



Camera Mixer SHARE2-SHARE2U Q-SYS Plugin

Use this plugin to connect, control, and view the status of an INOGENI SHARE2 or SHARE2U device.

Version:

Date (d.m.y)	Programmer	Version	Comments
16.12.2022	David Conus	1.0	Initial release
12.04.2023	David Conus	1.1	Fixes an issue with SHARE2 datas feedbacks
10.11.2023	David Conus	1.2	Add Cam PTZ control (SHARE2U)

Compatibility:

The plugin was developed and tested with:

- Core110f (Ethernet + Serial)
- QSD v9.7.0 + v9.9.0
- SHARE2U FW: 1.13.13 (minimum version to use the PTZ control)

Prerequisites:

See the User Guide available on the INOGENI website for installation and configuration of the SHARE2 or SHARE2U.

Connecting to the Device (SHARE2/SHARE2U):

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.

If you control the device by Serial:

- For SHARE2U: The baud rate is automatically set. You can't change it (setting is 9600).
- For SHARE2: In the plugin's Connection tab > Connection Setup section, selects the desired value from the Combo Box menu. If no selection is done, or if an incorrect value is entered from the Control Pin, the plugin will automatically set itself to the default value (9600). To change this value for SHARE2, see "Prerequisites".

The plugin will automatically attempt a connection. If you see "OK" status, you are successfully connected to the device. If you see a "Compromised" or "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 SHARE2 and SHARE2U are **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: SHARE2U (default) or SHARE2.

Connection Page:

Connection Setup

IP Address (To fill in)

The IP address of the SHARE2/SHARE2U device. (See the Note “b” on “Connecting to the Device”).

Baud rate

- For SHARE2U: Only for information, the Baud rate is automatically set. You can't change it (setting is 9600).
- For SHARE2: To select, the Baud rate of the unit, default is 9600.

Connection Status

Displays the current connection status:

- **OK:** Plugin is connected to the unit
- **MISSING:** No device is found at the specified IP address or Serial Port missing.
 - A text is written as an additional indication.
- **FAULT – Check your Device Properties (SHARE2 or SHARE2U):**
 - The plugin communicates with the unit, but the wrong model is defined, see “Properties”.

Device Information

Firmware

Version of firmware installed in the SHARE2/SHARE2U.

MAC Address (SHARE2U)

The MAC Address of the device.

Input Sync

Input signal detection status LED (similar to the front panel of the unit). Depending on the model chosen between SHARE2 and SHARE2U, the number and name of the inputs are automatically adapted.

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Basic Layouts Page:

Source 1

Input 1 to full screen.

Source 2

Input 2 to full screen. For SHARE2U: if HDMI and USB sources are connected to input 2, each event (button press or signal trigger on the block's input PIN) will act as a toggle between each type of signal (no status feedback available).

PIP

Picture in picture. Each press on this button changes the small window position at each corner.

Big and Small

Default Big and Small layout.

Side by Side

Default Side by Side layout.

Top and Bottom

Default Top and Bottom layout.

Black

Toggle button for Mute / Unmute the video signal.

Swap

Swap input 1 and input 2 for buttons: PIP, Side by Side and Big and Small. Each press on this button swap input 1 with input 2.

Save

Save the current configuration onboard for future use.

PIP Locations

Allows you to choose the position of the small window of the picture in picture (default background source).

Advanced Layouts Page:

PIP Locations

Allows you to choose the position of the small window of the picture in picture. Unlike the Basic Layouts mode, you can choose the background source (Input 1 or Input 2), see below.

Background Source

Allows you to choose the background image (Input 1 or Input 2) for PIP Mode.

If your actual layout is not in PIP mode, the selection will keep the entry in memory, but it will only be displayed after you have chosen a location (see above).

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Big and Small

Allows you to choose the left big image (Input 1 or Input 2). Unlike the Basic Layouts mode, you can choose the left source (Input 1 or Input 2), see below.

