

4K60 1×4 HDMI Splitter with Optical + Analog Audio Extraction

Break Audio Out to a Legacy Amp or DSP - S/PDIF Dolby/DTS Bitstream, PCM 2.0 on 3.5mm, 18Gbps 4:4:4 Pass-Through

MPN: SP-HDMI1X4A-18G



Feeds one 4K60 4:4:4 HDMI source to four displays while handing a clean audio feed off to a legacy amp or DSP — without a separate de-embedder in the rack. Housed in a black metal enclosure and powered by an external 5V/1A supply, this 1×4 distribution amplifier passes the full 18Gbps of HDMI 2.0b to all four outputs with HDCP 2.2 and 1.4 compliance. It is the right choice for boardrooms, signage clusters, lecture halls and media rooms where deterministic EDID, an onboard downscaler and audio breakout matter more than 8K bandwidth or KVM.

Dial-selectable EDID COPY and AUTO modes give integrators a deterministic handshake across mixed displays instead of the lowest-common-denominator guess of a basic splitter, and a single global 4K to 1080P downscale switch drives older 1080p screens and projectors from the same 4K source. Audio de-embeds to two destinations at once: optical S/PDIF carrying LPCM, Dolby 5.1, Dolby TrueHD, DD+ and DTS bitstream for a surround processor, and analog L/R (PCM 2.0) on a 3.5mm jack for a stereo amp or ceiling-audio zone. That combination — full 18Gbps distribution, deterministic EDID, onboard downscaling and dual audio de-embed in one metal chassis — is what sets it apart from disposable prosumer splitters.

1 PRODUCT OVERVIEW

DESIGNED FOR

Built for the rooms where one 4K source has to reach four screens and the sound has to leave the HDMI chain: corporate boardrooms and huddle rooms feeding a ceiling-speaker DSP, retail and QSR menu-board clusters, lecture halls and labs still running older 1080p projectors, houses of worship with main and overflow displays, sports bars, and high-end residential media rooms paired with a legacy stereo amp.

THE CHALLENGE

A plain splitter forces every output to the weakest display's EDID, so one incompatible or 1080p screen can drop the whole wall to a lower resolution or break the handshake entirely — and getting sound off HDMI into a legacy amp, DSP, or assistive-listening system usually means buying and racking a separate de-embedder. That is two extra points of failure and two extra line items on what should be a straightforward four-display room.

THE KANEXPRO ADVANTAGE

- Passes the full 18Gbps of HDMI 2.0b to all four outputs, holding 4K60 4:4:4 with HDCP 2.2 and 1.4 — no color subsampling across the wall.
- De-embeds audio to optical S/PDIF and analog L/R at the same time, so one chassis serves both a surround processor and a legacy stereo amp or ceiling-audio zone.
- Dial-selectable EDID COPY and AUTO modes replace the lowest-common-denominator handshake of a basic splitter with a deterministic reference.
- A global 4K to 1080P downscale switch drives older 1080p displays and projectors from a 4K source without adding a standalone scaler.
- Metal enclosure and external 5V/1A supply suit continuous-duty operation in a rack.

2 PRODUCT POSITIONING

The SP-HDMI1X4A-18G is the 1×4 4K60 HDMI distribution amplifier for AV integrators who need to feed four displays from one source and hand clean audio to a legacy amp or DSP — without adding a separate de-embedder or scaler.

3 APPLICATIONS



Corporate boardroom, four-display + room DSP

A single 4K60 laptop/room-PC source drives four displays around a boardroom while the optical S/PDIF output feeds the room's audio DSP for ceiling speakers and conferencing. EDID COPY mode locks the wall to the primary display so the handshake is deterministic across all four sinks, and the integrator avoids a separate de-embedder in the rack.



Retail / QSR menu-board cluster

One media-player source feeds four menu displays. Where the store still runs 1080p screens, one switch sends 1080p to all four outputs from a 4K player, eliminating a standalone scaler and simplifying the signage BOM.



House of worship main + overflow

A 4K program source drives the main sanctuary display and overflow-room screens, while analog L/R (3.5mm) de-embed hands a stereo mix to a legacy amplifier or assistive-listening transmitter that has no HDMI input — bridging modern source to legacy audio infrastructure without an AVR upgrade.



