Autoscope

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Chapter 1

Hierarchical Index

1.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

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AutoscopeStelPluginInterface	. 30
QTcpServer	
TcpServer	. 47
QTcpSocket	
TcpClient	. 44
StelDialog	
AutoscopePictureWindowForm	. 22
AutoscopeWindowForm	. 31
StelModule	
Autoscope	. 7
StelPluginInterface	
AutoscopeStelPluginInterface	. 30

2 Hierarchical Index

Chapter 2

Class Index

2.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

Autoscope	
This class is use to retrieve and compute data for sending to the telescope, and call user inter-	
faces windows	
AutoscopePictureWindowForm	
This class is use to build a picture display interface to show to the user the last taken picture .	2
AutoscopeStelPluginInterface	
This class is used by Qt to manage a plug-in interface	30
AutoscopeWindowForm	
This class is use to build a configuration interface between the user and the plugin	3
TcpClient	
Allow to make usage of QTcpSocket more suitable for development	4
TcpServer	
Allow to make usage of QTcpServer more suitable for development	4

4 Class Index

Chapter 3

File Index

3.1 File List

Here is a list of all files with brief descriptions:

src/Autoscope.cpp	51
src/Autoscope.hpp	
Main plugin class	51
src/gui/AutoscopePictureWindowForm.cpp	53
src/gui/AutoscopePictureWindowForm.hpp	
Header file including the picture display window definition	53
src/gui/AutoscopeWindowForm.cpp	54
src/gui/AutoscopeWindowForm.hpp	
Header file including configuration window definition	54
src/network/tcp_client.cpp	55
src/network/tcp_client.hpp	
Header file including TCP client definition	56
src/network/tcp_server.cpp	57
src/network/tcp_server.hpp	57

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Chapter 4

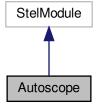
Class Documentation

4.1 Autoscope Class Reference

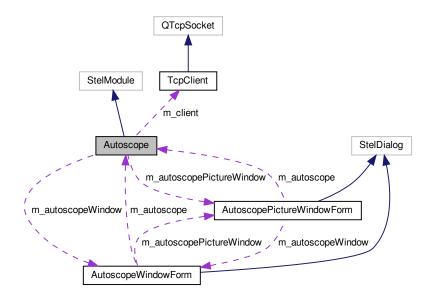
This class is use to retrieve and compute data for sending to the telescope, and call user interfaces windows.

#include <Autoscope.hpp>

Inheritance diagram for Autoscope:



Collaboration diagram for Autoscope:



Public Slots

• void showGui (void)

Enable the configuration menu.

void slotTrackObject (void)

Start tracking the selected object.

void slotUnTrackOject (void)

Stop tracking the tracked object.

• void slotEnablePictureDispaly (void)

Toggle the visibility of the picture display.

void slotTakePicture (void)

Send a command to the Autoscope to take a picture.

· void slotConnected (void)

Triggered when the plugin succeed to connect to the Autoscope.

Public Member Functions

• Autoscope ()

Builder of the Autoscope class.

virtual ~Autoscope ()

Destroyer of the Autoscope class.

· virtual void init ()

Init method is inherited form StelModule class and is use to initialize components sush as StelButton.

virtual void update (double)

Update method is inherited form StelModule class and is use to update components or methods. It's automatically called by StelModuleMgr.

• virtual void draw (StelCore *core)

Draw method is inherited form StelModule class and is use to draw components on the user interface.

virtual double getCallOrder (StelModuleActionName actionName) const

getCallOrder method

virtual bool configureGui (bool show)

ConfigureGui method is inherited from StelModule class and is use to show the user interface through the plugin manager.

void loadConfiguration ()

Method used to retrieve the configuration of the plugin.

· void restoreDefaultConfiguration ()

Method used to restore the default configuration of the plugin.

void getAltAzi (StelObjectP object)

Method used to retrieve the altitude and the azimuth of an object.

QString searchAnObject (QString objectName)

Method used to search an object by it's name.

void setTrackObject (StelObjectP object)

Method used to modify the object that the Autoscope should track.

void trackSelectedObject (void)

Method used to tarck the object selected by the user.

QString trackSearchedObject (void)

Method used to tarck the object search by the user.

void clearTrackedObject (void)

Method used to clear the current tracked object.

void moveObserverToObject (StelObjectP object)

Method used to move the view in Stellarium to an object.

AutoscopeWindowForm * getAutoscopeWindow (void)

Getter which allow any class which have an instance of Autoscope class to retrieve an instance of the configuration window.

AutoscopePictureWindowForm * getAutoscopePictureWindow (void)

Getter which allow any class which have an instance of Autoscope class to retrieve an instance of the picture window.

int getScreenWidth (void)

Getter allow any class which have an instance of Autoscope class to retrieve the width of the screen.

int getScreenHeight (void)

Getter allow any class which have an instance of Autoscope class to retrieve the height of the screen.

void setIpAddress (QString addr)

Setter used to set the IP address of the Autoscope.

void setPort (int port)

Setter used to set the port of the Autoscope.

void connectToAutoscope (void)

Method used to connect the plugin to the Autoscope.

void deconnectFromAutoscope (void)

Method used to disconnect the plugin from the Autoscope.

Public Attributes

StelMovementMgr * mvMgr

An instance of Stellarium movement manager and it's use to move the view in Stellarium.

StelObjectMgr * objectMgr

An instance of Stellarium object manager and it's use to retrieve selected object or search object by name.

Private Attributes

- QSettings * conf
- StelGui * gui
- AutoscopeWindowForm * m_autoscopeWindow

An instance of AutoscopeWindowForm class.

AutoscopePictureWindowForm * m_autoscopePictureWindow

An instance of AutoscopePictureWindowForm class.

