

BeamGage Automation Interface

AutomatedBeamGage Class Hierarchy

AutomatedBeamGage (string instanceName, bool showGUI)

Construction of the AutomatedBeamGage class will instantiate an automation client. The instance of the AutomatedBeamGage class can then be used to easily access any of the AutomationInterfaces needed for control of the BeamGage® BeamGage Automation client. [More...](#)

			Legacy interface name
Interface	Instance [get]		
	Methods		
	void Shutdown ()	Shutdown is used to shutdown an automation instance More...	
		The Instance property provides direct access to the interface IAutomationInstance interface More...	IAutomationInstance
Interface	SaveLoadSetup [get]		
	Methods		
	AutomationSaveLoadStatus SaveSetup (string fileName)	Save a setup More...	
	AutomationSaveLoadStatus LoadSetup (string fileName)	Load a setup More...	
		The SaveLoadSetup property provides direct access to the IASaveLoadSetup interface More...	IASaveLoadSetup
Interface	SaveLoadData [get]		
	Methods		
	AutomationSaveLoadStatus SaveSetup (string fileName)	Save all the data currently buffered	
	AutomationSaveLoadStatus LoadSetup (string fileName)	Save a portion of the data currently buffered	
	AutomationSaveLoadStatus SaveSetup (string fileName)	Load data from a file	
	AutomationSaveLoadStatus LoadSetup (string fileName)	Load a portion of data from a file	
		The SaveLoadData property provides direct access to the IASaveLoadData interface More...	IASaveLoadData
Interface	DataSource [get]		
	Methods		
	void Start ()	Start the data source	
	void Stop ()	Stop the data source	
	Properties		
	string[] DataSourceList [get]	Get a list of available data sources	
	string DataSource [get, set]	Current data source property	
	ADataSourceStatus Status [get]	Current data source status	
		The DataSource property provides direct access to the IADataSource interface More...	IADataSource
Interface	Calibration [get]		
	Methods		
	void Ultracal ()	Execute Ultracal calibration	
	void SetupEGB ()	Execute SetupEGB auto-configuration	
	void AutoX ()	Enable AutoX mode	
	void IgnoreBeam ()	Call this operation when a beam is detected to ignore the beam.	
	Properties		
	CalibrationStatus Status [get]	The current status of the Calibration	
	Events		
	OnCalibrationStatusChange		
		The Calibration property provides direct access to the IACalibration interface More...	IACalibration
Interface	Processor [get]		
	Properties		
	bool UltracalSubtractionOn [get, set]	Turn on/off the subtraction of the ultracal frame	
	UInt16 Averaging [get, set]	Averaging property	
	UInt16 Summing [get, set]	Summing property	
		The Processor property provides direct access to the IAProcessor interface More...	IAProcessor

Interface	FramePriorityFrame [get]	The FramePriorityFrame property provides direct access to the IAFrame (frame priority) interface More...	IAFrame
	Methods		
	Int32 SingleFrameData [get]	The single 32bit integer value at the specified coordinate	
	double SingleDoubleData [get]	The single double frame data value at the specified coordinate	
	double SingleCalibratedData [get]	The single calibrated data value at the specified coordinate	
Properties			
	Int32[] FrameData [get]	An array of the 32bit integer frame data values	
	double[] DoubleData [get]	An array of the double frame data values	
	double[] CalibratedData [get]	An array of the frame calibrated data values	
	bool HasData [get]	A bool value indicating that the data in the frame is valid	
	int Width [get]	The width of the frame data	
	int Height [get]	The height of the frame data	
	int OriginalBpp [get]	The Bits per pixel value when the data originated	
	bool IsBaselineCalibrated [get]	Was the Ultracal or AutoX calibration completed for this frame	
	BaselineCalibrationStatus BaselineCalibrationStatus [get]	The calibration (BaselineCalibrationStatus) status for this frame	
	bool IsFrameCalibrated [get]	Was the Power/Energy calibration completed for this frame	
	FrameCalibrationStatus Calibration [get]	What type of Calibration has been done	
	AutomationPwrEngyUnitBase EnergyUnitsBase [get]	The base unit used for Power/Energy calibration	
	AutomationPwrEngyUnitQuantifier EnergyUnitsQuantifier [get]	The Quantifier used for Power/Energy calibration	
Events			
	OnNewFrame		

