

Epson, Projector

Plugin Description

The Epson Projector Q-SYS Plugin provides seamless integration and control of Epson projectors within the Q-SYS ecosystem. This plugin enables AV integrators and professionals to monitor and control an Epson projector directly from the Q-SYS environment via either a TCP/IP network connection or RS-232C serial connection.

By leveraging this plugin, Q-SYS users gain centralized control over power management, input selection, volume, audio mute, AV mute, image freeze, brightness settings, and comprehensive status monitoring. The plugin streamlines workflow efficiency by providing real-time device feedback and essential configuration controls within the familiar Q-SYS environment.

Key features

- **Power Management** - Complete power control with toggle button, discrete power on/off triggers, and detailed power status monitoring including standby, warmup, cool down, and active states.
- **Input Selection** - Flexible input management with a dynamic combo box for current input selection, per-input select buttons, and individual signal presence indicators for each configurable input.
- **Volume Control** - Full audio volume management with a fader, dedicated up/down momentary buttons, and audio mute toggle.
- **AV Mute & Freeze** - One-touch AV mute and image freeze controls for presentation management.
- **Brightness Control** - Optional brightness management including brightness mode selection, brightness level fader, and constant brightness toggle (when enabled via property).
- **Menu Navigation** - On-screen display navigation with Menu, ESC, OK, and directional arrow buttons for remote projector menu access.
- **Device Information Display** - Automatic retrieval and display of device serial number, total operation time, and lamp/laser operation time.
- **Dual Connection Support** - Supports both TCP/IP (Network) and RS-232C serial connections, adapting the setup interface accordingly.
- **Status Monitoring** - Real-time connection status indicator showing connected, reconnecting, timeout, wrong password, and error states.

Use cases

- Corporate boardroom and conference room AV control
- Higher education lecture halls and classrooms

- Digital cinema and screening room management
- Houses of worship and event venue presentation control
- Any Q-SYS deployment requiring centralized projector control

Configuration Overview

Plugin version

This document is written for the plugin :

- Epson Projector V1.1.0.0

Release note

2026-05 : V1.1.0.0

- Initial release to Q-SYS Library

2025-04 : V 1.1.0.0

- Added password control

2025-02 : V 1.0.2.0

- Corrected Power Status for: A/V standby / USB power standby

2024-10 : V 1.0.1.0

- Correct an error that prevents some commands from being polled

2024-06 : V 1.0.0.0

- Initial Release

QDS compatibility

This plugin has been developed and tested on :

- Q-SYS Designer version 9.13.1 / 10.0.x / 10.1.x / 10.2.0 and 10.2.1

Properties

Connection Type

Type: Enum

Choices: TCP/IP (Network) , RS-232C

Default Value: TCP/IP (Network)

Description: Selects the communication interface used to connect to the projector. When TCP/IP (Network) is selected, the Setup page will display IP Address and Password fields. When RS-232C is selected, those fields are hidden.

Poll Rate

Type: Integer

Min: 5

Max: 60

Default Value: 5

Description: Sets the polling interval in seconds. The plugin queries the projector status at this rate to keep controls synchronized with the device state.

Number of Inputs

Type: Integer

Min: 2

Max: 25

Default Value: 8

Description: Defines the number of input channels displayed in the Control page. Each input receives its own Name indicator, Select button, and Status LED.

Brightness Controls

Type: Boolean

Default Value: Yes

Description: When enabled, the Settings page displays additional brightness controls including Brightness Mode selection, Brightness fader, and Constant Brightness toggle. Disable this property if the connected projector model does not support brightness adjustment.

Debug Print

Type: Enum

Choices: None, Tx/Rx, Tx, Rx, Function Calls, All

Default Value: None

Description: Controls debug output for troubleshooting purposes. Set to Tx/Rx or All to log communication between the plugin and the projector in the Q-SYS Debug output.

Controls

Status

Status

Controls name: Status

Type: Indicator-Status

Description: Indicates the current connection and operational status of the plugin.

OK - Connected : The plugin is connected and communicating with the projector normally.

OK - Input Count Mismatch : Connected, but the projector returned a different number of inputs than configured.

Missing - Disconnected : The plugin is not connected to the projector.

Missing - Reconnecting : The plugin is attempting to re-establish the connection.

Missing - Timeout : No response was received from the projector within the timeout period.