• StelCore * m_core

An instance of StelCore.

- Vec3f markColor
- LinearFader markFader
- bool displayedAtStartup
- bool guilsVisible = false
- StelButton * menuButton
- StelButton * trackButton
- StelButton * unTrackButton
- StelButton * EnablePictureDisplay
- StelButton * takePicture
- · QFont font
- StelObjectP Sun
- StelObjectP trackObject
- StelObjectP selectedObject
- StelObjectP searchedObject
- Vec3d objectPosition
- QList< StelObjectP > newSelected
- bool searchObjectFound = false
- int m_screenWidth
- int m_screenHeight
- TcpClient * m_client

An instance of TcpClient class.

- QHostAddress m_autoscopelp
- int m_autoscopePort = 4444

4.1.1 Detailed Description

This class is use to retrieve and compute data for sending to the telescope, and call user interfaces windows.

4.1.2 Constructor & Destructor Documentation

4.1.2.1 Autoscope()

Autoscope::Autoscope ()

Builder of the Autoscope class.

4.1.2.2 ∼Autoscope()

```
Autoscope::~Autoscope ( ) [virtual]
```

Destroyer of the Autoscope class.

4.1.3 Member Function Documentation

4.1.3.1 clearTrackedObject()

Method used to clear the current tracked object.

4.1.3.2 configureGui()

ConfigureGui method is inherited from StelModule class and is use to show the user interface through the plugin manager.

Parameters

Returns

true if it doesn't crash!

See also

StelModule

4.1.3.3 connectToAutoscope()

Method used to connect the plugin to the Autoscope.

4.1.3.4 deconnectFromAutoscope()

Method used to disconnect the plugin from the Autoscope.

4.1.3.5 draw()

Draw method is inherited form StelModule class and is use to draw components on the user interface.

Parameters

```
core The object given by StelModuleMgr to draw forms
```

See also

StelModule

4.1.3.6 getAltAzi()

Method used to retrieve the altitude and the azimuth of an object.

Parameters

object The object that we want to retrieve data from

4.1.3.7 getAutoscopePictureWindow()

Getter which allow any class which have an instance of Autoscope class to retrieve an instance of the picture window.

Returns

An instance of the picture window

4.1.3.8 getAutoscopeWindow()

Getter which allow any class which have an instance of Autoscope class to retrieve an instance of the configuration window.

Returns

An instance of the configuration window

4.1.3.9 getCallOrder()

getCallOrder method

Parameters

actionName

See also

StelModule

Returns

4.1.3.10 getScreenHeight()

Getter allow any class which have an instance of Autoscope class to retrieve the height of the screen.

Returns

The height of the screen

4.1.3.11 getScreenWidth()

Getter allow any class which have an instance of Autoscope class to retrieve the width of the screen.

Returns

The width of the screen

4.1.3.12 init()

```
void Autoscope::init ( ) [virtual]
```

Init method is inherited form StelModule class and is use to initialize components sush as StelButton.

See also

StelModule

4.1.3.13 loadConfiguration()

```
void Autoscope::loadConfiguration ( )
```

Method used to retrieve the configuration of the plugin.

4.1.3.14 moveObserverToObject()

Method used to move the view in Stellarium to an object.

Parameters

object

4.1.3.15 restoreDefaultConfiguration()

```
void Autoscope::restoreDefaultConfiguration ( )
```

Method used to restore the default configuration of the plugin.

4.1.3.16 searchAnObject()

Method used to search an object by it's name.

Parameters

objectName	The name of the object
------------	------------------------

Returns

A string to display in the searchMessenger

4.1.3.17 setlpAddress()

Setter used to set the IP address of the Autoscope.

Parameters

addr The IP address of the Autoscope

4.1.3.18 setPort()

Setter used to set the port of the Autoscope.

Parameters

port The port of the Autoscope

4.1.3.19 setTrackObject()

Method used to modify the object that the Autoscope should track.

Parameters

```
object The object to track
```

4.1.3.20 showGui

Enable the configuration menu.

4.1.3.21 slotConnected

Triggered when the plugin succeed to connect to the Autoscope.

4.1.3.22 slotEnablePictureDispaly

Toggle the visibility of the picture display.

4.1.3.23 slotTakePicture

Send a command to the Autoscope to take a picture.

4.1.3.24 slotTrackObject

Start tracking the selected object.

4.1.3.25 slotUnTrackOject

Stop tracking the tracked object.

4.1.3.26 trackSearchedObject()

Method used to tarck the object search by the user.

Returns

A string to display in the searchMessenger

4.1.3.27 trackSelectedObject()

Method used to tarck the object selected by the user.

4.1.3.28 update()

```
void Autoscope::update ( double t ) [virtual]
```

Update method is inherited form StelModule class and is use to update components or methods. It's automatically called by StelModuleMgr.

See also

StelModule

4.1.4 Member Data Documentation

The Autoscope IP address

```
4.1.4.1 conf
QSettings* Autoscope::conf [private]
An instance of QSettings
4.1.4.2 displayedAtStartup
bool Autoscope::displayedAtStartup [private]
4.1.4.3 EnablePictureDisplay
StelButton* Autoscope::EnablePictureDisplay [private]
An instance of StelButton
4.1.4.4 font
QFont Autoscope::font [private]
An instance of Qfont
4.1.4.5 gui
StelGui* Autoscope::gui [private]
An instance of StelGui
4.1.4.6 guilsVisible
bool Autoscope::guiIsVisible = false [private]
A flag which represent the visibility of the configuration window
4.1.4.7 m_autoscopelp
QHostAddress Autoscope::m_autoscopeIp [private]
```

```
4.1.4.8 m_autoscopePictureWindow
```

```
AutoscopePictureWindowForm* Autoscope::m_autoscopePictureWindow [private]
```

An instance of AutoscopePictureWindowForm class.