Side by Side

Allows you to choose the left image (Input 1 or Input 2). Unlike the Basic Layouts mode, you can choose the left source (Input 1 or Input 2), see below.

Left Source

Allows you to choose the Left image (Input 1 or Input 2) for Big and Small or Sidi by Side modes.

If you are not currently in one of these two modes, the selection will keep the entry in memory, but it will only be displayed after you have selected a mode (see above).

Black

Toggle button for Mute / Unmute the video signal. (Same function as for Basic Layouts).

Swap

Swap input 1 and input 2 for buttons: PIP, Side by Side and Big and Small. Each press on this button swap input 1 with input 2. (Same function as for Basic Layouts).

Save

Save the current configuration onboard for future use. (Same function as for Basic Layouts).

Input 2 Source (SHARE2U only)

Select the type of input if HDMI and USB sources are connected to input 2. (No status feedback available).

Cam PTZ Page (SHARE2U only):

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
Advanced Layouts > Big and Small & Side by Side > Left Source:				
Input 1	0 / 1	false / true	0 / 1	Input / Output
Input 2	0 / 1	false / true	0 / 1	Input / Output
Advanced Layouts > Big and Small & Side by Side:				
Big and Small	0 / 1	false / true	0 / 1	Input / Output
Side by Side	0 / 1	false / true	0 / 1	Input / Output
Advanced Layouts > PIP > Background Source:				
Input 1	0 / 1	false / true	0 / 1	Input / Output
Input 2	0 / 1	false / true	0 / 1	Input / Output

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Advanced Layouts > PIP > Locations:				
Bottom Left	0 / 1	false / true	0 / 1	Input / Output
Bottom Right	0 / 1	false / true	0 / 1	Input / Output
Top Left	0 / 1	false / true	0 / 1	Input / Output
Top Right	0 / 1	false / true	0 / 1	Input / Output
Advanced Layouts > Top and Bottom:				
Top Input 1	0 / 1	false / true	0 / 1	Input / Output
Top Input 2	0 / 1	false / true	0 / 1	Input / Output
Basic & Advanced Layouts:				
Black	0 / 1	false / true	0 / 1	Input / Output
Save	0 / 1	false / true	0 / 1	Input
Swap	0 / 1	false / true	0 / 1	Input
Basic Layouts > PIP Locations:				
Bottom Left	0 / 1	false / true	0 / 1	Input / Output
Bottom Right	0 / 1	false / true	0 / 1	Input / Output
Top Left	0 / 1	false / true	0 / 1	Input / Output
Top Right	0 / 1	false / true	0 / 1	Input / Output
Basic Layouts:				
Big and Small	0 / 1	false / true	0 / 1	Input / Output
Full Screen Source 1	0 / 1	false / true	0 / 1	Input / Output
Full Screen Source 2	0 / 1	false / true	0 / 1	Input / Output
PIP	0 / 1	false / true	0 / 1	Input / Output
Side by Side	0 / 1	false / true	0 / 1	Input / Output
Top and Bottom	0 / 1	false / true	0 / 1	Input / Output
Camera PTZ: (Share2U)				
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
Baud rate (Serial-Share2U)	(text)			Output
Baud rate (Serial-Share2)	(text)			Input / Output
Device Information:				
Firmware	(text)			Output
MAC (Share2U)	(text)			Output
Input 2 Source: (Share2U)				
HDMI	0 / 1	false / true	0 / 1	Input
USB	0 / 1	false / true	0 / 1	Input
Input Sync:				
Source 1 USB (Share2U)	0 / 1	false / true	0 / 1	Output
Source 2 HDMI (Share2U)	0 / 1	false / true	0 / 1	Output



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Source 2 USB (<i>Share2U</i>)	0 / 1	false / true	0 / 1	Output
Source 1 HDMI (<i>Share2</i>)	0 / 1	false / true	0 / 1	Output
Source 2 HDMI/VGA/ (<i>Share2</i>)	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".