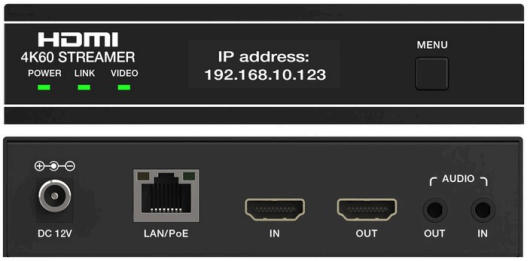
4K60 H.265/H.264 HDMI Streaming Encoder — RTMP Push & RTSP

Stream Live Without a Capture PC — Direct RTMP Push, Multicast RTSP & TS/UDP, Audio-Only Stream, 802.3af PoE over 1G

MPN: AVO-IP265-STREAM



Streams a 4K60 HDMI source live to a streaming platform, the local network and a preview monitor at once, without a capture PC. The AVO-IP265-STREAM encodes the full 3840x2160 signal at up to 60Hz in H.265 or H.264, rather than taking 4K in and encoding only 1080p. It also runs a 1080p30 second stream and a 1280x720 JPEG preview stream at the same time. The compact 5.12 x 6.30 x 1.18 in metal unit draws 7.2W and runs on 802.3af PoE from the network switch, or on the included 12V locking adapter. It fits 1U or 6U V2 rack installations, so a full rack of streamers takes very little space. It is the right choice for lecture halls, houses of worship, town-hall rooms and IPTV venues where a true 4K60 encode and direct platform push matter more than a PC, capture card and software encoder at every source.

Every stream uses a standard protocol: RTSP/UDP, RTSP/TCP, RTP/UDP, TS/UDP and RTMP, in unicast or multicast. That means VMS and recording systems, IPTV players, media players and live platforms can all receive it directly. A separate audio-only multicast stream feeds overflow and paging zones. The 3.5mm input embeds a mixer or microphone feed into the stream, and the 3.5mm output extracts program audio for local speakers. The HDMI loop output keeps the room display live while the unit encodes. Setup runs in an HTTP/HTTPS web GUI, and third-party control systems can manage the unit over Telnet, SSH or a TCP socket. 802.1X port authentication lets it join locked-down enterprise and campus networks, and the front-panel OLED speeds up commissioning. The single strongest differentiator is the full 4K60 encode with RTMP push and two more simultaneous streams from one PoE-powered box, so one source covers the recorder, the online audience and the room.

4K60	3 Streams	RTMP	PoE	802.1X
True H.265 Encode	Main, Second, Preview	Direct Platform Push	802.3af Over 1G	Enterprise Network Ready

KEY FEATURES

- True 4K@60Hz H.265/H.264 encode from an HDMI 2.0b, 18Gbps input
- Three simultaneous streams: 4K60 main, 1080p30 second, 720p JPEG preview
- RTSP/UDP, RTSP/TCP, RTP/UDP, TS/UDP and RTMP, unicast and multicast
- Audio-only multicast stream
- HDMI loop output plus 3.5mm analog audio embedding and extraction
- 802.3af PoE over 1G, or the included 12V locking adapter
- HTTP/HTTPS web GUI, Telnet/SSH/TCP API control and 802.1X
- OLED display; fits 1U/6U V2 racks
- Works with RelayAV, KanexPro's control app

SPECIFICATIONS

Video Encode	H.265 / H.264 · 4K60 main, 1080p30 second, 720p JPEG
HDMI Input	HDMI 2.0b · 18Gbps · up to 4K60 4:4:4
Stream Resolutions	Same as input, 3840x2160, 1920x1080, 1280x720, 640x480
Frame Rate / Color	5–60Hz · 4:2:0 8-bit encode · VBR/CBR
Protocols	RTSP/UDP, RTSP/TCP, RTP/UDP, TS/UDP, RTMP
Audio	LPCM 2CH 48kHz · 3.5mm embed in / extract out
Ports	HDMI in, HDMI loop out, 3.5mm in/out, RJ45 LAN/PoE
Network / Control	1G · 802.1X · HTTP/HTTPS GUI · Telnet/SSH/TCP API
Distance	328 ft (100 m) CAT6/6A/7 · 16 ft (5 m) HDMI
Power	802.3af PoE (PD) or 12V/1A locking adapter · 7.2W
Dimensions / Weight	5.12 × 6.30 × 1.18 in · 1.45 lbs (659 g)
Environment	Operating 32–104°F (0–40°C) · 20–90% RH
Package Contents	1x AVO-IP265-STREAM AV streamer • 1x 12V/1A locking power adapter • 2x Mounting ears • 4x Machine screws (KM3x6)