See also

AutoscopePictureWindowForm

```
4.1.4.9 m_autoscopePort
```

```
int Autoscope::m_autoscopePort = 4444 [private]
```

The Autoscope IP port

4.1.4.10 m_autoscopeWindow

AutoscopeWindowForm* Autoscope::m_autoscopeWindow [private]

An instance of AutoscopeWindowForm class.

See also

AutoscopeWindowForm

```
4.1.4.11 m_client
```

```
TcpClient* Autoscope::m_client [private]
```

An instance of TcpClient class.

See also

TcpClient

```
4.1.4.12 m_core
```

```
StelCore* Autoscope::m_core [private]
```

An instance of StelCore.

4.1.4.13 m_screenHeight int Autoscope::m_screenHeight [private] The screen height 4.1.4.14 m_screenWidth int Autoscope::m_screenWidth [private] The screen width 4.1.4.15 markColor Vec3f Autoscope::markColor [private] 4.1.4.16 markFader LinearFader Autoscope::markFader [private] 4.1.4.17 menuButton StelButton* Autoscope::menuButton [private] An instance of StelButton 4.1.4.18 mvMgr StelMovementMgr* Autoscope::mvMgr An instance of Stellarium movement manager and it's use to move the view in Stellarium. See also StelMovementMgr 4.1.4.19 newSelected

QList<StelObjectP> Autoscope::newSelected [private]

A list of StelObjectP

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4.1.4.20 objectMgr

```
StelObjectMgr* Autoscope::objectMgr
```

An instance of Stellarium object manager and it's use to retrieve selected object or search object by name.

See also

StelObjectMgr

4.1.4.21 objectPosition

```
Vec3d Autoscope::objectPosition [private]
```

An instance of Vec3d

4.1.4.22 searchedObject

```
StelObjectP Autoscope::searchedObject [private]
```

An instance of StelObjectP

4.1.4.23 searchObjectFound

```
bool Autoscope::searchObjectFound = false [private]
```

A flag which indicates if the searched object has been found

4.1.4.24 selectedObject

```
StelObjectP Autoscope::selectedObject [private]
```

An instance of StelObjectP

4.1.4.25 Sun

```
StelObjectP Autoscope::Sun [private]
```

An instance of StelObjectP

4.1.4.26 takePicture

```
StelButton* Autoscope::takePicture [private]
```

An instance of StelButton

4.1.4.27 trackButton

StelButton* Autoscope::trackButton [private]

An instance of StelButton

4.1.4.28 trackObject

StelObjectP Autoscope::trackObject [private]

An instance of StelObjectP

4.1.4.29 unTrackButton

StelButton* Autoscope::unTrackButton [private]

An instance of StelButton

The documentation for this class was generated from the following files:

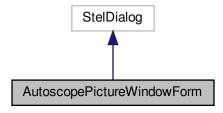
- src/Autoscope.hpp
- src/Autoscope.cpp

4.2 AutoscopePictureWindowForm Class Reference

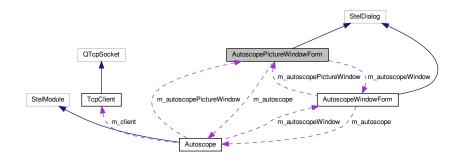
This class is use to build a picture display interface to show to the user the last taken picture.

#include <AutoscopePictureWindowForm.hpp>

Inheritance diagram for AutoscopePictureWindowForm:



Collaboration diagram for AutoscopePictureWindowForm:



Public Slots

• void retranslate ()

Inherited from the StelDialog class.

Public Member Functions

• AutoscopePictureWindowForm ()

Builder of the AutoscopePictureWindowForm class.

~AutoscopePictureWindowForm ()

Destroyer of the AutoscopePictureWindowForm class.

• void update ()

Method used to update calculation and displayed components.

• int getGuiHorizontalPosition (void)

Getter used to retrieve the horizontal gui position.

• int getGuiVerticalPosition (void)

Getter used to retrieve the vertical gui position.

· void setGuiHorizontalPosition (int)

Setter used to set the horizontal gui position.

void setGuiVerticalPosition (int)

Setter used to set the vertical gui position.

• int getGuiWidth (void)

Getter used to retrieve the gui width.

int getGuiHeight (void)

Getter used to retrieve the gui height.

void setGuiSize (int)

Setter used to set the gui size in percent of the screen.

void updateGuiSize (void)

Method used to update the size of the gui.

void setGuiOpacity (double)

Setter used to set the gui opacity.

· void updateGuiPosition (void)

Method used to update the gui position.

• void updateImage (QPixmap image)

Method used to update the image of the gui.

void setAutoscopeWindow (AutoscopeWindowForm *autoscopeWindow)

Setter used to initialize an instance of AutoscopeWindowForm class.

Protected Member Functions

• void createDialogContent ()

This method is inherited form the StelDialog class and is use to create the content of the dialog box.

Private Attributes

- Ui_AutoscopePictureWindowForm * ui
- Autoscope * m autoscope
- AutoscopeWindowForm * m_autoscopeWindow
- int m_width = 192
- int m_height = 108
- int m screenWidth
- · int m screenHeight
- int m_guiHorizontalPosition = 0
- int m_guiVerticalPosition = 0

4.2.1 Detailed Description

This class is use to build a picture display interface to show to the user the last taken picture.

4.2.2 Constructor & Destructor Documentation

4.2.2.1 AutoscopePictureWindowForm()

AutoscopePictureWindowForm::AutoscopePictureWindowForm ()

Builder of the AutoscopePictureWindowForm class.

4.2.2.2 ∼AutoscopePictureWindowForm()

 $\verb|AutoscopePictureWindowForm:: \sim \verb|AutoscopePictureWindowForm| ()$

Destroyer of the AutoscopePictureWindowForm class.