Interface	ResultsPriorityFrame [get]	The ResultsPriorityFrame property provides direct access to the IAFrame (results priority) interface More...	IAFrame
	Methods		
	Int32 SingleFrameData [get]	The single 32bit integer value at the specified coordinate	
	double SingleDoubleData [get]	The single double frame data value at the specified coordinate	
	double SingleCalibratedData [get]	The single calibrated data value at the specified coordinate	
Properties			
	Int32[] FrameData [get]	An array of the 32bit integer frame data values	
	double[] DoubleData [get]	An array of the double frame data values	
	double[] CalibratedData [get]	An array of the frame calibrated data values	
	bool HasData [get]	A bool value indicating that the data in the frame is valid	
	int Width [get]	The width of the frame data	
	int Height [get]	The height of the frame data	
	int OriginalBpp [get]	The Bits per pixel value when the data originated	
	bool IsBaselineCalibrated [get]	Was the Ultracal or AutoX calibration completed for this frame	
	BaselineCalibrationStatus BaselineCalibrationStatus [get]	The calibration (BaselineCalibrationStatus) status for this frame	
	bool IsFrameCalibrated [get]	Was the Power/Energy calibration completed for this frame	
	FrameCalibrationStatus Calibration [get]	What type of Calibration has been done	
	AutomationPwrEngyUnitBase EnergyUnitsBase [get]	The base unit used for Power/Energy calibration	
	AutomationPwrEngyUnitQuantifier EnergyUnitsQuantifier [get]	The Quantifier used for Power/Energy calibration	
Events			
	OnNewFrame		

Interface	PowerEnergyResults [get]	The PowerEnergyResults property provides direct access to the IAResultsPowerEnergy interface More...	IAResultsPowerEnergy
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Properties

double	Total [get]	ISO Total Pwr/Engy
double	AveragePowerDensity [get]	ISO Average Power Density
double	Peak [get]	ISO Peak Power/Energy
double	Minimum [get]	Minumum Power/Energy
double	PeakPulsePower [get]	ISO Peak Pulse Power
double	AveragePulsePower [get]	ISO Average Pulse Power
double	Effeciency [get]	ISO Efficiency
double	PercentInAperture [get]	Percent of power/energy in Aperture

Inherited Members from IAResults

void [Disable](#) (string name) Disable a result

Interface**[FrameInfoResults](#) [get]**

The [FrameInfoResults](#) property provides direct access to the [IAResultsFrameInfo](#) interface [More...](#)

[IAResultsFrameInfo](#)

Properties

double	Width [get]	Frame Width
double	Height [get]	Frame Height
double	Timestamp [get]	Frame Timestamp
double	BitsPerPixel [get]	Frame Bits per Pixel
double	PixelScaleX [get]	Frame X Pixel Scale
double	PixelScaleY [get]	Frame Y Pixel Scale
double	ScaleMultiplier [get]	Frame Scale Multiplier
double	OffsetX [get]	Frame X Offset
double	OffsetY [get]	Frame Y Offset
double	BinningX [get]	Frame X Binning
double	BinningY [get]	Frame Y Binning
double	Gamma [get]	Frame Gamma Correction Value
string	Comment [get]	Frame Comment

Inherited Members from IAResults

void [Disable](#) (string name) Disable a result

Interface**[DivergenceResults](#) [get]**

The [DivergenceResults](#) property provides direct access to the [IAResultsDivergence](#) interface [More...](#)

[IAResultsDivergence](#)

Properties

double	AngleXMajor [get]	Θ X/M - ISO Divergence Angle X/M
double	AngleYMinor [get]	Θ Y/m - ISO Divergence Angle Y/m
double	Angle [get]	Θ - ISO Divergence Angle
double	AngularFluence [get]	Angular Fluence - ISO Angular Fluence
double	RadiantIntensity [get]	Radiant Intensity - ISO Radiant Intensity

Inherited Members from IAResults

void [Disable](#) (string name) Disable a result

Interface**[TopHatResults](#) [get]**

The [TopHatResults](#) property provides direct access to the [IAResultsTopHat](#) interface [More...](#)

[IAResultsTopHat](#)

