting horizontal position for capture
<i>Top</i>	The starting vertical position for capture
<i>Width</i>	The capture width
<i>Height</i>	The capture height

**void SetShutterState (int *shutterState*)**

Sets the shutter state of an SCD camera

### Parameters

<i>shutterState</i>	1 to open shutter, 2 to close shutter
---------------------	---------------------------------------

**int SetSoftwareApertureSizeTypeLocation (int *mode*, double *ratio*, double *umDiameter*, double *umWidth*, double *umHeight*, int *centerOnCoordinate*, double *umCoordinateX*, double *umCoordinateY*)**

Adjusts software aperture settings, including mode, size, and location

### Parameters

<i>mode</i>	Sets the mode of aperture (0 - 4)
<i>ratio</i>	Sets the beam width multiplier for size of aperture when mode = 1
<i>umDiameter</i>	Sets the diameter of the aperture in microns when mode = 2
<i>umWidth</i>	Sets the width of the aperture in microns when mode = 4
<i>umHeight</i>	Sets the height of the aperture in microns when mode = 4
<i>centerOnCoordina</i>	Sets center on coordinate option, true (1) or false (0)



<i>te</i>	
<i>umCoordinateX</i>	Sets the X value of the aperture center when center on coordinates is enabled
<i>umCoordinateY</i>	Sets the Y value of the aperture center when center on coordinates is enabled

- mode 0: Major Width X 3
- mode 1: Major Width X User Value
- mode 2: Fixed Diameter Circle
- mode 3: Aperture Off
- mode 4: Rectangular

## **void SetTargetCameraExposure (long *WhichCamera*, double *newValue*)**

Sets the exposure time of target camera in milliseconds

### **Parameters**

<i>WhichCamera</i>	The index of the camera from 0 to 7
<i>newValue</i>	Must be valid exposure setting between 0 to 1000

## **void SetTargetCameraGain (long *WhichCamera*, double *newValue*)**

Sets the gain of target camera

### **Parameters**

<i>WhichCamera</i>	The index of the camera from 0 to 7
<i>newValue</i>	Must be valid gain setting between 1.0 and 5.7

## **void SetVSKOffset (double *newValue*)**

Sets VSK offset value

### **Parameters**

<i>newValue</i>	Usually between -1.75 and 1.75
-----------------	--------------------------------

## **boolean SetWorkingDirectory (BSTR *WorkingDirectory*)**

Sets working directory for placement of DataRay files

### **Returns**

Returns true upon success

## **void StageSetPosition (double *position*)**

Moves stage to given position

## boolean StartDevice ()

Returns true on successful start of device

### Returns

True upon success

## boolean StartDriver ()

Starts the driver

### Returns

True upon success

## boolean StopDevice ()

Returns true on successful stop of device

### Returns

True upon success

## short ToggleDialog (short *IndexOfDialog*)

Toggles dialog defined by number; see list

- 34: Old beam calibration dialog
- 22: Beam calibration dialog
- 35: Fir hot adjust dialog
- 37: LCM registration dialog
- 38: OpenGL Test dialog
- 7: WinCam fluence dialog
- 15: Wander dialog
- 10: Logging dialog
- 19: WinCam logging dialog
- 20: Beam fit dialog

## boolean WriteSourceToImagerDistance (double *distance*)

Sets the source to imager distance in millimeters

## Parameters

<i>distance</i>	The distance in millimeters
-----------------	-----------------------------

## Member Data Documentation

### short AutoSnap

Gets and sets AutoSnap; it should be set between 0 and 3

- 0: snap to centroid
- 1: snap to center
- 2: snap to peak
- 3: snap to user defined point

### short BackgroundSubtraction

This gets and sets the background subtraction

It works the same as **SetBackgroundSubtraction2**, except Silent is set to 1 (True). The default of the standalone software is 1 and it uses some background subtraction, but not HyperCal. Setting this to 100 starts HyperCal.

### short BaselineLocked

Gets and sets the value for locked baseline; 1 is true and 0 is false

### short CentroidType

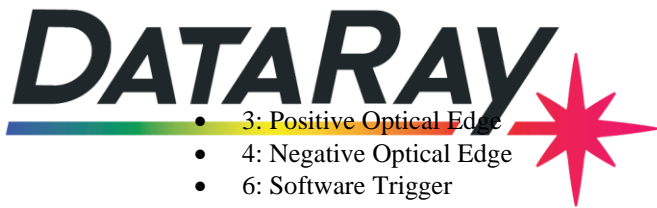
Gets and sets the centroid type value corresponding to the listed centroid methods; this must be between 0 and 2; a value outside of this range results in a setting of 0

- 0: Centroid Method 0:  $X_c = \frac{\sum[x.I(x,y)]}{\sum[I(x,y)]}$
- 1: Centroid Method 1:  $X_c = \frac{\sum[x.I((x,y))^2]}{\sum[I(x,y)^2]}$
- 2: Centroid Method 2:  $X_c = \frac{\sum[x.I((x,y))^3]}{\sum[I(x,y)^3]}$

