

ImgGrabber Tango Cpp Class

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ImgGrabber Class Identification :

Contact : at null - null
Class Family :
Platform :
Bus :
Manufacturer :
Manufacturer ref. :

ImgGrabber Class Inheritance :

- [Tango::DeviceImpl](#)
 - [ImgGrabber](#)

ImgGrabber Class Description :

ImgGrabber Properties :

There is no class properties

Device Properties			
Name	Description	Type	Default Value
PluginLocation	the full path to the ImgGrabber plugin	String	undefined
MoviePath	the path where the movie/images are recorded	String	none
MovieFormat	the format of the saved files : JPG, PNG, TIF, PGM, BMP, DIB, RAS	String	AVI
AutoStart	automatically start grabbing at init	boolean	none

ImgGrabber Class Commands				
Name	Input type	Output type	Level	Description
State	DEV_VOID	DEV_STATE	OPERATOR	This command gets the device state (stored in its <i>device_state</i> data member) and returns it to the caller.
Status	DEV_VOID	CONST_DEV_STRING	OPERATOR	This command gets the device status (stored in its <i>device_status</i> data member) and returns it to the caller.
Open	DEV_VOID	DEV_VOID	OPERATOR	None.
Close	DEV_VOID	DEV_VOID	OPERATOR	None.
Start	DEV_VOID	DEV_VOID	OPERATOR	None.
Stop	DEV_VOID	DEV_VOID	OPERATOR	None.
				saves a movie in the directory specified in the

StartSaveMovie	DEVVAR_DOUBLESTRINGARRAY	DEV_VOID	OPERATOR	MoviePath property, and with the format specified as MovieFormat.
StopSaveMovie	DEV_VOID	DEV_VOID	OPERATOR	immediately stops the movie saving
Snap	DEV_VOID	DEV_VOID	OPERATOR	None.
SetROI	DEVVAR_LONGARRAY	DEV_VOID	OPERATOR	None.
GetROI	DEV_VOID	DEVVAR_LONGARRAY	OPERATOR	None.
ResetROI	DEV_VOID	DEV_VOID	OPERATOR	None.
SaveSettings	DEV_VOID	DEV_VOID	OPERATOR	save the current acquisition parameters to the device Properties
GetPluginInfo	DEV_VOID	DEV_STRING	OPERATOR	Retrieves information about the grabber plugin used
ResetCamera	DEV_VOID	DEV_VOID	OPERATOR	None.

Command State :

This command gets the device state (stored in its *device_state* data member) and returns it to the caller.

State Definition		
Input Argument	Tango::DEV_VOID	none.
Output Argument	Tango::DEV_STATE	State Code
DisplayLevel	OPERATOR	..
Inherited	true	..
Abstract	true	..
Polling Period	Not polled	..
Command allowed for	All states	..

Command Status :

This command gets the device status (stored in its *device_status* data member) and returns it to the caller.

Status Definition		
Input Argument	Tango::DEV_VOID	none.
Output Argument	Tango::CONST_DEV_STRING	Status description
DisplayLevel	OPERATOR	..
Inherited	true	..
Abstract	true	..
Polling Period	Not polled	..
Command allowed for	All states	..

Command Open :

Open Definition		
Input Argument	Tango::DEV_VOID	
Output Argument	Tango::DEV_VOID	
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command NOT allowed for	• FAULT	..

Command Close :

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Close Definition		
Input Argument	Tango::DEV_VOID	
Output Argument	Tango::DEV_VOID	
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command NOT allowed for	• FAULT	..

Command Start :

Start Definition		
Input Argument	Tango::DEV_VOID	
Output Argument	Tango::DEV_VOID	
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command NOT allowed for	• FAULT	..

Command Stop :

Stop Definition		
Input Argument	Tango::DEV_VOID	
Output Argument	Tango::DEV_VOID	
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..

		..
Command NOT allowed for	• FAULT	..

Command StartSaveMovie :

saves a movie in the directory specified in the MoviePath property, and with the format specified as MovieFormat.

