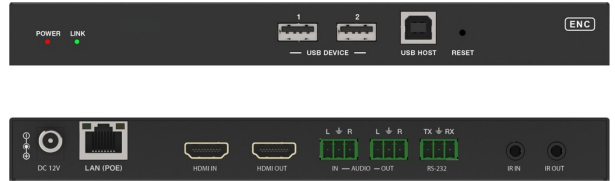


1080P60 H.265 AV over IP KVM Encoder

Distribute One HDMI Source with USB-KVM & Bidirectional IR — Matrix & Video Wall up to 9×9 over 1G

MPN: AVO-IP265HDK-ENC



Distributes one HDMI source — with full keyboard, mouse, and IR control — to an unlimited number of displays over the standard 1G network you already have. A compact 1080P60 H.265/H.264 AV-over-IP KVM encoder, the AVO-IP265HDK-ENC adds USB-KVM and bidirectional IR to IP video distribution and racks up to 10 units in 6U or 4 in 1U — the right choice for control rooms, command centers, education, and corporate AV where operators must reach and control remote sources, not just watch them.

It drives matrix switching, video wall up to 9×9, unicast and multicast distribution, analog audio embedding, and RS-232 / IR pass-through — all configured through the web GUI, with a local HDMI loop-out for on-site monitoring and RTSP sub-streams for VLC preview. Sold as a standalone encoder and managed by the AVO-IPCTL-265HD controller, it lets integrators order the exact encoder-to-decoder ratio each job needs. Decoders (AVO-IP265HDK-DEC) sold separately.

1080P60 H.265 / H.264	USB-KVM HOST + 2× Device	9×9 Wall 81 Displays	Bi-Dir IR IR IN + OUT	3.48W PoE 802.3af	Rack Dense 10 / 6U or 4 / 1U
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KEY FEATURES

- H.265/H.264 codec — 1080P@60Hz 4:4:4, up to 1920×1200@60Hz, HDMI 1.3, HDCP 1.4
- USB-KVM — 1× USB HOST (Type B) to the source PC + 2× USB DEVICE (Type A) for keyboard/mouse
- Bidirectional IR — IR IN + IR OUT (3.5mm) for IR pass-through to and from any room
- HDMI local loop output — monitor the encoded source on-site without splitting
- Compact form factor: 8.03" × 3.74" × 0.85" (204 × 95 × 21.5mm), 1.04 lbs
- Rack-dense: 6U rack (up to 10 units) or 1U rack (up to 4 units)
- Matrix switching, video wall up to 9×9, unicast and multicast distribution over 1G
- Analog audio embedding — LPCM 2.0CH inserted into the stream
- Configurable main stream and sub stream — RTSP preview via VLC
- RS-232 pass-through, guest mode, and single-machine control (no controller box); Web GUI for stream, EDID, and firmware
- PoE 802.3af Class 3 PD or DC 12V/1A — 3.48W; works with AVO-IPCTL-265HD controller

SPECIFICATIONS

Video / Codec	H.265/H.264 — 1080P@60Hz, up to 1920×1200@60Hz, HDMI 1.3, HDCP 1.4, 4.95Gbps
Color / Audio	RGB/YCbCr 4:4:4 / 4:2:2 LPCM 2.0CH (32/44.1/48kHz) Analog audio IN/OUT
USB-KVM	1× USB HOST (Type B) 2× USB DEVICE (Type A) — keyboard/mouse
Encoder Connections	1× HDMI IN 1× HDMI OUT (loop) 1× LAN/PoE Audio IN/OUT (3-pin Phoenix) 1× RS-232
IR	IR IN + IR OUT (3.5mm, bidirectional, 20K–60KHz)
Video Wall	Up to 9×9 (81 displays)
Transmission	Up to 328ft / 100m via CAT5E/6/6A/7
Power	PoE 802.3af Class 3 or DC 12V/1A 3.48W
Dimensions (W×D×H)	8.03" × 3.74" × 0.85" (204 × 95 × 21.5mm)
Weight	1.04 lbs (470g) per unit
Rack Mounting	6U rack: up to 10 units 1U rack: up to 4 units
Default IP / Login	169.254.100.254 admin / admin

PACKAGE CONTENTS

Each AVO-IP265HDK-ENC includes: 3× 3-pin Phoenix connectors | 1× IR receiver + 1× IR blaster cable | 2× Mounting ears | 4× Screws | 1× DC 12V/1A locking PSU | User manual. Decoder (AVO-IP265HDK-DEC) sold separately.



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