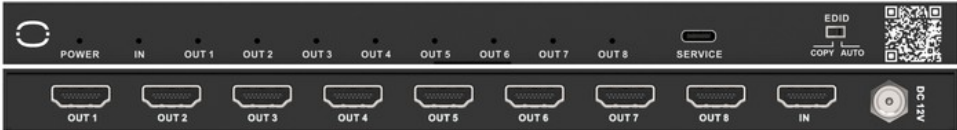


1×8 HDMI Splitter with Independent 4K to 1080p Downscaling

Drive Eight Mixed-Resolution Displays From One 4K60 Source Without Collapsing to the Weakest Screen - 18Gbps 4:4:4, HDCP 2.2, EDID COPY/AUTO



Drives eight mixed-resolution HDMI displays from a single 4K60 source without collapsing the whole array to the weakest screen. The SP-HDMI1X8-18G is a 1×8 HDMI 2.0 distribution splitter that passes the full 18Gbps 4:4:4 signal to all eight outputs and independently downscales 4K to 1080p on any port that needs it, so new 4K panels and legacy 1080p screens run natively off one feed. It ships in a black metal enclosure with an external 12V locking power supply and draws just 6.4W, making it the right choice for signage, hospitality, and corporate distribution where reliable mixed-resolution delivery and install-grade build matter more than 8K bandwidth or matrix switching.

A COPY/AUTO EDID dial resolves the mixed-wall problem at the source: COPY reads the display on HDMI OUT 1 and lets each output serve its connected screen, while AUTO reports the best common EDID so every display accepts the signal. Full HDR10, HDR10+, Dolby Vision, and HLG pass-through keeps signage color and small type clean, and CEC on HDMI OUT 1 lets the anchor display power-sequence with the source. