AVO-IPJP2K-ENC Q-SYS Plugin Guide

For Q-SYS Designer · Plugin version 1.1.0

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

It reads back: online, picture in.

Show on decoder puts this AVO-IPJP2K-ENC on the decoder picked (a decoder's number in the AVO-IPCTL-JP2K's list).

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-ENC added to its list.
- ✓ The AVO-IPCTL-JP2K's IP address (its CTRL port), and this AVO-IPJP2K-ENC's encoder 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-ENC-QSYS-1.1.0.zip** from the AVO-IPJP2K-ENC page on kanexpro.com (Resources) and unzip it.
2. Copy `KanexPro-AVO-IPJP2K-ENC.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.

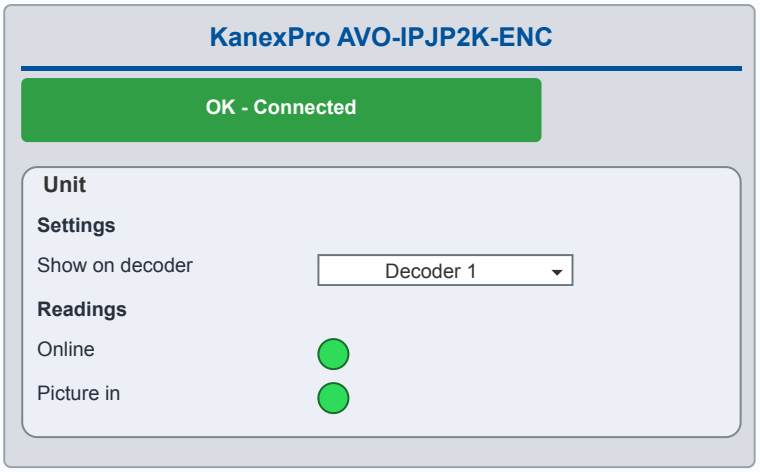
> **One plugin per unit —** for two AVO-IPJP2K-ENC units, add the plugin twice and give each its own encoder number.

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.

Encoder Number	This AVO-IPJP2K-ENC's encoder 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-ENC plugin's control panel in Q-SYS Designer

6. CONTROLS

4 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	**Show on decoder**	the unit	Shows this AVO-IPJP2K-ENC on the decoder picked, by its number in the controller's list.
2	**Online**	the unit	Lit when the controller reports online.
3	**Picture in**	the unit	Lit when the controller reports picture in.

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 encoder 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 Encoder Number property: it is the encoder'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 decoder 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.