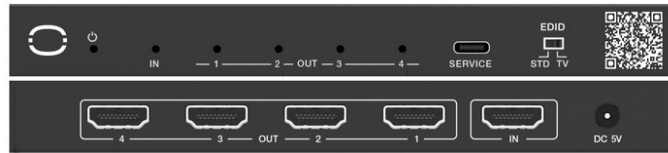


4K60 4:4:4 1×4 HDMI Distribution Amplifier with EDID Management

Distribute One HDMI Source to Four Identical Displays Without a Handshake Break - HDCP 2.3, HDR10+/Dolby Vision, STD/TV EDID
MPN: SP-HDMI1X4-18G



Distributes one 4K60 HDMI source to four identical displays at the full 18Gbps — 4K60 4:4:4 with HDR intact on every screen. Housed in a compact black metal enclosure and driven from a single 5V/1A supply, this 1×4 distribution amplifier carries the full 18Gbps signal to all four outputs at once, mirroring one source across a group of panels. It is the right choice for digital signage, conference rooms and multi-display zones where a predictable handshake and full-color 4K integrity matter more than the scaling and audio-breakout carried by premium matrix hardware.

The unit passes 4K60 4:4:4 at 8, 10 or 12-bit color with HDR10, HDR10+, Dolby Vision and HLG to every output, and carries audio up to 7.1CH including LPCM, Dolby TrueHD, Dolby Atmos and DTS-HD Master Audio. HDCP 2.3, 2.2 and 1.4 compliance clears protected content from streaming and disc sources to compliant displays, while a front-panel EDID dial sets the whole group in one move — TV copies the EDID of the OUT 1 display to all four outputs, and STD holds a safe 1080p60 two-channel default when the displays differ. A USB Type-C service port keeps firmware current. Purpose-built as a mirror rather than a scaler, it delivers top-tier HDCP 2.3 distribution without the premium of features a mirror job never uses.

1 PRODUCT OVERVIEW

DESIGNED FOR

For the rooms where one source has to reach several identical screens: signage and menu-board walls, corporate conference and huddle rooms, sports-bar viewing zones, house-of-worship lobby and confidence monitors, retail experience walls, and residential media rooms driving four 4K panels off a single player or AVR. Switching and scaling are already handled elsewhere in your rack; this is the clean distribution point that carries full 4K60 to every display without becoming the weak link.

THE CHALLENGE

Splitting one 4K60 source to four displays is where installs break. A mixed set of sinks, or a single panel that renegotiates on wake, can collapse the group EDID and drop resolution or HDR on every output — or throw a black screen on hot-plug, and the service call that follows. At 18Gbps, bandwidth-starved distribution quietly falls back to 4:2:0, strips HDR metadata, or fails to lock at full color depth, so the picture that passed on the bench is not the picture on the wall.

THE KANEXPRO ADVANTAGE

- Carries the full 18Gbps signal — 4K60 4:4:4 at up to 12-bit with HDR10, HDR10+, Dolby Vision and HLG — to all four outputs at once, with no fallback to 4:2:0 and no stripped metadata.
- HDCP 2.3, 2.2 and 1.4 compliant.
- A two-mode front-panel EDID dial settles the handshake in one move: TV copies the OUT 1 display's EDID to every output, STD holds a safe 1080p60 default when displays differ.
- Purpose-built as a mirror, it omits the per-output scaling and audio breakout of premium matrix units — capability a same-content wall never uses.
- Built in a black metal enclosure with a USB Type-C service port for firmware updates, engineered to industry standards to prevent cross-talk between outputs.

2 PRODUCT POSITIONING

SP-HDMI1X4-18G is the 4K60 4:4:4 18Gbps 1×4 HDMI distribution amplifier for AV integrators who need reliable HDCP 2.3 mirroring to four identical displays — without paying for the scaling and audio breakout a mirror job never uses.



1. QSR menu-board wall

A single media player drives four identical 4K menu panels behind the counter. All screens show the same content, so no scaling is needed — the requirement is uninterrupted 4K60 with a fixed EDID choice, so every panel gets the same format; with four identical panels, TV mode copies OUT 1's native 4K EDID to all outputs. The metal enclosure survives back-of-house heat and mounting behind millwork.



2. Corporate conference-room distribution

A room controller feeds one confirmed 4K60 4:4:4 source to a front-of-room display plus repeater monitors. HDCP 2.3 compliance clears protected content from laptops and streaming sources, and the EDID dial lets the installer pick between copying the main display (TV) or a safe 1080p default (STD) when the repeater monitors differ.



3. Sports bar multi-TV zone

One 4K source (a player or a zone output from a matrix) mirrored to four displays in a viewing area. The integrator wants a compact, reliable distribution point downstream of the matrix without adding another scaling stage; this unit passes the signal at full color depth to all four panels.



