

4K60 JPEG2000 AV over IP BYOD Encoder — USB-C & HDMI

Dual Input Auto-Switch with PD 100W Laptop Charging, Dolby Vision, Dolby Atmos & ARC/eARC over Standard 1G Copper

MPN: AVO-IPJP2KUC-ENC



1 PRODUCT OVERVIEW

DESIGNED FOR

AV integrators specifying BYOD-capable rooms — corporate huddle spaces, flex conference rooms, higher education classrooms, and houses of worship where the primary source is a presenter's laptop.

THE CHALLENGE

Standard JPEG2000 encoders require a fixed HDMI source. In BYOD rooms, presenters need a USB-C connection that carries video, routes peripherals, and charges the laptop — without dongles, docks, or IT support.

THE KANEXPRO ADVANTAGE

Only JPEG2000 encoder with HDMI + USB-C dual input, PD 100W laptop charging, Dolby Vision/HLG, and ARC/eARC in a single unit — encoder-only for flexible deployment alongside any AVO-IPJP2K decoder.

2 PRODUCT POSITIONING

The AVO-IPJP2KUC-ENC is the JPEG2000 BYOD encoder for integrators who need USB-C PD laptop charging alongside 4K60 IP video distribution — in a single, presenter-ready box.

3 SALES ANALYSIS

CHANNEL FIT

Rep and distribution. Strongest fit with integrators specifying UC and BYOD rooms for corporate, education, and flexible workspace clients.

DEAL SIZE & SALES CYCLE

\$2,500–\$20,000+ per system (1 encoder + N decoders). Sales cycle: 3–8 weeks for corporate; 6–16 weeks for education/government.

COMMON OBJECTIONS

1. 'Can't we just use a USB-C hub?' — AVO-IPJP2KUC-ENC distributes to multiple displays over IP; a hub cannot. 2. 'We already specified AVO-IPJP2K' — UC-ENC adds USB-C PD charging and Dolby Vision; ideal for presenter-driven rooms alongside standard encoders.

WIN / LOSS THEMES

Win: BYOD rooms, laptop-first environments, Dolby Vision content. Loss: fixed-source AV racks where USB-C is irrelevant — steer to AVO-IPJP2K or IPJP2KD.

TOP USE CASES TO CLOSE

- 1 Corporate huddle room refresh — integrator needs USB-C endpoint that charges laptop, shares display, and routes KVM without dongles. UC-ENC closes deals vs HDMI-only competitors.
- 2 Higher education flex classroom — instructor laptop connects via USB-C; JPEG2000 distributes to all displays; AVO-IPCTL-JP2K manages routing from the AV podium.

4 APPLICATIONS



BYOD Conference Room

Single USB-C cable shares display, routes KVM, charges laptop — no adapters needed.



Huddle Space

Auto-switching ensures the room works the moment a laptop is plugged in — HDMI or USB-C.



USB-C Laptop Integration

PD 100W keeps presenter's laptop charged. HDMI loop feeds local confidence monitor simultaneously.



Higher Education

Route instructor laptop to classroom displays. USB KVM enables decoder-side PC control.



Video Wall & Digital Signage

JPEG2000 to 9x9 arrays. Auto-switch injects live laptop content without manual source selection.



Houses of Worship

USB-C for sermon media and presentations. ARC/eARC returns audio to mixing console.

5 WHO THIS IS FOR

AV Integrator

UC/BYOD Specialist

Corporate IT

Education AV

Flex Workspace

House of Worship

Ideal User

AV integrator or systems engineer specifying UC-capable rooms — familiar with USB-C/Thunderbolt ecosystems, BYOD policies, and managed network AV distribution.

Project Types

Corporate conference rooms, huddle spaces, flex workspaces, higher education classrooms, K-12 AV, houses of worship, government briefing rooms.

Typical Buyer

AV Director, IT Manager, Facilities Manager, or Systems Integrator PM. Procurement via distribution or direct for enterprise/education.

6 KANEXPRO PRODUCT COMPARISON

AVO-IPJP2KUC-ENC is the BYOD-specific encoder in the JP2K family. Choose based on input type and room profile.

MODEL	BEST FOR	KEY CAPABILITY	HOW IT DIFFERS
AVO-IPJP2KUC-ENC	BYOD/UC rooms	HDMI + USB-C, PD 100W, Dolby Vision	This product — encoder only for presenter spaces
AVO-IPJP2K	Fixed AV sources	HDMI only, copper + fiber SFP, encoder+decoder pair	Use when source is fixed rack equipment, not laptop
AVO-IPJP2KD	Dante-heavy installs	Dual copper LAN, USB-C KVM, HDR10 only	No USB-C input, no PD charging, no Dolby Vision
AVO-IPJP2KS	Cost-sensitive	HDMI only, copper, no KVM	No USB-C, no PD, no KVM, no ARC/eARC

Recommend AVO-IPJP2KUC-ENC for any room where the primary source is a presenter's laptop.

7 FREQUENTLY ASKED QUESTIONS

How is AVO-IPJP2KUC-ENC different from AVO-IPJP2K?

The UC-ENC adds HDMI + USB-C dual input with auto-switching and PD 100W laptop charging — it's encoder-only and targeted at BYOD/UC rooms. AVO-IPJP2K is an encoder/decoder pair with HDMI-only input and single copper + fiber SFP network.

Does the USB-C port support video AND charging simultaneously?

Yes. USB-C IN 1 carries video, audio, and USB data from the laptop. USB-C IN 2 connects to a USB-C PD adapter that delivers up to 100W back to the laptop. Both are active at the same time.

What decoder does this pair with?

Any AVO-IPJP2K-series decoder — AVO-IPJP2K, AVO-IPJP2KD, AVO-IPJP2KS, or AVO-IPJP2KD-DEC. All use the same JPEG2000 platform and are interoperable on the same 1G network.

Does it support Dolby Vision?

Yes — HDR10, Dolby Vision, and HLG are all supported on input and output. This is unique among the JP2K encoder family; AVO-IPJP2K and AVO-IPJP2KD support HDR10 only.

What happens if both HDMI and USB-C are connected?

The encoder auto-switches to whichever input is active. When a signal is connected and detected on either input, the encoder routes that source automatically. Priority behavior is configurable via the Web GUI.

Can this be used with the AVO-IPCTL-JP2K controller?

Yes — fully compatible. The AVO-IPCTL-JP2K manages matrix switching, video wall (up to 9×9), KVM roaming, and Dante AV-A routing across all JPEG2000 SKUs including the UC-ENC.

Is Dante included?

Dante AV-A is optional and license-activated. The hardware is Dante-ready — activate per unit through Audinate's licensing portal when needed.