Missing - No IP Address : No IP address has been entered in the Setup page.

Missing - Password missing : TCP/IP connection requires a password but none has been entered.

Fault - Wrong password : The password entered does not match the projector's monitor password.

Missing - Socket error : A network socket error occurred.

Missing - Socket closed : The network connection was closed by the projector.

Missing - Serial port error : An RS-232C serial port error occurred.

Setup Page

CONNECT TO PROJECTOR

IP Address

Controls name: IPAddress

Type: Text-Text Edit

Description: The IP address of the Epson projector on the network. Visible only when **Connection Type** is set to **TCP/IP (Network)**.

Password

Controls name: Password

Type: Text-Text Edit

Description: The monitor password configured on the Epson projector for network communication. Visible only when **Connection Type** is set to **TCP/IP (Network)**.

INFORMATION

Serial Number

Controls name: SerialNumber

Type: Indicator-Text

Description: Displays the serial number of the connected projector, retrieved automatically upon connection.

Operation Time

Controls name: OperationTime

Type: Indicator-Text

Description: Displays the total cumulative operation time of the projector (in hours).

Lamp/Laser Operation Time

Controls name: Lamp

Type: Indicator-Text

Description: Displays the accumulated lamp or laser operation time (in hours), useful for maintenance scheduling.

Control Page

PROJECTOR SECTION

Power

Controls name: Power

Type: Button-Toggle

Description: Toggle button used to turn the projector power on or off. The button is lit when the projector is powered on (power state 1, 2, or 3).

Power On

Controls name: PowerOn

Type: Button-Trigger

Description: One-shot trigger button for turning the projector power on. Sends a discrete power-on command to the projector.

Power Off

Controls name: PowerOff

Type: Button-Trigger

Description: One-shot trigger button for turning the projector power off. Sends a discrete power-off command to the projector.

Power Status Led

Controls name: PowerStatusLed

Type: Indicator-Led

Description: LED indicator showing the current power state of the projector. Lit when the projector is in an active power state (warming up, on, or cooling down).

Power Status

Controls name: PowerStatus

Type: Indicator-Text

Description: Displays the detailed power status string returned by the projector. Possible values include: Standby Mode (Network OFF), Laser ON, Warmup, Cool down, Standby Mode (Network ON), Abnormality standby, or A/V standby / USB power standby.

VOLUME SECTION

Volume Down

Controls name: VolumeDown

Type: Button-Momentary

Description: Press-and-hold button that continuously decrements the projector volume while held.

Volume

Controls name: Volume

Type: Knob-Integer

Min: 0

Max: 255

Description: Fader control for setting the projector audio volume level directly to a value between 0 and 255.

Volume Up

Controls name: VolumeUp

Type: Button-Momentary

Description: Press-and-hold button that continuously increments the projector volume while held.

Audio Mute

Controls name: AudioMute

Type: Button-Toggle

Description: Toggle button to enable or disable audio mute on the projector. When active (`true`), the projector audio output is muted.

INPUT SECTION

Current Input

Controls name: `CurrentInput`

Type: `Text-ComboBox`

Description: Dropdown combo box displaying the currently active input source. The list is populated dynamically from the projector's available input list. Select a value to switch the active input.

Current Input Signal

Controls name: `CurrentInputSignal`

Type: `Indicator-Led`

Description: LED indicator that lights when a valid signal is detected on the currently active input.

Input X Name

Controls name: `InputName X`

Type: `Indicator-Text`

Description: Displays the name of input X as reported by the projector. The number of inputs shown is determined by the **Number of Inputs** property (repeated for each input 1 through N).

Input X Select

Controls name: `InputSelect X`

Type: `Button-Toggle`

Description: Toggle button to select input X as the active source. Lights when input X is the currently active input (repeated for each input 1 through N).

Input X Status

Controls name: `InputStatus X`

Type: `Indicator-Led`

Description: LED indicator that lights when input X is the currently active source on the projector (repeated for each input 1 through N).

Settings Page

BRIGHTNESS & MUTES SECTION

AV Mute

Controls name: `AVMute`

Type: `Button-Toggle`

Description: Toggle button to enable or disable AV mute on the projector. When active, both the audio and video outputs are blanked simultaneously.

Freeze

Controls name: Freeze

Type: Button-Toggle

Description: Toggle button to freeze the current projected image. When active, the displayed image is held static while the input signal continues.