4. House of worship lobby and confidence monitors

The program feed is mirrored to lobby displays and a stage-facing confidence monitor. HDR passthrough (HDR10+/Dolby Vision/HLG) preserves image quality on cinematic content, and the EDID dial keeps all sinks on one common format.



5. Retail experience wall

Four identical 4K displays present the same brand content off one player. The install is price-sensitive and volume-driven across store locations; a pro-grade splitter at a mid-market price standardizes the BOM without the cost of scaling hardware the deployment never uses.



6. Residential media room / distributed viewing

A high-end installer mirrors an AVR or 4K player to several panels in a media space, carrying full 7.1CH audio formats (Dolby TrueHD, DTS-HD Master Audio, Atmos passthrough) to the sinks. The compact metal chassis fits a rack shelf or credenza, and the EDID dial resolves most multi-display handshake issues without a service call.

4 WHO THIS IS FOR

Corporate conferencing

Digital signage and menu boards (QSR)

Retail

Sports/hospitality)

House of worship

Education

Command/control monitoring

Residential media rooms

Ideal User

the commercial AV integrator / systems engineer spec'ing distribution for signage and multi-display rooms, plus the high-end residential installer mirroring a source to several 4K panels. Secondary: IT/AV managers in corporate, education and hospitality doing in-house refreshes.

Project Types

corporate conferencing, digital signage and menu boards (QSR, retail, sports/hospitality), house of worship, education, command/control monitoring, residential media rooms.

Typical Buyer

technically fluent — reads for HDCP version, bandwidth, 4:4:4 support and EDID behavior, not marketing adjectives. Chooses on handshake reliability and enclosure quality first, price second. Brand-loyal once a splitter proves stable across a portfolio of jobs.

5 KANEXPRO PRODUCT COMPARISON

MODEL	BEST FOR	KEY CAPABILITY	HOW IT DIFFERS
SP-HD1X44K	Entry 4K 1×4	4K 1×4 HDMI Splitter with HDR and EDID Management	10.2Gbps, HDCP 1.4 and 4K60 at 4:2:0 only; SP-HDMI1X4-18G adds 18Gbps 4:4:4 and HDCP 2.3.
SP-HD1X48K	Mixed-resolution displays	8K 1×4 HDMI 2.1 Splitter with Auto Downscaling	48Gbps HDMI 2.1 with auto downscaling and HDR-to-SDR, for rooms where the displays differ.
SP-1X4A8K	8K with separate audio feeds	8K 1×4 HDMI 2.1 Splitter with Audio De-Embedding	40Gbps, 4K120, optical and 3.5mm audio out.

MODEL	BEST FOR	KEY CAPABILITY	HOW IT DIFFERS
SP-1X4SL18G	Earlier ultraslim model	Ultraslim 1x4 Splitter Multiple 4K Display Splitter	Discontinued; SP-HDMI1X4-18G is its current-generation replacement, in a metal enclosure.

6 FREQUENTLY ASKED QUESTIONS

Q: Does this splitter downscale, so I can mix a 4K display with 1080p ones?

No. SP-HDMI1X4-18G is a straight 1-to-4 mirror: every output carries the same signal. For mixed-resolution displays that need per-output downscaling, the SP-HD1X48K (8K 1x4 with auto downscaling) is the right choice. If the mix is only for compatibility, set the EDID dial to STD and all four outputs run 1080p60.

Q: Will it keep 4K60 with full color and HDR on all four outputs?

Yes. The unit runs at 18Gbps and passes 4K60 4:4:4 at 8, 10 or 12-bit with HDR10, HDR10+, Dolby Vision and HLG to all four outputs at once.

Q: How does it handle HDCP for protected sources like streaming players?

It is HDCP 2.3, 2.2 and 1.4 compliant, so current protected 4K content from streaming and disc sources passes to compliant displays.

Q: How do I set the EDID?

With the dial on the front panel. TV copies the EDID from the display on OUT 1 to every output, which is right when all four displays match. STD sends a safe 1080p60 2-channel EDID, which is right when the displays differ or one is 1080p. If no EDID is found on OUT 1 in TV mode, the unit falls back to 1080p60.

Q: Why choose this over a budget consumer splitter?

HDCP 2.3, full 4:4:4 HDR at 18Gbps, a metal enclosure, a USB-C service port for firmware updates, and KanexPro technical support.

Q: Does it pass surround and object-based audio?

Yes. Audio passes through up to 7.1CH, including LPCM, Dolby TrueHD, Dolby Atmos and DTS-HD Master Audio. It does not de-embed or break out audio to separate outputs.

Q: What is in the box, and where is the manual?

The splitter and a 5V/1A power supply. Documentation is digital: scan the QR code on the box for the full guide.