4.2.3 Member Function Documentation

4.2.3.1 createDialogContent()

```
void AutoscopePictureWindowForm::createDialogContent ( ) [protected]
```

This method is inherited form the StelDialog class and is use to create the content of the dialog box.

See also

StelDialog

4.2.3.2 getGuiHeight()

```
\label{lem:condition} \mbox{int AutoscopePictureWindowForm::getGuiHeight (} \\ \mbox{void )}
```

Getter used to retrieve the gui height.

Returns

The gui height

4.2.3.3 getGuiHorizontalPosition()

```
\label{lem:contact} \mbox{int AutoscopePictureWindowForm::} \mbox{getGuiHorizontalPosition (} \\ \mbox{void )}
```

Getter used to retrieve the horizontal gui position.

Returns

The horizontal gui position

4.2.3.4 getGuiVerticalPosition()

```
\label{lem:constraint} \mbox{int AutoscopePictureWindowForm::} \mbox{getGuiVerticalPosition (} \\ \mbox{void )}
```

Getter used to retrieve the vertical gui position.

Returns

The vertical gui position

4.2.3.5 getGuiWidth()

Getter used to retrieve the gui width.

Returns

The gui width

4.2.3.6 retranslate

```
void AutoscopePictureWindowForm::retranslate ( ) [slot]
```

Inherited from the StelDialog class.

See also

StelDialog

4.2.3.7 setAutoscopeWindow()

Setter used to initialize an instance of AutoscopeWindowForm class.

Parameters

auto	oscopeWindow	an instance of AutoscopeWindowForm class
------	--------------	--

4.2.3.8 setGuiHorizontalPosition()

```
void AutoscopePictureWindowForm::setGuiHorizontalPosition (  \qquad \qquad \text{int } i \text{ )} \\
```

Setter used to set the horizontal gui position.

Parameters

The	horizontal	ani	nosition	in	nixel
1110	HOHZOHILAH	qu.	position		DIACI

4.2.3.9 setGuiOpacity()

Setter used to set the gui opacity.

Parameters

```
the gui opacity
```

4.2.3.10 setGuiSize()

Setter used to set the gui size in percent of the screen.

Parameters

```
The gui size in percent of the screen
```

4.2.3.11 setGuiVerticalPosition()

```
void AutoscopePictureWindowForm::setGuiVerticalPosition (  \qquad \qquad \text{int } i \ )
```

Setter used to set the vertical gui position.

Parameters

```
The vertical gui position in pixel
```

4.2.3.12 update()

```
void AutoscopePictureWindowForm::update ( )
```

Method used to update calculation and displayed components.

```
4.2.3.13 updateGuiPosition()
```

```
\begin{tabular}{ll} \begin{tabular}{ll} void & Autoscope Picture Window Form:: update Gui Position ( \\ & void & ) \end{tabular}
```

Method used to update the gui position.

4.2.3.14 updateGuiSize()

Method used to update the size of the gui.

4.2.3.15 updateImage()

Method used to update the image of the gui.

Parameters

image

4.2.4 Member Data Documentation

4.2.4.1 m_autoscope

```
{\tt Autoscope*} \ {\tt AutoscopePictureWindowForm::m\_autoscope} \quad [{\tt private}]
```

An instance of the Autoscope class

4.2.4.2 m_autoscopeWindow

AutoscopeWindowForm* AutoscopePictureWindowForm::m_autoscopeWindow [private]

An instance of the AutoscopeWindowForm class

4.2.4.3 m_guiHorizontalPosition

int AutoscopePictureWindowForm::m_guiHorizontalPosition = 0 [private]

The horizontal position of the dialog box

4.2.4.4 m_guiVerticalPosition

int AutoscopePictureWindowForm::m_guiVerticalPosition = 0 [private]

The vertical position of the dialog box

4.2.4.5 m_height

int AutoscopePictureWindowForm::m_height = 108 [private]

The height of the dialog box

4.2.4.6 m_screenHeight

int AutoscopePictureWindowForm::m_screenHeight [private]

The height of the screen

4.2.4.7 m screenWidth

int AutoscopePictureWindowForm::m_screenWidth [private]

The width of the screen

4.2.4.8 m_width

int AutoscopePictureWindowForm::m_width = 192 [private]

The width of the dialog box

4.2.4.9 ui

Ui_AutoscopePictureWindowForm* AutoscopePictureWindowForm::ui [private]

An instance of the Ui_AutoscopePictureWindowForm class

The documentation for this class was generated from the following files:

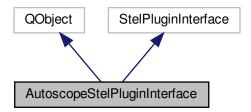
- src/gui/AutoscopePictureWindowForm.hpp
- src/gui/AutoscopePictureWindowForm.cpp

4.3 AutoscopeStelPluginInterface Class Reference

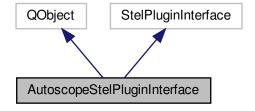
This class is used by Qt to manage a plug-in interface.

#include <Autoscope.hpp>

Inheritance diagram for AutoscopeStelPluginInterface:



Collaboration diagram for AutoscopeStelPluginInterface:



Public Member Functions

- virtual StelModule * getStelModule () const
- virtual StelPluginInfo getPluginInfo () const
- virtual QObjectList getExtensionList () const

4.3.1 Detailed Description

This class is used by Qt to manage a plug-in interface.

