

4K60 1×2 HDMI Splitter with Auto Downscaling & EDID Control

No Blank Second Screen on Mixed-Resolution Displays - 18Gbps, HDCP 2.3, HDR10+/Dolby Vision Pass-Through

MPN: SP-HDMI1X2-18G



Sends one 4K60 HDR source to two displays at once and keeps the lower-resolution screen live instead of blanking it. The SP-HDMI1X2-18G is a passive 1×2 HDMI splitter in a black metal enclosure, powered by a single 5V/1A multinational supply and drawing 1.41W, sized to stack behind a display or tuck into a small credenza rack. It is the right choice for media rooms and huddle spaces where reliable HDCP, HDR pass-through and a second screen that never goes dark matter more than audio de-embedding or 8K headroom.

Full 18Gbps HDMI 2.0b bandwidth carries 4K60 4:4:4 with HDR, HDR10, HDR10+, Dolby Vision and HLG intact, while HDCP 2.3 and 1.4 compliance clears protected sources to both outputs. Per-output auto downscaling matches each display's capability independently, so a 4K panel and a 1080p projector run from the same source without a separate scaler, and front-panel EDID control adds STD (forced 1080p) and TV (copy OUT1) modes for stubborn sinks. The differentiator is the combination — full-bandwidth HDR pass-through with automatic per-output downscaling in a supported metal-body unit, not the feature-max audio-breakout tier.

1 PRODUCT OVERVIEW

DESIGNED FOR

Built for the dual-display drop: media rooms pairing a 4K panel with a 1080p projector, corporate huddle and conference rooms mirroring one presentation source to two screens, and worship or lecture spaces feeding a main display and an overflow screen.

THE CHALLENGE

A commodity 1×2 splitter passes the source's native EDID to both outputs, so pairing a 4K60 display with a 1080p display or older projector locks the source to a mode the second sink cannot render — a black screen or intermittent no-signal dropout on hot-plug. Cheap plastic parts also fumble HDCP 2.3 handshakes and cap below 18Gbps, degrading HDR and 4K60 4:4:4. Each failure is a return trip to the site, and the callback costs more than the part.

THE KANEXPRO ADVANTAGE

- Full 18Gbps HDMI 2.0b bandwidth carries 4K60 4:4:4 with HDR10+, Dolby Vision and HLG without dropping metadata.
- Per-output auto downscaling shows 4K on the 4K display and 1080p on the constrained sink at the same time, with no separate scaler.
- EDID control adds STD (forced 1080p) and TV (copy OUT1) modes as a manual fallback for stubborn displays.
- HDCP 2.3 and 1.4 compliance clears protected 4K sources to both outputs on the first handshake.
- A black metal enclosure and 1.41W draw suit always-on installs and stack cleanly behind a display or in a rack.

2 PRODUCT POSITIONING

The SP-HDMI1X2-18G is the full-18Gbps 4K60 1×2 HDMI splitter for AV integrators putting one 4K HDR source on two mixed-resolution displays with reliable HDCP 2.3 and auto downscaling — without paying for the audio de-embed tier they don't need.

3 APPLICATIONS



Media room with a display + projector

A residential integrator feeds a 4K media player to a 4K flat panel and a 1080p projector on the same source. The auto-downscaling keeps the projector rendering 1080p while the panel runs 4K60, and EDID STD mode can force a clean 1080p handshake across both when the projector is the limiting sink — no black screen on the second display.



Corporate huddle room dual-display

A conference room mirrors one presentation source to two identical displays flanking the room. HDCP 2.3 compliance clears protected content from laptops and streaming dongles, and the metal enclosure mounts cleanly behind a display or in a small credenza rack.



Sports-bar screen duplication

A hospitality install duplicates one cable/streaming box to two TVs over a short run. HDR10 and Dolby Vision pass-through preserve the picture the venue paid for, and reliable HDCP negotiation prevents the intermittent no-signal dropouts that generate service calls at cheap-splitter sites.



QSR menu-board pair

A quick-service restaurant drives two menu displays from one media player. CEC by-pass from input to OUT1 lets the source power-manage the primary display, and the low 1.41W draw and 0–40°C operating range suit an always-on enclosure behind the counter.



Retail digital-signage wall

A retail integrator splits one signage player to a 4K feature display and a legacy 1080p secondary panel. EDID TV mode (copy OUT1) locks both outputs to the primary display's timing so the player negotiates one stable mode instead of flapping between two sink EDIDs.



