



Camera Selector CAM Series Q-SYS Plugin

Use this plugin to connect, control, and view the status of an INOGENI CAM300 or CAM230 device.

Version:

Date (d.m.y)	Programmer	Version	Comments
23.01.2023	David Conus	1.0	Initial release
06.11.2023	David Conus	2.0	Change plugin name (CAM Series) Add CAM230 control Add Cam PTZ control

Compatibility:

This last version of plugin was developed and tested with:

- Core110f (Ethernet + Serial)
- QSD v9.7.0 + v9.9.0
- CAM300 FW: 1.13.13 (minimum version to use the PTZ control)
- CAM230 FW: 2.0 / Board Rev: 2

Prerequisites:

See the User Guide available on the INOGENI website for installation and configuration of the CAM300 or CAM230.

Connecting to the Device:

To begin using the plugin, drag it into the schematic.

For a description of all configurable properties, see "Properties".

Press F5 (or F6 to emulate) to save your design to the Core and run it.

Double-click the plugin to open the control panel.

If you control the device by Ethernet: In the plugin's Connection tab > Connection Setup section, type the IP Address of the device and press Enter.

Only for CAM230: Specify the Token API if Activated. The Token API is an option you can manage since the CAM230 System configuration webpage. (Copy and Paste the full token from the webpage to the plugin text box). (See "Properties").

If you control the device by Serial the baud rate is automatically set. You can't change it (setting is 9600).

The plugin will automatically attempt a connection. If you see "OK" status, you are successfully connected to the device. If you see the "Missing" error, check to make sure you entered the correct parameters.

To help you to understand the fault you can select the debug mode for more information (see "Properties").

Notes:

- If the plugin does not load the device data and provided connection information, make sure the Q-SYS Core processor is on the same network as the device (Ethernet) or check the Baud rate setting or RS232 wiring (Serial). More about the RS232 wiring is available in the User Guide (see "Prerequisites").
- The CAM300 is not compatible with the DHCP protocol. Use a static IP address only.**

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Properties:

Show Debug

Select 'Yes' to show the Debug Output window. For details, see the Debug Output topic in the Q-SYS Help.

Debug Print

Select an Option depending of which kind of debug information you would like to show on the "Debug Output". For details, see the Debug Output topic in the Q-SYS Help.

Control Mode

Select the type of control you use to pilot your device: Ethernet (default) or Serial (RS-232).

Model

Select the model of device you have in your system: CAM300 (default) or CAM230.

Token API

Only for the CAM230: select Active or Inactive (default) depending on the option selected in the CAM230 settings webpage. (See "Connecting to the Device").

Connection Page:

Connection Setup

IP Address (To fill in)

The IP address of the CAM300/CAM230 device. (See the Note "b" on "Connecting to the Device").

Baud rate

Only for information, the Baud rate is automatically set. You can't change it (setting is 9600).

Token API (CAM230)

If Activated: Copy and Paste the full current REST API access token you find on the CAM230 settings webpage. (System -> Security -> REST API access token)

Connection Status

Displays the current connection status:

- **OK:** Plugin is connected to the unit
- **FAULT:** If any fault occurs, for example, incorrect token to access the API.
 - A text is written as an additional indication.
- **MISSING:** No device is found at the specified IP address or Serial Port missing.
 - A text is written as an additional indication.

Device Information

Firmware

Version of firmware installed in the CAM300/CAM230.

Board Rev

CAM230 only. Board firmware version.

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MAC Address

The MAC Address of the CAM300/CAM230 device. Not available for the CAM230 controlled by Serial.

Input Sync

Input signal detection status LED.

Basic Layouts Page:

Source 1, Source2, Source3, Source4 (only for CAM300)

Input 1, Input2, Input, Input4 to full screen.

Black (CAM300)

Toggle button for Mute / Unmute the video signal.

Test Pattern (CAM230)

Test Pattern (as selected on the settings webpage) to full screen.

Cam PTZ Page:

Pan Tilt

Moves the selected camera horizontally left and right and vertically up and down.

Zoom

Zoom In and Out of the selected camera image.

Controls Pins:

Pin Name	Value	String	Position	Pins Available
Basic Layouts:				
Black (CAM300)	0 / 1	false / true	0 / 1	Input / Output
Test Pattern (CAM230)	0 / 1	false / true	0 / 1	Input / Output
Source 1	0 / 1	false / true	0 / 1	Input / Output
Source 2	0 / 1	false / true	0 / 1	Input / Output
Source 3	0 / 1	false / true	0 / 1	Input / Output
Source 4 (CAM300)	0 / 1	false / true	0 / 1	Input / Output
Camera PTZ:				
Pan Left	0 / 1	false / true	0 / 1	Input
Pan Right	0 / 1	false / true	0 / 1	Input
Tilt Dn	0 / 1	false / true	0 / 1	Input
Tilt Up	0 / 1	false / true	0 / 1	Input
Zoom In	0 / 1	false / true	0 / 1	Input
Zoom Out	0 / 1	false / true	0 / 1	Input
Connection Setup:				
IP Address (Ethernet)	(text)			Input / Output

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Token API (CAM230 Ethernet)	(text)			Input / Output
Baud rate (Serial)	(text)			Output
Device Information:				
Firmware	(text)			Output
Board Rev (CAM230)	(text)			Output
MAC Address (CAM300 + CAM230 Ethernet)	(text)			Output
Input Sync:				
Source 1 USB	0 / 1	false / true	0 / 1	Output
Source 2 USB	0 / 1	false / true	0 / 1	Output
Source 3 HDMI	0 / 1	false / true	0 / 1	Output
Source 4 HDMI (CAM300)	0 / 1	false / true	0 / 1	Output
Connection Status	(text)			Output
Disable*	0 / 1	disable / enable	0 / 1	Input / Output

Disable*: Use this control pin to enable or disable the plugin in your design. When Disabled is set to enabled (value of 1), the Connection Status changes to "Not Present - Disabled".