Properties

double	Flatness [get]	ISO Flatness Factor
double	EffectiveArea [get]	ISO Effective Area
double	Effective [get]	ISO Effective Power/Energy
double	Fractional [get]	ISO Fractional Power/Energy

double	EffectiveAverageFluence [get]	ISO Effective Average Fluence
double	Uniformity [get]	ISO Beam Uniformity
double	PlateauUniformity [get]	ISO Plateau Uniformity
double	EdgeSteepness [get]	ISO Edge Steepness

Inherited Members from IAResults

void	Disable (string name)	Disable a result
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The TopHatResults1D property provides direct access to the IAResults1DTopHat interface [More...](#)

[IAResults1DTopHat](#)

Interface [TopHatResults1D \[get\]](#)

Properties

double	Flatness (Axis a)	1D Flatness Factor
double	Effective (Axis a)	1D Effective Power/Energy
double	Fractional (Axis a)	1D Fractional Power/Energy
double	Uniformity (Axis a)	1D Beam Uniformity
double	PlateauUniformity (Axis a)	1D Plateau Uniformity
double	EdgeSteepness (Axis a)	1D Edge Steepness

Inherited Members from IAResults

void	Disable (string name)	Disable a result
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The GaussianResults property provides direct access to the IAResultsGaussian interface [More...](#)

[IAResultsGaussian](#)

Interface [GaussianResults \[get\]](#)

Properties

double	GaussHeightZg [get]	Gauss Height
double	DgXMajor [get]	Gauss Major Width
double	DgYMinor [get]	Gauss Minor Width
double	GaussCentroidX [get]	Gauss Centriod X
double	GaussCentroidY [get]	Gauss Centriod Y
double	GoodnessOfFit [get]	Gauss Goodness of Fit
double	RoughnessOfFit [get]	Gauss ISO Roughness of Fit
double	DeltaCentroidX [get]	Gauss Delta Centroid X
double	DeltaCentroidY [get]	Gauss Delta Centroid Y
double	DeltaCentroid [get]	Gauss Delta Centroid

Inherited Members from IAResults

void	Disable (string name)	Disable a result
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The GaussianResults1D property provides direct access to the IAResults1DGaussian interface [More...](#)

[IAResults1DGaussian](#)

Interface [GaussianResults1D \[get\]](#)

Properties

double	GaussHeightZg (Axis a)	1D Gauss Height
double	Dg (Axis a)	1D Gauss Width
double	GaussCentroid (Axis a)	1D Gauss Centroid
double	GoodnessOfFit (Axis a)	1D Goodness of Fit
double	RoughnessOfFit (Axis a)	1D Roughness of Fit
double	DeltaCentroid (Axis a)	1D Delta Centroid

Inherited Members from IAResults

void	Disable (string name)	Disable a result
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The SpatialResults property provides direct access to the IAResultsSpatial interface [More...](#)

[IAResultsSpatial](#)

Interface [SpatialResults \[get\]](#)

Properties

double	CentroidX [get]	ISO Centroid X
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double	CentroidY [get]	ISO Centroid Y
double	PeakLocationX [get]	ISO Peak Location X
double	PeakLocationY [get]	ISO Peak Location Y
double	D4SigmaMajor [get]	ISO D4 Sigma X Width
double	D4SigmaMinor [get]	ISO D4 Sigma Y Width
double	D4SigmaDiameter [get]	ISO D4 Sigma
double	KnifeEdgeMajor_10_90 [get]	Knife Edge Major Width 10/90
double	KnifeEdgeMinor_10_90 [get]	Knife Edge Minor Width 10/90
double	KnifeEdgeDiameter_10_90 [get]	Knife Edge Diameter 10/90
double	KnifeEdgeMajor_16_84 [get]	Knife Edge Major Width 16/84
double	KnifeEdgeMinor_16_84 [get]	Knife Edge Minor Width 16/84
double	KnifeEdgeDiameter_16_84 [get]	Knife Edge Diameter 16/84
double	KnifeEdgeMajorProgrammable [get]	Knife Edge Major Width Programmable
double	KnifeEdgeMinorProgrammable [get]	Knife Edge Minor Width Programmable
double	KnifeEdgeDiameterProgrammable [get]	Knife Edge Diameter Programmable
double	PercentOfPeakMajor [get]	Percent of Peak Major Width
double	PercentOfPeakMinor [get]	Percent of Peak Minor Width
double	PercentOfPeakDiameter [get]	Percent of Peak Diameter
double	MovingSlitMajor [get]	ISO Moving Slit Major Width
double	MovingSlitMinor [get]	ISO Moving Slit Minor Width
double	PercentOfTotalMajor [get]	Percent of Total Major Width
double	PercentOfTotalMinor [get]	Percent of Total Minor Width
double	PercentOfTotalDiameter [get]	Percent of Total Diameter
double	DepssM_95Point4 [get]	ISO Encircled Power Smallest Slit Major Width 95.4
double	Depssm_95Point4 [get]	ISO Encircled Power Smallest Slit Minor Width 95.4
double	Depsa_86Point5 [get]	ISO Encircled Power Smallest Aperture Diameter 86.5
double	DepsaProgrammable [get]	ISO Encircled Power Smallest Aperture Diameter Programmable
double	Orientation [get]	ISO Orientation (Off Axis)
double	Ellipticity [get]	ISO Ellipticity (Off Axis)
double	Eccentricity [get]	ISO Eccentricity (Off Axis)
double	CrossSectionArea [get]	ISO Cross-sectional Area
double	CursorToCrosshair [get]	Cursor to Crosshair distance
double	CentroidToCrosshair [get]	Centroid to Crosshair distance

