

4K60 JPEG2000 AV over IP Encoder/Decoder — Dante Ready

Full-Featured IP Video Distribution with HDR10/Dolby Vision, USB KVM, 9x9 Video Wall & ARC/eARC Audio Return

MPN: AVO-IPJP2K



Eliminates the need for dedicated 10G infrastructure while delivering visually lossless 4K60 4:4:4 video distribution across standard 1G managed networks. The AVO-IPJP2K uses JPEG2000 compression to distribute HDMI 2.0b signals with full HDR10, Dolby Vision, and HLG support — giving integrators broadcast-quality image fidelity over existing network hardware in corporate campuses, lecture halls, digital signage networks, and houses of worship.

Where competing JPEG2000 platforms stop at basic video and audio passthrough, the AVO-IPJP2K provides a complete signal management solution. Optional Dante AV-A ties directly into existing DSP and audio infrastructure. ARC, eARC, and SPDIF audio return paths enable display audio to flow back to amplifiers without additional cabling. Digital I/O and relay controls handle environmental automation — projector lifts, screen drops, lighting triggers — from the same box that distributes video. Copper and fiber connectivity, USB 2.0 KVM, and PoE (802.3af) round out a platform that replaces three or four separate devices in a typical AV rack.

 JPEG2000 4K60 4:4:4	 Dante AV-A Optional	 ARC/eARC Return	 USB KVM 2.0	 Video Wall 9x9	 PoE 802.3af
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KEY FEATURES

- JPEG2000 visually lossless 4K60 4:4:4 over 1G managed networks — no 10G required
- Optional Dante AV-A — audio routing over existing DSP infrastructure
- ARC, eARC, and S/PDIF audio return — no dedicated return cabling
- USB 2.0 KVM with two-way IR and RS-232
- 2-ch relay + 2-ch Digital I/O with configurable VCC (5V/12V) for automation
- HDMI 2.0b, HDCP 2.2, HDR10, Dolby Vision, HLG — 18Gbps
- Unicast, multicast, matrix switching, and 9x9 video wall
- Copper (RJ45) + Fiber (SFP) with PoE 802.3af PD
- Works with AVO-IPCTL-JP2K IP Controller for matrix and video wall management

SPECIFICATIONS

		Technical
Compression / Res.	JPEG2000 — 4K@60Hz 4:4:4 (HDMI 2.0b, HDCP 2.2, 18Gbps)	
HDR / Audio	HDR10, Dolby Vision, HLG • LPCM, Dolby TrueHD, DTS-HD Master	
Audio Return / Dante	ARC, eARC, S/PDIF, Analog • Optional Dante AV-A	
Video Wall	Up to 9x9 — unicast / multicast	
		Connection
Network	1G LAN/PoE RJ45 + Fiber SFP • Up to 328ft/100m CAT5E/6/6A/7	
USB / Control	ENC: USB HOST + 2xUSB2.0 DEC: 2xUSB1.1 + 2xUSB2.0 RS-232, Relay, DIO, IR	
		Physical
Dimensions (WxDxH)	8.03" x 5.35" x 1.00" (204 x 136 x 25.5mm)	
Weight / Power	ENC 1.39 lbs / DEC 1.38 lbs • PoE 802.3af or DC 12V/2.5A • CE/FCC/UL	
		Recommended Accessory
IP Controller	AVO-IPCTL-JP2K — Required for matrix switching, 9x9 video wall, and KVM roaming (sold separately)	

PACKAGE CONTENTS

1x Encoder 1x Decoder 2x DC 12V/2.5A adapters 2x Mounting ears 1x Quick start guide | *Recommended: AVO-IPCTL-JP2K IP Controller (sold separately)*



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