AVO-IPCTL-SDV Q-SYS Plugin Guide

For Q-SYS Designer · Plugin version 1.1.0

The KanexPro AVO-IPCTL-SDV plugin lets a Q-SYS system control an AVO-IPCTL-SDV and the boxes in its list. It controls the AVO-IPCTL-SDV straight over the network, on the AVO-IPCTL-SDV's own control port (Telnet 23). No other KanexPro software is needed. Every control has a pin, and the plugin reads the controller back, so changes made on the AVO-IPCTL-SDV's own page or by another system show in Q-SYS.

Before you start — the Q-SYS Core must reach the AVO-IPCTL-SDV's CTRL port on Telnet port 23, and Telnet must be on in the AVO-IPCTL-SDV's own page (it is on as shipped).

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1. WHAT THE PLUGIN DOES

It controls: encoder, picture on, video mute, show ID, screen on, matrix presets, wall preset.

It reads back: boxes.

Each decoder row picks the encoder that decoder shows; All decoders sends one encoder to every decoder. The other columns of a row act on that decoder alone. Presets and wall presets recall the ones saved on the AVO-IPCTL-SDV. The rows are the AVO-IPCTL-SDV's decoders 1 to 16 and encoders 1 to 64, numbered as the AVO-IPCTL-SDV numbers them.

Installer settings (streams, I/O ports, layouts, the network, logins and firmware) stay on the AVO-IPCTL-SDV's own page.

2. BEFORE YOU START

- ✓ Q-SYS Designer on a Windows computer, and a Q-SYS Core.
- ✓ The AVO-IPCTL-SDV set up, with its encoders and decoders added to its list.
- ✓ The AVO-IPCTL-SDV's IP address (its CTRL port).
- ✓ Telnet port 23 open from the Core to the AVO-IPCTL-SDV.

3. INSTALL THE PLUGIN

1. Download **KanexPro-AVO-IPCTL-SDV-QSYS-1.1.0.zip** from the AVO-IPCTL-SDV page on kanexpro.com (Resources) and unzip it.
2. Copy `KanexPro-AVO-IPCTL-SDV.qplug` into `Documents\QSC\Q-Sys Designer\Plugins` on the Q-SYS Designer computer, or drag the file onto Designer's window.
3. Restart Q-SYS Designer. The plugin appears in Schematic Elements under **Plugins > KanexPro**.
4. Drag it into the design, select it and set its properties (section 4).
5. Save the design to the Core and run it. The plugin connects by itself and shows its state on its Status control.

One plugin per unit — for two AVO-IPCTL-SDV units, add the plugin twice and give each its own IP address.

4. PROPERTIES

PLUGIN PROPERTIES	
IP Address	The AVO-IPCTL-SDV's address on the control network (its CTRL port). Empty by default.
Port	23 (Telnet), the AVO-IPCTL-SDV's control port. Leave it unless the controller's own page moves it. Default 23.
Poll Interval	How often it reads the controller back (0 = only after a change). Default 10 s.

5. THE PLUGIN IN Q-SYS DESIGNER



The AVO-IPCTL-SDV plugin's control panel in Q-SYS Designer

6. CONTROLS

122 controls. Where a control is repeated for each decoder or wall, it is listed once.

#	Control	Where	What it does
0	**Status**	the plugin	Shows whether the plugin is connected to the unit, and why not (section 7).
1	**Encoder (all outputs)**	each output	Sends one encoder to every decoder at once.
2	**Encoder**	each output	Picks the encoder this decoder shows.
3	**Picture on**	each output	Turns this decoder's picture on or off.
4	**Video mute**	each output	Mutes this decoder's video while on.
5	**Show ID**	each output	Shows this decoder's ID on its screen while on.
6	**Screen on**	each output	Turns this decoder's screen on or off over HDMI-CEC.
7	**Matrix presets**	buttons 1 to 30	Recalls that matrix preset, saved on the controller.
8	**Wall preset**	each wall	Recalls a wall preset on that video wall, saved on the controller.
9	**Boxes**	the unit	Shows how many encoders and decoders the controller has in its list.

7. STATUS

STATUS CONTROL	
OK (green)	Connected to the AVO-IPCTL-SDV and reading it back.
Initializing (blue)	Connecting. It tries again every few seconds by itself.

Fault (red)	Not connected, with the reason: the AVO-IPCTL-SDV does not answer, or the connection was refused or closed.
Compromised (orange)	Connected, but the AVO-IPCTL-SDV refused the last change. The text names it.
Not Present (grey)	No IP address is set in the plugin's properties.

8. TROUBLESHOOTING

The Status control shows Fault and it does not connect.
Check the IP Address property against the AVO-IPCTL-SDV's CTRL port address (its own page, or its front panel). A controller on DHCP may have moved; give it a fixed address or a DHCP reservation.

Could a firewall be blocking it?
Yes. A firewall or switch ACL between the Core and the AVO-IPCTL-SDV must allow TCP port 23. Telnet must also be on in the AVO-IPCTL-SDV's own page, at port 23; if that page moved it, set the Port property to match.

It connects, but a change does not happen.
The Status control shows Compromised and names what the AVO-IPCTL-SDV refused, for example a encoder number that is not in its list.

Changes made elsewhere do not show in Q-SYS.
Set Poll Interval above 0. Changes made on the AVO-IPCTL-SDV's own page or by another system then show within that many seconds.