Inherited Members from IAResults

void	Disable (string name)	Disable a result
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Interface

[BeamStabilityResults \[get\]](#)

The [BeamStabilityResults](#) property provides direct access to the [IAResultsBeamStability](#) interface [More...](#)

[IAResultsBeamStability](#)

Properties

int	SampleSize [get]	Number of samples collected
double	CenterX [get]	X Coordinate of the Center
double	CenterY [get]	Y Coordinate of the Center
double	LastX [get]	X Coordinate of the previous Center
double	LastY [get]	Y Coordinate of the previous Center
double	Azimuth [get]	Azimuth Angle
double	PositionalStabilityX [get]	Positional Stability along the azimuth

	double PositionalStabilityY [get]	Positional Stability orthogonal to the azimuth	
	double PositionalStability [get]	Radial distribution of the Positional Stability	
Inherited Members from IAResults			
	void Disable (string name)	Disable a result	
Interface	AutoAperture [get]	The AutoAperture property provides direct access to the IAAutoAperture interface More...	IAAutoAperture
	Properties		
	bool Enabled [get, set]	Enable/Disable the Auto aperture	
Interface	FrameBuffer [get]	The FrameBuffer property provides direct access to the IAFrameBuffer interface More...	IAFrameBuffer
	Properties		
	uint BufferSlot [set]	Selects a frame from the frame buffer	
	uint Current [get]	The current frame buffer index	
Interface	Commenting [get]	The Commenting property provides direct access to the IAComenting interface More...	IAComenting
	Properties		
	string CurrentFrameComment [get, set]		
	string CommentAllBufferedFrames [set]		
	bool CommentNewFrames [get, set]		
Interface	EGB [get]	The EGB property provides direct access to the IAPowerEnergy interface More...	IADatSourceEGB
	Methods		
	double RangeMax (EGBDesignator egb)		
	double RangeMin (EGBDesignator egb)		
	double Increment (EGBDesignator egb)		
	string Units (EGBDesignator egb)		
	void Set (EGBDesignator egb, double value)		
	double Get (EGBDesignator egb)		
Interface	PowerEnergy [get]	The PowerEnergy property provides direct access to the IAPowerEnergy interface More...	IAPowerEnergy
	Methods		
	void RemoveCalibration ()	Remove the calibration from the current frame	
	void CalibrateFrame (double inputValue, AutomationPwrEngyUnitBase b)	Calibrate the current frame with the input value and Base	
	void CalibrateFrame (double inputValue, AutomationPwrEngyUnitBase b, AutomationPwrEngyUnitQuantifier q)	Calibrate the current frame with the input value, Base and Quantifier	
Interface	Logger [get]	The Logger property provides direct access to the IALogger interface More...	IALogger
	Methods		
	void SetLogName (ALoggerTypes loggerType, string name)	Sets the file name for the logger	
	string GetLogName (ALoggerTypes loggerType)	Gets the current name for the logger	
	void EnableLogging (ALoggerTypes loggerType, bool OnOff)	Enable/disable a specified Logging type	
	bool LoggingEnabled (ALoggerTypes loggerType)	Queries if a specified type of logging is enabled	
	Properties		
	ALoggerSubscriptionTypes LoggerSubscription [get, set]	Sets and gets the current logging mode	
	uint Frames [get, set]	The number of frames to be processed when logging in Frame logging mode	
	uint Time [get, set]	The time to log frames when logging in Time logging mode	
Interface	Export [get]	The Export property provides direct access to the IAExport interface More...	IAExport

	Methods		
		<code>Save2DImage (String fileName, uint extNumber, uint frameBufferIndex, AExportStatus AExportFormat format)</code>	Export a 2D image
		<code>AExportStatus Save2DImage (uint extNumber, uint frameBufferIndex)</code>	Export a 2D image
Interface	ProgrammableSettings [get]		The ProgrammableSettings property provides direct access to the IAProgrammableSettings interface More... IAProgrammableSettings
	Methods		
		<code>void GetValue (AProgrammableSettingsNames name)</code>	Get a programmable setting value
		<code>double SetValue (AProgrammableSettingsNames name, double value=0.0)</code>	Set a programmable setting value
Interface	ExternalTrigger [get]		The ExternalTrigger property provides direct access to the IADataSourceExternalTrigger interface More... IADataSourceExternalTrigger
	Properties		
		<code>double DelayMax [get]</code>	Retrieve the maximum trigger in delay value
		<code>double DelayMin [get]</code>	Retrieve the minimum trigger in delay value
		<code>string DelayUnits [get]</code>	Retrieve the string that represents the units for trigger in delay values
		<code>double Delay [get, set]</code>	Get and Set for the Trigger In delay time
		<code>bool TriggerIn [get, set]</code>	Get and Set for triggering of the data source
		<code>ATriggerPolarity Polarity [get, set]</code>	Get and Set for the polarity of the trigger in
Interface	ManualAperture [get]		The ManualAperture property provides direct access to the IAManualAperture interface More... IAManualAperture
	Properties		
		<code>bool IsEnabled [get, set]</code>	Manual aperture enable
		<code>AApertureShape Shape [get, set]</code>	Manual Aperture Shape
		<code>int CenterX [get, set]</code>	Manual aperture center X value
		<code>int CenterY [get, set]</code>	Manual aperture center Y value
		<code>int Width [get, set]</code>	Manual aperture width
		<code>int Height [get, set]</code>	Manual aperture height
		<code>double Rotation [get, set]</code>	Manual aperture rotation
Interface	PartitionResults [get]		The PartitionResults property provides direct access to the IAPartitionResults interface More... IAPartitionResults
	Methods		
		<code>void SetPartition (string name=null)</code>	Use this function to specify which partition is to be used for all result values. A null value will designate the full frame.
	Properties		
		<code>IList<String> PartitionNames [get]</code>	Use this function to get a list of the available partitions
Interface	CustomCalculationResults [get]		The CustomCalculationResults property provides direct access to the IAResultsCustomCalculation interface More... IAResultsCustomCalculation
	Methods		
		<code>double Result (string name)</code>	Use this function to retrieve the result from a custom calculation
	Inherited Members from IAResults		
		<code>void Disable (string name)</code>	Disable a result
Interface	Partition [get]		The Partition property provides direct access to the IAPartition interface More... IAPartition
	Methods		
		<code>void Create (string name=null)</code>	Create a partition from the manual aperture
		<code>void Create (int centerX, int centerY, int width, int height, string name=null)</code>	Create a partition in a given location
		<code>void Delete (string name=null)</code>	Delete a partition
		<code>void Rename (string name, string oldName=null)</code>	Rename a partition

Properties

	double Value [get, set]	Get and Set the optical scale value
	bool Enable [get, set]	Get and set the enabling of the optical scale

Global Enumerations
AApertureShape

	Rectangle	Get: The shape of the manual aperture is a Rectangle/Square. Set: Set the manual aperture shape to a Rectangle
	Ellipse	Get: The shape of the manual aperture is an Ellipse/Circle. Set: Set the manual aperture shape to an Ellipse

AExportFormat

	NONE	NOTE: For internal BeamGage use only. Will result in an exception if used
	ASCII	Export ascii format (CSV)
	BMP	Export image as a Bitmap
	GIF	Export image as a Gif
	JPEG	Export image as a Jpeg
	PNG	Export image as a Png
	TIFF	Export image as a Tiff

