

4K60 4:4:4 JPEG2000 AV over IP Decoder — Copper + Fiber In One Box

Distribute Matrix, Video Wall & KVM to Any Display Without a 10G Switch Upgrade — Dante AV-A, 9x9 Video Wall, PoE-Powered

MPN: AVO-IPJP2K-DEC



Distributes visually-lossless 4K60 4:4:4 video to any display over the standard 1-Gigabit network you already own — without a 10G switch upgrade. The AVO-IPJP2K-DEC is a black metal-enclosure JPEG2000 AV-over-IP decoder that draws power over the network in PoE PD mode (7.08W maximum, DC 12V/2.5A adapter optional) and integrates both a copper LAN port and an optical fiber port in a single box, so short in-room drops and long inter-building runs terminate on the same unit. It scales point-to-point, video-matrix and video-wall deployments to a 9x9 array by adding switch ports rather than matrix cards — the right choice for boardrooms, divisible conference spaces, control rooms, courtrooms and video-wall installations where visually-lossless 4:4:4 reach, latency determinism and single-vendor endpoint convergence matter more than a 10G fabric or a proprietary matrix chassis.

Built on intra-frame JPEG2000, the decoder holds fine detail crisp across motion and rides standard Layer-3 managed Gigabit switches with IGMP snooping and jumbo frames, in unicast or multicast, with intelligent video-wall class management and MJPEG substream real-time preview for control GUIs. Audio spans ARC/eARC, S/PDIF and analog return, with Dante AV-A mode available when license-activated, while USB 2.0 supports KVM and camera pass-through and RS-232, IR, CEC, two relay ports and two digital I/O channels carry display and contact control. Configuration and control run over front-panel buttons and LED screen, a built-in web page, Telnet and SSH — open control with no mandatory proprietary processor. The single strongest differentiator is copper and fiber converged in one enclosure, removing the media-converter or second SKU that most 1G JPEG2000 endpoints require. The matching AVO-IPJP2K-ENC encoder is sold separately.

JPEG2000 4K60 4:4:4	Copper + Fiber	Dante AV-A	9x9 Video Wall	PoE Powered
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KEY FEATURES

- JPEG2000 visually-lossless 4K60 4:4:4 over standard 1G — no 10G switch upgrade
- Copper LAN and optical fiber ports integrated in a single box
- Point-to-point, video-matrix and video-wall up to 9x9 with intelligent class management
- Dante AV-A mode (license-activated) plus ARC/eARC/S-PDIF/analog audio return
- USB 2.0 KVM and camera support with bidirectional RS-232 and two-way IR
- Two relay ports and two digital I/O channels for contact control
- PoE-powered (PD mode); DC 12V adapter optional
- Web, Telnet and SSH control plus MJPEG substream real-time preview

SPECIFICATIONS

HDMI / HDCP	HDMI 2.0b - HDCP 2.2 - 18Gbps - up to 4K60 4:4:4
Codec / Network	JPEG2000 - 1G Ethernet - unicast/multicast
Color Depth	Input 8/10/12-bit - Output 8-bit
Topology	Point-to-point, matrix, video wall to 9x9
Audio	ARC/eARC/S-PDIF/analog return - Dante AV-A (licensed)
Distance	100m (328ft) over CAT5E/6/6A/7
Connectivity	LAN/PoE (RJ45) - fiber - HDMI out - 3x USB
Control	RS-232 - IR - CEC - web/Telnet/SSH
Contact Control	2 x relay - 2 x digital I/O
Enclosure	Metal - 8.03 x 5.35 x 1.00 in (204x136x25.5mm) - 1.38 lb
Power	AC 100-240V or DC 12V/2.5A - PoE PD - 7.08W max
Certifications	CE, FCC, UL

PACKAGE CONTENTS

1x JPEG2000 Decoder • 1x DC 12V/2.5A power adapter • 2x Mounting ears • 1x Quick start guide



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