### int LCMTriggerMode

Sets the LCM trigger mode

- 0: Freerun
- 1: Positive TTL Edge
- 2: Negative TTL Edge



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## short Palette

Getter and setter for palette selection; assigning a short sets it to one of the color palettes and accessing this property returns the current palette

- 1: high color
- 2: monochrome (greyscale)
- 3: 32 colors
- 4: 10 colors

Event dispatch interface for CGetDataCtrl control

### Public Member Functions

- void **SendMessage** (long Message, long LongValue, double DoubleValue)  
*Event fired every time a message is sent*
  
- void **DataReady** ()  
*Event fired every time new data becomes ready*

---

### Detailed Description

Event dispatch interface for CGetDataCtrl control

---

### Member Function Documentation

**void SendMessage** (long *Message*, long *LongValue*, double *DoubleValue*)

Event fired every time a message is sent

#### Parameters

<i>Message</i>	The message as defined by a number
<i>LongValue</i>	Occasionally has value
<i>DoubleValue</i>	Occasionally has value

Dispatch interface for CPaletteBarCtrl controls

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## Detailed Description

Dispatch interface for CPaletteBarCtrl controls

Dispatch interface for Profile controls

### Public Member Functions

- boolean **GetProfileData** (long \*LongBuffer\_32bit, long NumberOfLongs)  
*Upon successfully filling buffer, returns true*
- boolean **PutImagetoClipboard** ()  
*Upon putting an image to clipboard, it returns true*
- boolean **SaveImagetoFile** (BSTR FileNameWithPath)  
*Upon saving an image to the file, it returns true*
- boolean **EnableTopHat** (void)  
*Upon enabling TopHat view of given profile, it returns true*
- boolean **EnableGFit** (void)  
*Upon enabling Gaussian fit view of given profile, it returns true*
- VARIANT **GetProfileDataAsVariant** (void)  
*Gets the profile data as a variant*
- double **GetStepSize** (void)  
*Gets the step size*
- int **GetBaseline** (void)  
*Gets the baseline*
- long **FillVariantWithProfileData** (VARIANT \*var)  
*Fills given variant with profile data*
- double **GetGaussianFitWidthAtClip** (double clip)  
*Returns the gaussian fit clip width at the given clip level*

### Properties

- short **ProfileID**  
*Sets the profile type by ID number*

---

## Member Function Documentation

### boolean EnableGFit (void )

Upon enabling Gaussian fit view of given profile, it returns true

Either TopHat fit or Gaussian fit can be enabled; both cannot be enabled at the same time

### boolean EnableTopHat (void )

Upon enabling TopHat view of given profile, it returns true

Either TopHat fit or Gaussian fit can be enabled; both cannot be enabled at the same time

### long FillVariantWithProfileData (VARIANT \* var)

Fills given variant with profile data

#### Parameters

<i>var</i>	Pointer to a variant to be filled with profile data
------------	---

#### Returns

A standard HRESULT value; 0 if successful, error value if not

### int GetBaseline (void )

Gets the baseline

#### Returns

An int representing the baseline; 0 if not live

### double GetGaussianFitWidthAtClip (double clip)

Returns the gaussian fit clip width at the given clip level

#### Parameters

<i>clip</i>	The clip level to use in computing clip width, between 0.01 and 0.99
-------------	--

### boolean GetProfileData (long \* LongBuffer\_32bit, long NumberOfLongs)

Upon successfully filling buffer, returns true





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#### Parameters

<i>LongBuffer_32bit</i>	The buffer of long
<i>NumberOfLongs</i>	The size of the buffer

#### VARIANT GetProfileDataAsVariant (void )

Gets the profile data as a variant

#### Returns

Variant data is 1D array of 4-byte integers of length 2048

#### double GetStepSize (void )

Gets the step size

#### Returns

A double representing the step size

#### boolean SaveImagetoFile (BSTR *FileNameWithPath*)

Upon saving an image to the file, it returns true

#### Parameters

<i>FileNameWithPath</i>	The path and name of file to be saved
-------------------------	---------------------------------------

Dispatch interface for ShutterControl controls

### Public Member Functions

- boolean **SetID** (short ScrollID)  
*Sets the type of shutter as defined by its ID*
- void **AboutBox** ()  
*Displays an about box*

---

### Detailed Description

Dispatch interface for ShutterControl controls

---

### Member Function Documentation

#### boolean SetID (short ScrollID)

Sets the type of shutter as defined by its ID

#### Parameters

<i>ScrollID</i>	Must be 1 or 2
-----------------	----------------

Dispatch interface for CThreeDviewCtrl controls

### Public Member Functions

- boolean **PutImagetoClipboard** ()  
*Puts image to clipboard*
- boolean **SaveImagetoFile** (BSTR FileNameWithPath)  
*Saves image to designated file*

---

### Detailed Description

Dispatch interface for CThreeDviewCtrl controls

---

### Member Function Documentation

#### boolean SaveImagetoFile (BSTR *FileNameWithPath*)

Saves image to designated file

#### Parameters

<i>FileNameWithPath</i>	The filename and path combined
-------------------------	--------------------------------



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