AExportStatus

	GOOD	Export was successful
	BAD_FILE	File name is invalid
	BASE_FILE_EXISTS	There is a possibility that a file may be overwritten
	BASE_FILE_IS_DIRECTORY	File name is a directory
	NO_FILE_NAME	No base file name has be set
	NO_IMAGE	Image failed to generate
	READ_ONLY	File already exists and is read only

ALoggerSubscriptionTypes

	CONTINUOUS	Log all frames
	FRAMES	Log a specified number of frames
	TIME	Log for a specified time

ALoggerTypes

	BINARY	The logger will log Binary data files
	RESULTS	The logger will log Results
	SUM	The logger will log Column and Row sums
	CURSOR	The logger will log Cursor data
	ASCII	The logger will log ASCII data files

AProgrammableSettingsNames

	ThresholdPEValue	The Threshold P/E Density value (TopHat Results)
	ThresholdPEPercent	The Threshold P/E Density Percentage value is from 0.0 to 1.0 (TopHat Results)
	DivergenceUnitMRad	Set units to mrad (Divergence)
	DivergenceUnitDeg	Set units to degrees (Divergence)
	FocalLength	Focal Length (μm) (Focal Length)
	DetectorDistance	Distance from the detector (μm) (Far-Field Wide Angle)

SeparationDistance	Distance between two points (µm) (Far-Field Two Point)
FirstPointX	Major/X beam width (µm) (Far-Field Two Point)
FirstPointY	Minor/Y beam width (µm) (Far-Field Two Point)
FirstPointD	Beam diameter (µm) (Far-Field Two Point)
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ATriggerPolarity	
Negative	Trigger will initiate on falling edge of the TTL Signal
Positive	Trigger will initiate on the rising edge of the TTL Signal
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AutomationPwrEngyUnitBase	
JOULES	Base for Power/Energy units equals Joules
WATTS	Base for Power/Energy units equals Watts
NONE	No Power/Energy units
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AutomationPwrEngyUnitQuantifier	
KILO	Power/Energy base+e3
NONE	Power/Energy base (no quantifier)
MILLI	Power/Energy base-e3
MICRO	Power/Energy base-e6
NANO	Power/Energy base-e9
PICO	Power/Energy base-e12
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AutomationSaveLoadStatus	
SUCCESS	The Save/Load was successful
DOESNT_EXIST	The file or path indicated doesn't exist
PERSISTENCE_ERROR	The file being saved or the file being loaded is corrupted
READ_ONLY	The file being saved exists and is marked as read only
FILETYPE_ERROR	
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Axis	
X_Major	Result for the X/Major axis
Y_Minor	Result for the Y/Minor axis
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BaselineCalibrationStatus	
NotOn	No calibration method is enabled
Successful	Frame was successfully calibrated
AutoXAdjusting	This frame triggered an adjustment in settings for AutoX
Size	The Ultracal frame size differs from the generated frame size
Location	The Ultracal frame offset location differs from the generated frame location
Gain	The gain setting for the Ultracal frame differs from the generated frame's gain setting
Exposure	The exposure setting for the Ultracal frame differs from the generated frame's exposure setting
BlackLevel	The blackLevel setting for the Ultracal frame differs from the generated frame's blackLevel setting
BitsPerPixel	The Ultracal frame was generated with a different number of bits per pixel than the generated frame
Binning	Binning methods differ for the Ultracal and generated frames
BitEncoding	The bit encoding for the Ultracal frame differs from the generated frame's bit encoding
FrameRate	The Ultracal frame was generated at a different rate than the generated frame
Lens	Lens settings for the Ultracal and generated frame differ

CalibrationStatus		
NOT_SUPPORTED		The current data source does not support calibration
FAILED		Calibration did not complete successfully
CALIBRATING		Calibration in process
READY		Data source supports calibration (may or may not be calibrated)
BEAM_DETECTED		Calibration is halted because a beam is believed to be present
DataSourceStatus		
UNAVAILABLE		No data source is selected
RUNNING		Data source is running
PAUSED		Data source is paused
EGBDesignator		
EXPOSURE		Set/Get value for exposure
GAIN		Set/Get value for gain
BLACKLEVEL		Set/Get value for blacklevel
FrameCalibrationStatus		
NONE		No Power Energy Calibration applied
MANUAL		Manual Power Energy Calibration applied
INTERPOLATED		Calibration was interpolated from last manual calibration
POWER_METER		Power Energy Calibration was from a Power Meter