Education lecture hall

A lectern source feeds four displays. AUTO EDID mode compares the four sinks and outputs the best resolution they share, and where a 1080p projector is in the set the downscale switch sends 1080p to all four, so faculty get one predictable source path.



Sports bar / hospitality video wall

One satellite/streaming source distributes to four screens, with optical audio de-embed feeding the venue's zoned amplifier for program sound. The metal enclosure and external 5V/1A supply suit continuous-duty operation in a back-of-house rack.



High-end residential media room

A 4K source (media server, console, or streamer) feeds a primary display and additional screens, while analog L/R de-embed sends audio to a legacy two-channel amplifier or multiroom audio input that lacks eARC — giving the installer a clean audio hand-off without forcing an AVR into the signal chain.

4 WHO THIS IS FOR

Corporate/conferencing

Retail & QSR signage

Hospitality

Education

House of worship

Residential media rooms

Ideal User	commercial AV integrator / systems engineer, and high-end residential installer. Fluent in HDCP 2.2, EDID modes, 4:4:4 vs 4:2:0, S/PDIF vs analog. Does not need HDMI or 4K explained.
Project Types	corporate/conferencing, retail & QSR signage, hospitality, education, house of worship, residential media rooms.
Typical Buyer	the specifying engineer or lead installer chooses the part; the purchasing manager or project PM approves against a BOM. In residential, the integrator owner/estimator decides.

5 KANEXPRO PRODUCT COMPARISON

MODEL	BEST FOR	KEY CAPABILITY	HOW IT DIFFERS
SP-HD1X44K	4K 1×4, HDR + EDID, Live	4K 1×4 HDMI Splitter with HDR and EDID Management	SP-HDMI1X4A-18G is the step up for rooms that need audio extraction or a 1080p feed for older screens.
SP-1X4A8K	8K 1×4 with audio de-embed, Live	8K 1×4 HDMI 2.1 Splitter with Audio De-Embedding	SP-HDMI1X4A-18G is the 4K/18G tier of the same "splitter + audio de-embed" concept for jobs that will never see an 8K source.

6 FREQUENTLY ASKED QUESTIONS

Q: My install mixes a 4K TV with an older 1080p projector on the same source — will this drive both?

Yes, with one switch. Set the downscale switch ON and all four outputs get 1080p, so the projector and the TV both take the feed; set it OFF and all four get the native signal. It cannot run one output at 4K and another at 1080p at the same time.

Q: How do I get sound to an amplifier or DSP that has no HDMI input?

The unit de-embeds audio to two outputs at once: optical S/PDIF (carrying LPCM, Dolby 5.1, Dolby TrueHD/DD+, and DTS 5.1 formats) for a surround processor, and analog L/R on a 3.5mm jack (PCM 2.0) for a stereo amp or ceiling-audio input. No separate de-embedder needed.

Q: Will it hold 4K60 4:4:4 across all four outputs, or does it drop color?

It runs the full 18Gbps of HDMI 2.0b, so 4K60 at 4:4:4 (8-bit) is passed to all four HDMI outputs with HDCP 2.2 and 1.4 compliance.

Q: One display in the set keeps breaking the handshake. How does this fix that?

Two dial-selectable EDID modes. COPY locks all outputs to OUT 1's EDID (cascading to OUT 2, 3, then 4 if OUT 1 reports nothing usable), giving you a fixed reference. AUTO compares all four sinks and outputs the best resolution they share. That removes the lowest-common-denominator guesswork of a basic splitter.

Q: Why specify this over a bargain marketplace splitter?

It is built for installed work: a metal enclosure, predictable EDID handling, an onboard downscaler and dual audio de-embed in one chassis, with KanexPro support behind the part.

Q: Is this an 8K product?

No. It is the 4K/18G tier. For an 8K source, a separate 8K-tier splitter would be required; this unit targets 4K60 rooms where 8K is not in scope.

Q: What's in the box, and where's the manual?

The 1×4 splitter and a 5V/1A power adapter. Documentation is digital only — scan the QR code on the box for the full manual; no printed manual ships.