BRIGHTNESS SECTION (VISIBLE WHEN BRIGHTNESS CONTROLS PROPERTY IS ENABLED)

Brightness Mode

Controls name: BrightnessMode

Type: Text-ComboBox

Description: Dropdown combo box for selecting the projector brightness mode. Possible values include: Normal, Quiet/Eco, Medium, Auto, Extended, and Custom (availability depends on the projector model).

Brightness Fader

Controls name: Brightness

Type: Knob-Integer

Min: 0

Max: 255

Description: Fader control for adjusting the projector brightness level directly, from 0 (minimum) to 255 (maximum).

Brightness Constant

Controls name: BrightnessConstant

Type: Button-Toggle

Description: Toggle button to enable or disable the constant brightness mode on the projector, maintaining consistent light output over the lamp/laser life.

MENU SECTION

Key Menu

Controls name: NavMenu

Type: Button-Trigger

Description: Trigger button that sends the Menu key command to the projector, opening or closing the on-screen display menu.

Settings Key ESC

Controls name: NavEsc

Type: Button-Trigger

Description: Trigger button that sends the ESC key command to the projector, navigating back or cancelling the current menu action.

Settings Key Ok

Controls name: NavOk

Type: Button-Trigger

Description: Trigger button that sends the OK/Enter key command to the projector, confirming the currently highlighted menu option.

Settings Key Up

Controls name: NavUp

Type: Button-Momentary

Description: Press-and-hold button that sends repeated Up navigation commands to the projector on-screen menu.

Settings Key Down

Controls name: NavDown

Type: Button-Momentary

Description: Press-and-hold button that sends repeated Down navigation commands to the projector on-screen menu.

Settings Key Left

Controls name: NavLeft

Type: Button-Momentary

Description: Press-and-hold button that sends repeated Left navigation commands to the projector on-screen menu.

Settings Key Right

Controls name: NavRight

Type: Button-Momentary

Description: Press-and-hold button that sends repeated Right navigation commands to the projector on-screen menu.

Control Pins

PIN NAME	VALUE	STRING	POSITION	PINS AVAILABLE
Status	-	-	-	-

Status	0 1 2 3 4 5	(String)	-	Output
Setup	-	-	-	-
IP Address	-	(String)	-	Input / Output
Password	-	(String)	-	Input / Output
Serial Number	-	(String)	-	Output
Operation Time	-	(String)	-	Output
Lamp/Laser Operation Time	-	(String)	-	Output
Control — Power	-	-	-	-
Power	0 1	false true	0 1	Input / Output
Power On	(Trigger)	-	-	Input / Output
Power Off	(Trigger)	-	-	Input / Output
Power Status Led	0 1	false true	0 1	Output
Power Status	-	(String)	-	Output
Control — Volume	-	-	-	-
Volume Down	(Momentary)	-	-	Input / Output
Volume	0 - 255	(String)	0 - 1	Input / Output
Volume Up	(Momentary)	-	-	Input / Output
Audio Mute	0 1	false true	0 1	Input / Output
Control — Input	-	-	-	-
Current Input	-	(String)	-	Input / Output

Current Input Signal	0 1	false true	0 1	Output
Input X Name	-	(String)	-	Output
Input X Select	0 1	false true	0 1	Input / Output
Input X Status	0 1	false true	0 1	Output
Input X Name	-	(String)	-	Output
Input X Select	0 1	false true	0 1	Input / Output
Input X Status	0 1	false true	0 1	Output
Settings	-	-	-	-
AV Mute	0 1	false true	0 1	Input / Output
Freeze	0 1	false true	0 1	Input / Output
Brightness Mode	-	(String)	-	Input / Output
Brightness Fader	0 - 255	(String)	0 - 1	Input / Output
Brightness Constant	0 1	false true	0 1	Input / Output
Settings — Menu	-	-	-	-
Key Menu	(Trigger)	-	-	Input / Output
Key ESC	(Trigger)	-	-	Input / Output
Key Ok	(Trigger)	-	-	Input / Output
Key Up	(Momentary)	-	-	Input / Output
Key Down	(Momentary)	-	-	Input / Output
Key Left	(Momentary)	-	-	Input / Output
Key Right	(Momentary)	-	-	Input / Output