4.3.2 Member Function Documentation

4.3.2.1 getExtensionList()

virtual QObjectList AutoscopeStelPluginInterface::getExtensionList () const [inline], [virtual]

4.3.2.2 getPluginInfo()

StelPluginInfo AutoscopeStelPluginInterface::getPluginInfo () const [virtual]

4.3.2.3 getStelModule()

StelModule * AutoscopeStelPluginInterface::getStelModule () const [virtual]

The documentation for this class was generated from the following files:

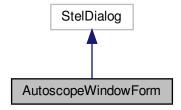
- src/Autoscope.hpp
- src/Autoscope.cpp

4.4 AutoscopeWindowForm Class Reference

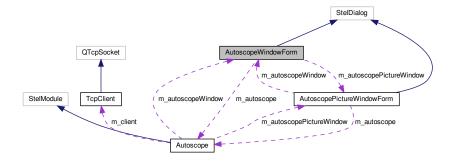
This class is use to build a configuration interface between the user and the plugin.

#include <AutoscopeWindowForm.hpp>

Inheritance diagram for AutoscopeWindowForm:



Collaboration diagram for AutoscopeWindowForm:



Public Slots

• void retranslate ()

Inherited from the StelDialog class.

void startButtonPressed (void)

Start initialization of the telescope.

void trackButtonPressed (void)

Start tracking the selected object.

void untrackButtonPressed (void)

Stop tracking the tracked object.

void takePictureButtonPressed (void)

Send a command to the telescope to take a picture.

void toggleDisplayButtonPressed (void)

Toggle the visibility of the picture display.

Public Member Functions

• AutoscopeWindowForm ()

Builder of the AutoscopeWindowForm class.

∼AutoscopeWindowForm ()

Destroyer of the AutoscopeWindowForm class.

· void update ()

Method used to update calculation and displayed components.

void setAutoscopePictureWindow (AutoscopePictureWindowForm *autoscopePictureWindow)

Setter used to initialize an instance of AutoscopePictureWindowForm class.

• int getGuiHorizontalPosition (void)

Getter used to retrieve the horizontal gui position.

int getGuiVerticalPosition (void)

Getter used to retrieve the vertical gui position.

int getScreenSizePercent (void)

Getter used to retrieve the value of the display size editor.

void updateGuiSize (void)

Method used to update the gui size.

• void updateGuiPosition (void)

Method used to update the gui position.

void toggleDisplay (void)

Method used to toggle the visibility of the picture display.

void updatelpMessengerText (QString)

Method used to update the IP messenger text.

Protected Member Functions

void createDialogContent ()

This method is inherited form the StelDialog class and it's use to create the content of the dialog box.

Private Slots

void moveToButtonPressed (void)

Move to an azimuth and an altitude.

void azimuthChanged (double)

Update azimuth value.

void altitudeChanged (double)

Update altitude value.

void searchObjectChanged (QString)

Update searched object.

· void searchButtonPressed (void)

Move to the searched object and track it.

void zoomChanged (int)

Update zoom value.

void exposureTimeChanged (double)

Update exposure time.

• void numberOfPictureChanged (int)

Update the number of picture taken at each time.

· void displaySizeChanged (int)

Update the size value of the picture display.

void horizontalDisplayPositionChanged (int)

Update the horizontal position value of the picture display.

· void verticalDisplayPositionChanged (int)

Update the vertical position value of the picture display.

void displayOpacityChanged (int)

Update the opacity value of the picture display.

void outputPictureDirectoryChanged (void)

Update the path to put picture into.

void outputPictureDirectoryButtonPressed (void)

Show directory browser to select the directory to put picture into.

· void downloadPictureButtonPressed (void)

Download the last picture taken.

· void ipAddressChanged (QString)

Update the IP address of the telescope.

void ipPortChanged (int)

Update the IP port of the telescope.

• void connectionButtonPressed (void)

Connect to the IP address and port.

void deconnectionButtonPressed (void)

Disconnect form the telescope.

Private Member Functions

void updateMaxMinSlider (void)

Method used to update max and min value of the position slider.

Private Attributes

- Ui_AutoscopeWindowForm * ui
- int m width = 600
- int m_height = 300
- int m_screenWidth
- · int m screenHeight
- int m_guiHorizontalPosition
- int m_guiVerticalPosition
- int screenSizePercent
- bool pictureWindowIsVisible = false
- Autoscope * m_autoscope

An instance of Autoscope class.

• AutoscopePictureWindowForm * m_autoscopePictureWindow

An instance of AutoscopePictureWindowForm class.

• QString picturedirectoryPath = ""

4.4.1 Detailed Description

This class is use to build a configuration interface between the user and the plugin.

4.4.2 Constructor & Destructor Documentation

4.4.2.1 AutoscopeWindowForm()

AutoscopeWindowForm::AutoscopeWindowForm ()

Builder of the AutoscopeWindowForm class.

4.4.2.2 ∼AutoscopeWindowForm()

 $\verb|AutoscopeWindowForm:: \sim \verb|AutoscopeWindowForm ()|$

Destroyer of the AutoscopeWindowForm class.

4.4.3 Member Function Documentation

4.4.3.1 altitudeChanged

```
void AutoscopeWindowForm::altitudeChanged ( \label{eq:double d } \mbox{double } d \; \mbox{)} \; \; [\mbox{private], [slot]}
```

Update altitude value.

4.4.3.2 azimuthChanged

```
void AutoscopeWindowForm::azimuthChanged ( double d ) [private], [slot]
```

Update azimuth value.

4.4.3.3 connectionButtonPressed

Connect to the IP address and port.

4.4.3.4 createDialogContent()

```
void AutoscopeWindowForm::createDialogContent ( ) [protected]
```

This method is inherited form the StelDialog class and it's use to create the content of the dialog box.

See also

StelDialog

4.4.3.5 deconnectionButtonPressed

Disconnect form the telescope.

4.4.3.6 displayOpacityChanged

Update the opacity value of the picture display.

4.4.3.7 displaySizeChanged

Update the size value of the picture display.

4.4.3.8 downloadPictureButtonPressed

Download the last picture taken.

4.4.3.9 exposureTimeChanged

```
\begin{tabular}{ll} \beg
```

Update exposure time.

4.4.3.10 getGuiHorizontalPosition()

```
\label{lem:control} \mbox{int AutoscopeWindowForm::getGuiHorizontalPosition (} \\ \mbox{void )}
```

Getter used to retrieve the horizontal gui position.

Returns

The horizontal gui position

4.4.3.11 getGuiVerticalPosition()

```
\label{lem:copeWindowForm::getGuiVerticalPosition (} \\ \text{void )}
```

Getter used to retrieve the vertical gui position.

Returns

The vertical gui position

4.4.3.12 getScreenSizePercent()

Getter used to retrieve the value of the display size editor.

Returns

The value of the display size editor

4.4.3.13 horizontalDisplayPositionChanged

Update the horizontal position value of the picture display.

4.4.3.14 ipAddressChanged

Update the IP address of the telescope.

4.4.3.15 ipPortChanged

Update the IP port of the telescope.

4.4.3.16 moveToButtonPressed

Move to an azimuth and an altitude.

4.4.3.17 numberOfPictureChanged

```
\label{lem:condition} \mbox{void AutoscopeWindowForm::numberOfPictureChanged (} \\ \mbox{int $i$ ) [private], [slot]}
```

Update the number of picture taken at each time.

4.4.3.18 outputPictureDirectoryButtonPressed

Show directory browser to select the directory to put picture into.

4.4.3.19 outputPictureDirectoryChanged

Update the path to put picture into.

4.4.3.20 retranslate

```
void AutoscopeWindowForm::retranslate ( ) [slot]
```

Inherited from the StelDialog class.

See also

StelDialog

4.4.3.21 searchButtonPressed

Move to the searched object and track it.

4.4.3.22 searchObjectChanged

Update searched object.

4.4.3.23 setAutoscopePictureWindow()

Setter used to initialize an instance of AutoscopePictureWindowForm class.

Parameters

autoscopePictureWindow | An instance of AutoscopePictureWindowForm class

4.4.3.24 startButtonPressed

Start initialization of the telescope.

4.4.3.25 takePictureButtonPressed

Send a command to the telescope to take a picture.

4.4.3.26 toggleDisplay()

Method used to toggle the visibility of the picture display.

4.4.3.27 toggleDisplayButtonPressed

```
\label{lem:condition} \mbox{void AutoscopeWindowForm::} toggleDisplayButtonPressed ( \\ \mbox{void }) \mbox{ [slot]}
```

Toggle the visibility of the picture display.

4.4.3.28 trackButtonPressed

Start tracking the selected object.

4.4.3.29 untrackButtonPressed

Stop tracking the tracked object.

4.4.3.30 update()

```
void AutoscopeWindowForm::update ( )
```

Method used to update calculation and displayed components.

4.4.3.31 updateGuiPosition()

```
\begin{tabular}{ll} \begin{tabular}{ll} void & AutoscopeWindowForm::updateGuiPosition ( \\ & void & ) \end{tabular}
```

Method used to update the gui position.

4.4.3.32 updateGuiSize()

Method used to update the gui size.

4.4.3.33 updatelpMessengerText()

```
void AutoscopeWindowForm::updateIpMessengerText ( {\tt QString}\ \textit{message}\ )
```

Method used to update the IP messenger text.

Parameters

```
the text to put in the messenger
```

4.4.3.34 updateMaxMinSlider()

Method used to update max and min value of the position slider.

4.4.3.35 verticalDisplayPositionChanged

Update the vertical position value of the picture display.

4.4.3.36 zoomChanged

```
void AutoscopeWindowForm::zoomChanged (  \qquad \qquad \text{int $i$ ) [private], [slot]}
```

Update zoom value.

4.4.4 Member Data Documentation

```
4.4.4.1 m_autoscope
Autoscope* AutoscopeWindowForm::m_autoscope [private]
An instance of Autoscope class.
See also
     Autoscope
4.4.4.2 m_autoscopePictureWindow
AutoscopePictureWindowForm* AutoscopeWindowForm::m_autoscopePictureWindow [private]
An instance of AutoscopePictureWindowForm class.
See also
     AutoscopePictureWindowForm
4.4.4.3 m_guiHorizontalPosition
int AutoscopeWindowForm::m_guiHorizontalPosition [private]
The gui horizontal position
4.4.4.4 m_guiVerticalPosition
int AutoscopeWindowForm::m_guiVerticalPosition [private]
The gui vertical position
4.4.4.5 m_height
```

int AutoscopeWindowForm::m_height = 300 [private]

The height of the dialog box

4.4.4.6 m_screenHeight

int AutoscopeWindowForm::m_screenHeight [private]

The height of the screen

4.4.4.7 m_screenWidth

int AutoscopeWindowForm::m_screenWidth [private]

The width of the screen

4.4.4.8 m_width

int AutoscopeWindowForm::m_width = 600 [private]

The width of the dialog box

4.4.4.9 picturedirectoryPath

QString AutoscopeWindowForm::picturedirectoryPath = "" [private]

The path where to put downloaded picture

4.4.4.10 pictureWindowlsVisible

bool AutoscopeWindowForm::pictureWindowIsVisible = false [private]

Flag which represent the visibility of the picture display window

4.4.4.11 screenSizePercent

int AutoscopeWindowForm::screenSizePercent [private]

The size of the dialog box in percent of the screen

4.4.4.12 ui

Ui_AutoscopeWindowForm* AutoscopeWindowForm::ui [private]

An instance of the Ui_AutoscopeWindowForm class

The documentation for this class was generated from the following files:

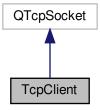
- src/gui/AutoscopeWindowForm.hpp
- src/gui/AutoscopeWindowForm.cpp

4.5 TcpClient Class Reference

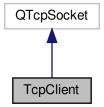
The TcpClient class allow to make usage of QTcpSocket more suitable for development.

```
#include <tcp_client.hpp>
```

Inheritance diagram for TcpClient:



Collaboration diagram for TcpClient:



Public Slots

void host_found_handler (void)

Handle host found.

void connected_handler (void)

Handle connection to host.

Public Member Functions

• TcpClient (QTcpSocket *parent=0)

Builder of the TcpClient class.

• TcpClient (QHostAddress host_address, quint16 port)

Builder of the TcpClient class.

∼TcpClient ()

Destroyer of the TcpClient class.

Private Attributes

- quint16 m_port
- QHostAddress m_host_address

4.5.1 Detailed Description

The TcpClient class allow to make usage of QTcpSocket more suitable for development.

4.5.2 Constructor & Destructor Documentation

Builder of the TcpClient class.

Parameters

parent	The parent of the TcpClient
--------	-----------------------------

4.5.2.2 TcpClient() [2/2]

```
TcpClient::TcpClient (
          QHostAddress host_address,
          quint16 port )
```

Builder of the TcpClient class.

Parameters

host_address	The address of the server		
port	The port of the server		

4.5.2.3 ∼TcpClient()

```
TcpClient::\simTcpClient ( )
```

Destroyer of the TcpClient class.

4.5.3 Member Function Documentation

```
4.5.3.1 connected_handler
```

Handle connection to host.

4.5.3.2 host_found_handler

Handle host found.

4.5.4 Member Data Documentation

4.5.4.1 m_host_address

```
QHostAddress TcpClient::m_host_address [private]
```

server host address

4.5.4.2 m_port

```
quint16 TcpClient::m_port [private]
```

server port

The documentation for this class was generated from the following files:

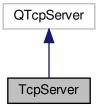
- src/network/tcp_client.hpp
- src/network/tcp_client.cpp

4.6 TcpServer Class Reference

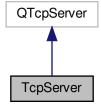
The TcpServer class allow to make usage of QTcpServer more suitable for development.

```
#include <tcp_server.hpp>
```

Inheritance diagram for TcpServer:



Collaboration diagram for TcpServer:



Public Slots

void create_socket (void) create_socket

Public Member Functions

- TcpServer ()
- TcpServer (bool autostart=0)
- TcpServer (QString &host_address, quint16 port=4444, bool autostart=0)
- ∼TcpServer ()
- · void start (void)

start

```
    void set_port (quint16 port)
        set_port
    void set_address (const char *address)
        set_address
    QTcpSocket * get_client (void)
        get_client
```

Private Attributes

```
• quint16 m_port
```

- QString m_host_address
- QTcpSocket * m_tcp_client

4.6.1 Detailed Description

The TcpServer class allow to make usage of QTcpServer more suitable for development.

4.6.2 Constructor & Destructor Documentation

4.6.3 Member Function Documentation

```
4.6.3.1 create_socket
void TcpServer::create_socket (
            void ) [slot]
create_socket
4.6.3.2 get_client()
QTcpSocket * TcpServer::get_client (
            void )
get_client
Returns
     client address for interacting with the client connected to the server
4.6.3.3 set_address()
void TcpServer::set_address (
           const char * address )
set_address
Parameters
 address
4.6.3.4 set_port()
void TcpServer::set_port (
             quint16 port )
set_port
```

Do					
Pа	ra	m	eı	re.	rs

```
port
```

```
4.6.3.5 start()
```

```
void TcpServer::start (
     void )
```

start

4.6.4 Member Data Documentation

```
4.6.4.1 m_host_address
```

```
QString TcpServer::m_host_address [private]
```

Client object used to communicate with the client connected to the server

```
4.6.4.2 m_port
```

```
quint16 TcpServer::m_port [private]
```

< Server port Server address

4.6.4.3 m_tcp_client

```
QTcpSocket* TcpServer::m_tcp_client [private]
```

The documentation for this class was generated from the following files:

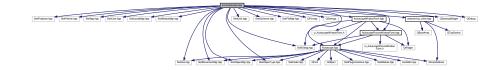
- src/network/tcp_server.hpp
- src/network/tcp_server.cpp

Chapter 5

File Documentation

5.1 src/Autoscope.cpp File Reference

```
#include "StelProjector.hpp"
#include "StelPainter.hpp"
#include "StelApp.hpp"
#include "StelCore.hpp"
#include "StelLocaleMgr.hpp"
#include "StelModuleMgr.hpp"
#include "Autoscope.hpp"
#include "StelUtils.hpp"
#include "StelObjectType.hpp"
#include "StelMovementMgr.hpp"
#include "StelObjectMgr.hpp"
#include "StelGui.hpp"
#include "StelGuiItems.hpp"
#include "StelFileMgr.hpp"
#include <QPixmap>
#include <QSettings>
#include "StelDialog.hpp"
#include "AutoscopeWindowForm.hpp"
#include "AutoscopePictureWindowForm.hpp"
#include "network/tcp_client.hpp"
#include <QDesktopWidget>
#include <QDebug>
Include dependency graph for Autoscope.cpp:
```



5.2 src/Autoscope.hpp File Reference

Main plugin class.

