

4K60 4:4:4 JPEG2000 AV over IP Decoder

Add Visually Lossless 4K Displays over Standard 1G — Bidirectional IR & RS-232, Dante-Ready, 9×9 Video Wall

MPN: AVO-IPJP2KS-DEC



OVERVIEW

Adds a visually lossless 4K60 display to your AV-over-IP system over the standard 1G copper network you already have — no 10G, no fiber. A slim single-LAN JPEG2000 AV-over-IP decoder, the AVO-IPJP2KS-DEC outputs 4K60 4:4:4 with HDR10, Dolby Vision, and HLG, and passes bidirectional IR, RS-232, and CEC — the right choice for command centers, corporate, education, and digital signage where display points grow independently of sources.

It receives any AVO-IPJP2KS encoder's stream by unicast or multicast, drives matrix switching and video wall up to 9×9, and extracts analog audio to a 3-pin Phoenix output, with an MJPEG sub-stream for VLC preview. Dante AV-A audio is available when license-activated. Powered by PoE 802.3af or the included DC 12V supply and managed by the AVO-IPCTL-JP2K controller, it turns 4K display expansion into a simple add-on. Encoders (AVO-IPJP2KS-ENC) sold separately.

1 PRODUCT OVERVIEW

DESIGNED FOR

AV/IT integrators scaling visually lossless 4K60 display endpoints in a JPEG2000-over-IP system independently of the number of encoders.

THE CHALLENGE

Adding a 4K display in bundled kits means buying an encoder you don't need, and 10G/SDVoE endpoints over-serve 1G-copper jobs at a premium while H.264/265 gives up visual quality.

THE KANEXPRO ADVANTAGE

Brings JPEG2000 visually lossless 4K60 to every display endpoint over 1G copper with bidirectional IR/RS-232/CEC and Dante AV-A readiness — sold standalone so display points scale without redundant encoders, on the AVO-IPCTL-JP2K ecosystem.

2 PRODUCT POSITIONING

The AVO-IPJP2KS-DEC is the slim JPEG2000 AV-over-IP decoder for integrators who need to add visually lossless 4K60 display endpoints over standard 1G copper — independent of source count and without over-buying 10G hardware.

3 SALES ANALYSIS

CHANNEL FIT

AV/IT distribution and rep firms; online-reseller ready as a single decoder SKU, reordered as display points grow.

DEAL SIZE & SALES CYCLE

Typical order value \$5K–\$60K per venue; decoders reorder as displays are added. 4–12 week initial cycle.

COMMON OBJECTIONS

"Why not SDVoE?" — 1G-copper cost + visually lossless fit.
"Needs a managed switch" — switch list + IGMP.

WIN / LOSS THEMES

Wins on scaling visually lossless 4K endpoints without redundant encoders; loses to SDVoE when uncompressed/zero-frame is required.

TOP USE CASES TO CLOSE

- 1 Phased 4K signage/control-room expansions adding display points.
- 2 Video-wall builds needing many visually lossless 4K decoders per source.

4 APPLICATIONS



Command & Control

Distribute and control visually lossless 4K sources across operator walls with 9×9 composition over existing 1G copper.



Corporate & Boardroom

Route 4K60 content to boardrooms and huddle displays with IR/serial control, no 10G upgrade required.



Education & Lecture Capture

Send visually lossless 4K to classrooms and overflow rooms from a central source over standard cabling.



Digital Signage

Drive 4K signage walls and menu boards with HDR and 9×9 video-wall layouts over 1G.



Broadcast & Production

Feed monitoring and review displays with visually lossless 4K and Dante AV-A audio where quality matters.



Government & SCADA

Extend and control secure 4K operator views to remote consoles over a managed 1G network.

5 WHO THIS IS FOR

AV/IT Integrators

System Engineers

Command Centers

Corporate AV

Education

Digital Signage

Ideal User

Command-center / AV-IT integrator scaling visually lossless 4K display endpoints in a JPEG2000-over-IP system.

Project Types

Command & control, corporate AV, education, digital signage, broadcast/production, government.

Typical Buyer

Integration firm principal or lead engineer; reseller category buyer for online reorders.

6 KANEXPRO PRODUCT COMPARISON

Where each KanexPro AV-over-IP product fits, so reps can steer to the right SKU:

MODEL	BEST FOR	KEY CAPABILITY	HOW IT DIFFERS
AVO-IPJP2KS-DEC	Adding 4K display endpoints	4K60 JPEG2000 decoder (Slim)	Add one per display without buying encoders (this product)
AVO-IPJP2KS-ENC	Distributing visually lossless 4K	4K60 JPEG2000 encoder (Slim)	Distributes one 4K source over 1G copper with IR/serial control
AVO-IPJP2K	Fuller I/O JPEG2000 jobs	4K60 JPEG2000 (USB-KVM, ARC/eARC, fiber option)	Choose when USB-KVM or fiber is required
AVO-IPSDV-4K	Uncompressed zero-frame 4K	10G SDVoE	Steps up to SDVoE when uncompressed zero-latency is required

For visually lossless 4K60 command centers, corporate, education, and signage on standard 1G copper, pair AVO-IPJP2KS-ENC encoders with AVO-IPJP2KS-DEC decoders in the exact ratio each job needs, all managed by the AVO-IPCTL-JP2K controller; step up to SDVoE only when uncompressed zero-frame latency is required.

7 FREQUENTLY ASKED QUESTIONS

Q: Why is the decoder sold separately?

So integrators add 4K display endpoints without buying redundant encoders, and KanexPro can list a single JP2K-Slim decoder SKU online.

Q: Can I add displays later?

Yes — drop in a decoder, pair it to an encoder via the AVO-IPCTL-JP2K controller or RS-232, and it joins the system.

Q: Is it visually lossless 4K?

Yes — it outputs 4K60 4:4:4 with HDR10/Dolby Vision/HLG from any AVO-IPJP2KS encoder over 1G copper.

Q: Why not SDVoE?

For 1G-copper 4K it is far lower cost; SDVoE is for uncompressed zero-frame-latency jobs that justify 10G.

Q: How is decoder audio handled?

Analog stereo is extracted to a 3-pin Phoenix output; Dante AV-A is available when licensed.

Q: Does it need a managed switch?

Yes — the same Layer-3 managed Gigabit switch with IGMP Snooping used by the encoders.

Q: Can it power over PoE?

Yes — 802.3af PoE, or the included DC 12V/2.5A supply.