House-of-worship / education overflow

A worship or lecture space sends one program source to a main 4K display and a 1080p overflow screen or lobby monitor. Auto-downscaling handles the resolution split without a separate scaler, keeping the overflow feed live during 4K services or lectures.

4 WHO THIS IS FOR

Custom residential (media rooms)

Dual-display great rooms)

Corporate

Hospitality

Retail signage

Worship/education overflow

Ideal User

Specs and terminates the part on site. Cares about first-time HDCP handshake, HDR pass-through, the 1080p sink not blanking, a metal body that stacks, and a real RMA path. Reads the spec sheet and checks the claims.

Project Types

custom residential (media rooms, dual-display great rooms), corporate (huddle/conference dual-display), hospitality (sports bars, QSR menu boards), retail signage, worship/education overflow.

Typical Buyer

owner/principal at a small integration shop, or purchasing/PM at a mid-size firm. Price-sensitive at this tier because the part is a low line item on a big job — the decision is "reliable enough not to callback, cheap enough not to think about."

5 KANEXPRO PRODUCT COMPARISON

MODEL	BEST FOR	KEY CAPABILITY	HOW IT DIFFERS
SP-HD1X24K	4K 1×2 HDMI splitter with EDID selector	4K 1×2 HDMI Splitter with EDID Selector	The SP-HDMI1X2-18G is the step up: full 18Gbps, HDR10+ and Dolby Vision, HDCP 2.3, and automatic downscaling for mixed displays rather than a manual EDID selector.
SP-HD1X28K	8K 1×2 HDMI 2.1 splitter with auto downscaling	8K 1×2 HDMI 2.1 Splitter with Auto Downscaling	The SP-HDMI1X2-18G is the HDMI 2.0b 4K60 model, for installs that do not need 8K or 4K120.
SP-1X2A8K	8K 1×2 HDMI 2.1 splitter with audio de-embedding	8K 1×2 HDMI 2.1 Splitter with Audio De-Embedding	The SP-HDMI1X2-18G is for display duplication only, with no audio extraction and no 8K. Net internal story: the 4K60/18G auto-downscaling 1×2 between the EDID-selector base and the 8K unit. Do not position against HDBaseT or CAT-output splitters (HD-series) — different distribution problem.

6 FREQUENTLY ASKED QUESTIONS

Q: Why choose this over a budget marketplace splitter?

The build and the handshake. This is a metal-enclosure unit built to the full 18Gbps HDMI 2.0b ceiling, with HDCP 2.3/1.4 compliance and HDR10+ and Dolby Vision pass-through. Commodity plastic splitters often list the same specs but are the parts integrators go back to replace after HDCP dropouts, and a return visit to site costs more than the part.

Q: My two displays are different resolutions - will the 1080p one still work?

Yes. The unit auto-downscales, so a 4K60 source shows 4K on the 4K display and downscaled 1080p on the 1080p display or projector at the same time. It also has EDID control with an STD mode that forces 1080p and a TV mode that copies the primary output's EDID, so you have a manual fallback if a stubborn sink needs it.

Q: Does it handle HDR and Dolby Vision?

Yes - HDR, HDR10, HDR10+, Dolby Vision and HLG all pass through, with 4K60 4:4:4, and up to 12-bit color depth.

Q: Will it pass protected 4K content from streaming and Blu-ray sources?

Yes. It is HDCP 2.3 and 1.4 compliant, so current protected 4K sources negotiate correctly to both outputs.

Q: Can I pull an audio feed off it for a soundbar or amplifier?

No - this model is display duplication only, with no audio de-embed or breakout. Audio here passes through the HDMI outputs, including LPCM up to 7.1CH, Dolby TrueHD and DTS-HD Master.

Q: Do I need this or the 8K model?

This unit is HDMI 2.0b / 4K60 - the right choice for the large majority of installs, which are 4K. If the source and displays are genuinely 8K / HDMI 2.1, step up to an 8K / HDMI 2.1 splitter. Specifying this 4K unit where 8K isn't present saves budget without giving up HDR or bandwidth headroom at 4K.

Q: What's in the box, and is there a manual?

The splitter and a 5V/1A multinational power supply. The manual is digital - scan the QR code on the box to reach it; no printed manual ships.