AVO-IPJP2K-DEC Q-SYS Plugin Guide

For Q-SYS Designer · Plugin version 1.1.0

The KanexPro AVO-IPJP2K-DEC plugin lets a Q-SYS system control one AVO-IPJP2K-DEC. It controls the AVO-IPJP2K-DEC through its AVO-IPCTL-JP2K controller, on the controller's control port (Telnet 23). Connect it to the controller's address; the AVO-IPJP2K-DEC is named by its decoder number in the controller's list. No other KanexPro software is needed. Every control has a pin, and the plugin reads the decoder back, so changes made on the AVO-IPCTL-JP2K's own page or by another system show in Q-SYS.

Before you start — the Q-SYS Core must reach the AVO-IPCTL-JP2K's CTRL port on Telnet port 23, and Telnet must be on in the AVO-IPCTL-JP2K's own page (it is on as shipped).

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1. WHAT THE PLUGIN DOES

It controls: encoder, picture, sound, freeze, ID on screen.

It reads back: online, screen connected.

Shows encoder picks what this AVO-IPJP2K-DEC shows (an encoder's number in the AVO-IPCTL-JP2K's list; Nothing blanks it). The Decoder buttons turn its picture on and off, mute it, freeze it and show its ID on its screen.

Installer settings (streams, I/O ports, layouts, the network, logins and firmware) stay on the AVO-IPCTL-JP2K's own page.

2. BEFORE YOU START

- ✓ Q-SYS Designer on a Windows computer, and a Q-SYS Core.
- ✓ The AVO-IPCTL-JP2K set up, with this AVO-IPJP2K-DEC added to its list.
- ✓ The AVO-IPCTL-JP2K's IP address (its CTRL port), and this AVO-IPJP2K-DEC's decoder number in its list.
- ✓ Telnet port 23 open from the Core to the AVO-IPCTL-JP2K.

3. INSTALL THE PLUGIN

1. Download **KanexPro-AVO-IPJP2K-DEC-QSYS-1.1.0.zip** from the AVO-IPJP2K-DEC page on kanexpro.com (Resources) and unzip it.
2. Copy `KanexPro-AVO-IPJP2K-DEC.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.

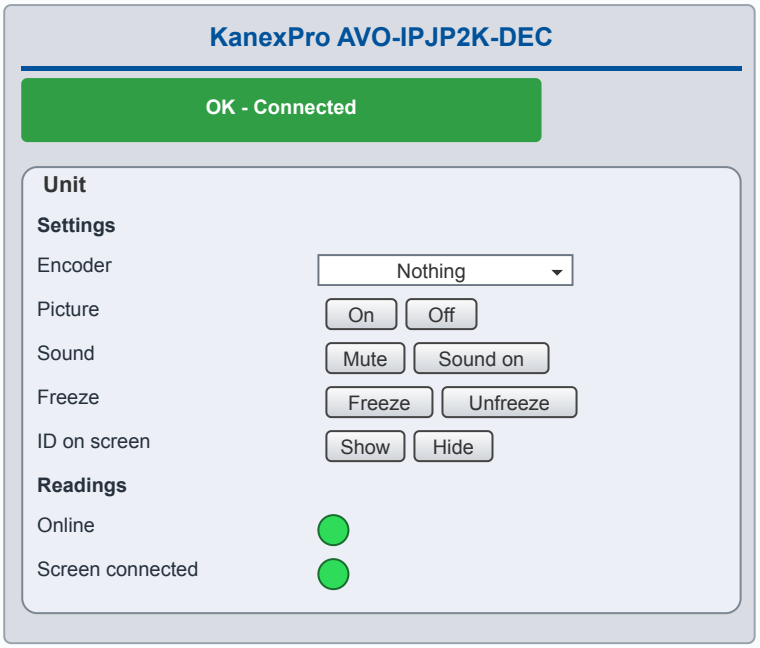
One plugin per unit — for two AVO-IPJP2K-DEC units, add the plugin twice and give each its own decoder number.

4. PROPERTIES

PLUGIN PROPERTIES	
IP Address	The AVO-IPCTL-JP2K's address on the control network (its CTRL port). Empty by default.

Port	23 (Telnet), the AVO-IPCTL-JP2K's control port. Leave it unless the controller's own page moves it. Default 23.
Decoder Number	This AVO-IPJP2K-DEC's decoder number in the AVO-IPCTL-JP2K's list (its own page, or GET STATUS). Default 1.
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-IPJP2K-DEC plugin's control panel in Q-SYS Designer

6. CONTROLS

12 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**	the unit	Picks the encoder this decoder shows, by its number in the controller's list (Nothing blanks it).
2	**Picture**	buttons 1 to 2	Turns the decoder's picture on.
3	**Sound**	buttons 1 to 2	Mutes the decoder's sound.
4	**Freeze**	buttons 1 to 2	Freezes the picture.
5	**ID on screen**	buttons 1 to 2	Shows the decoder's ID on its screen.
6	**Online**	the unit	Lit when the controller reports online.
7	**Screen connected**	the unit	Lit when the controller reports screen connected.

7. STATUS

STATUS CONTROL	
OK (green)	Connected to the AVO-IPCTL-JP2K 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-JP2K does not answer, or the connection was refused or closed.
Compromised (orange)	Connected, but the AVO-IPCTL-JP2K refused the last change. The text names it.

Not Present (grey)	No IP address, or no decoder number, 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-JP2K'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-JP2K must allow TCP port 23. Telnet must also be on in the AVO-IPCTL-JP2K's own page, at port 23; if that page moved it, set the Port property to match.

It connects, but shows the wrong box or none.
Check the Decoder Number property: it is the decoder's number in the AVO-IPCTL-JP2K's list, not its IP address.

It connects, but a change does not happen.
The Status control shows Compromised and names what the AVO-IPCTL-JP2K 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-JP2K's own page or by another system then show within that many seconds.