StartSaveMovie Definition		
Input Argument	Tango::DEVVAR_DOUBLESTRINGARRAY	duration of the movie & file base-name
Output Argument	Tango::DEV_VOID	
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

Command StopSaveMovie :

immediately stops the movie saving

StopSaveMovie Definition		
Input Argument	Tango::DEV_VOID	
Output Argument	Tango::DEV_VOID	
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

Command Snap :

Snap Definition		
Input Argument	Tango::DEV_VOID	
Output Argument	Tango::DEV_VOID	
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

Command SetROI :

SetROI Definition		
Input Argument	Tango::DEVVAR_LONGARRAY	[origin_x, origin_y, width, height]
Output Argument	Tango::DEV_VOID	
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

Command GetROI :

GetROI Definition		
Input Argument	Tango::DEV_VOID	
Output Argument	Tango::DEVVAR_LONGARRAY	[origin_x, origin_y, width, height]
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

Command ResetROI :

ResetROI Definition		
Input Argument	Tango::DEV_VOID	
Output Argument	Tango::DEV_VOID	
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

Command SaveSettings :

save the current acquisition parameters to the device Properties

SaveSettings Definition		
Input Argument	Tango::DEV_VOID	
Output Argument	Tango::DEV_VOID	

DisplayLevel Inherited	OPERATOR false
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

Command GetPluginInfo :

Retrieves information about the grabber plugin used

GetPluginInfo Definition		
Input Argument	Tango::DEV_VOID	
Output Argument	Tango::DEV_STRING	
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

Command ResetCamera :

ResetCamera Definition		
Input Argument	Tango::DEV_VOID	
Output Argument	Tango::DEV_VOID	
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

ImgGrabber Class Attributes							
Name	Inherited	Abstract	Attr. type	R/W type	Data type	Level	Description
CurrentlySavingMovie	false	false	Scalar	READ	Tango::DEV_BOOLEAN	OPERATOR	true if a movie is been saved
MovieRemainingTime	false	false	Scalar	READ	Tango::DEV_STRING	OPERATOR	The time remaining until the end of the movie currently beeing saved
Image	false	false	Image	READ	Tango::DEV_USHORT	OPERATOR	the acquired image

There is no dynamic attribute defined.

Attribute CurrentlySavingMovie :

true if a movie is been saved

Attribute Definition	
Attribute Type	Scalar
R/W Type	READ
Data Type	Tango::DEV_BOOLEAN
Display Level	OPERATOR
Inherited	false
Abstract	false

Attribute Properties	
label	Currently Saving Movie
unit	
standard unit	
display unit	
format	
max_value	
min_value	

Attribute Event Criteria	
Periodic	Not set
Relative Change	Not set
Absolute Change	Not set
Archive Periodic	Not set

Polling Period	Not polled
Memorized	Not set
Read allowed for	All states

max_alarm	
min_alarm	
max_warning	
min_warning	
delta_time	
delta_val	

Archive Relative Change	Not set
Archive Absolute Change	Not set
Push Change event by user code	false
Push Archive event by user code	false
Push DataReady event by user code	Not set

Attribute MovieRemainingTime :

The time remaining until the end of the movie currently being saved

Attribute Definition	
Attribute Type	Scalar
R/W Type	READ
Data Type	Tango::DEV_STRING
Display Level	OPERATOR
Inherited	false
Abstract	false
Polling Period	Not polled
Memorized	Not set
Read allowed for	All states

Attribute Properties	
label	Movie Remaining Time
unit	
standard unit	
display unit	
format	
max_value	
min_value	
max_alarm	
min_alarm	
max_warning	
min_warning	
delta_time	
delta_val	

Attribute Event Criteria	
Periodic	Not set
Relative Change	Not set
Absolute Change	Not set
Archive Periodic	Not set
Archive Relative Change	Not set
Archive Absolute Change	Not set
Push Change event by user code	false
Push Archive event by user code	false
Push DataReady event by user code	Not set

Attribute Image :

the acquired image

Attribute Definition	
Attribute Type	Image (2048 x 2048)
R/W Type	READ
Data Type	Tango::DEV_USHORT
Display Level	OPERATOR
Inherited	false
Abstract	false
Polling Period	Not polled
Memorized	Not set
Read NOT allowed for	<ul style="list-style-type: none">• FAULT

Attribute Properties	
label	Image
unit	
standard unit	
display unit	
format	
max_value	
min_value	
max_alarm	
min_alarm	
max_warning	
min_warning	
delta_time	
delta_val	

Attribute Event Criteria	
Periodic	Not set
Relative Change	Not set
Absolute Change	Not set
Archive Periodic	Not set
Archive Relative Change	Not set
Archive Absolute Change	Not set
Push Change event by user code	false
Push Archive event by user code	false
Push DataReady event by user code	Not set

ImgGrabber Class States	
Name	Description
OPEN	

CLOSE	
RUNNING	
STANDBY	
FAULT	
ALARM	