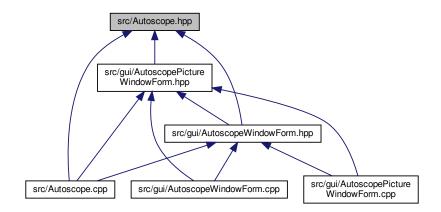
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```
#include "StelModule.hpp"
#include "StelGui.hpp"
#include "VecMath.hpp"
#include "StelFader.hpp"
#include <QFont>
#include "StelMovementMgr.hpp"
#include "StelObjectMgr.hpp"
#include "StelObjectType.hpp"

#include <QHostAddress>
#include <QObject>
#include "StelPluginInterface.hpp"
Include dependency graph for Autoscope.hpp:
```



This graph shows which files directly or indirectly include this file:



Classes

class Autoscope

This class is use to retrieve and compute data for sending to the telescope, and call user interfaces windows.

· class AutoscopeStelPluginInterface

This class is used by Qt to manage a plug-in interface.

5.2.1 Detailed Description

Main plugin class.

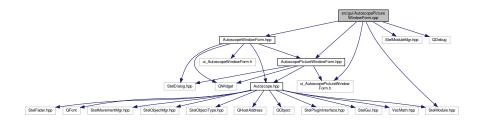
Author

thibaud-ledoledec

5.3 src/gui/AutoscopePictureWindowForm.cpp File Reference

```
#include "AutoscopePictureWindowForm.hpp"
#include "ui_AutoscopePictureWindowForm.h"
#include "AutoscopeWindowForm.hpp"
#include "StelModule.hpp"
#include "StelModuleMgr.hpp"
#include <QDebug>
```

Include dependency graph for AutoscopePictureWindowForm.cpp:



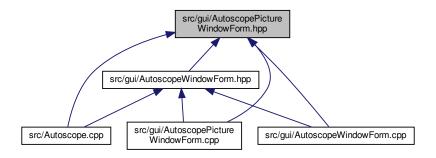
5.4 src/gui/AutoscopePictureWindowForm.hpp File Reference

Header file including the picture display window definition.

```
#include <QWidget>
#include "StelDialog.hpp"
#include "Autoscope.hpp"
#include "ui_AutoscopePictureWindowForm.h"
Include dependency graph for AutoscopePictureWindowForm.hpp:
```



This graph shows which files directly or indirectly include this file:



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Classes

class AutoscopePictureWindowForm

This class is use to build a picture display interface to show to the user the last taken picture.

5.4.1 Detailed Description

Header file including the picture display window definition.

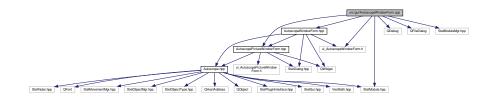
Author

thibaud-ledoledec

5.5 src/gui/AutoscopeWindowForm.cpp File Reference

```
#include "AutoscopeWindowForm.hpp"
#include "ui_AutoscopeWindowForm.h"
#include <QDebug>
#include <QFileDialog>
#include "AutoscopePictureWindowForm.hpp"
#include "StelModule.hpp"
#include "StelModuleMgr.hpp"
```

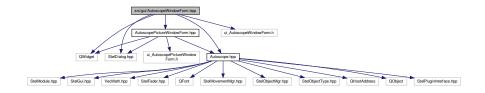
Include dependency graph for AutoscopeWindowForm.cpp:



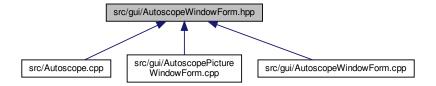
5.6 src/gui/AutoscopeWindowForm.hpp File Reference

Header file including configuration window definition.

```
#include <QWidget>
#include "StelDialog.hpp"
#include "Autoscope.hpp"
#include "ui_AutoscopeWindowForm.h"
#include "AutoscopePictureWindowForm.hpp"
Include dependency graph for AutoscopeWindowForm.hpp:
```



This graph shows which files directly or indirectly include this file:



Classes

• class AutoscopeWindowForm

This class is use to build a configuration interface between the user and the plugin.

5.6.1 Detailed Description

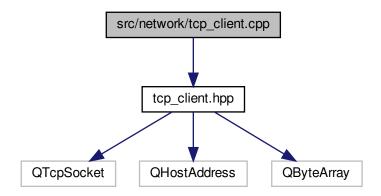
Header file including configuration window definition.

Author

thibaud-ledoledec

5.7 src/network/tcp_client.cpp File Reference

#include "tcp_client.hpp"
Include dependency graph for tcp_client.cpp:



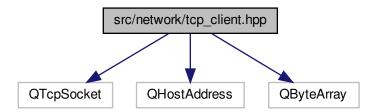
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5.8 src/network/tcp_client.hpp File Reference

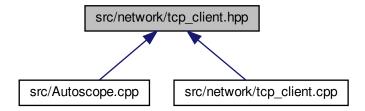
Header file including TCP client definition.

#include <QTcpSocket>
#include <QHostAddress>
#include <QByteArray>

Include dependency graph for tcp_client.hpp:



This graph shows which files directly or indirectly include this file:



Classes

• class TcpClient

The TcpClient class allow to make usage of QTcpSocket more suitable for development.

5.8.1 Detailed Description

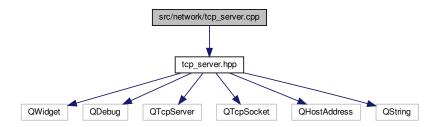
Header file including TCP client definition.

Author

clement-ailloud

5.9 src/network/tcp_server.cpp File Reference

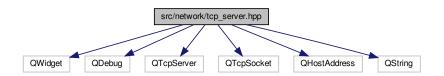
#include "tcp_server.hpp"
Include dependency graph for tcp_server.cpp:



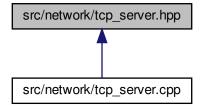
5.10 src/network/tcp_server.hpp File Reference

```
#include <QWidget>
#include <QDebug>
#include <QTcpServer>
#include <QTcpSocket>
#include <QHostAddress>
#include <QString>
```

Include dependency graph for tcp_server.hpp:



This graph shows which files directly or indirectly include this file:



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Classes

• class TcpServer

The TcpServer class allow to make usage of QTcpServer more suitable for development.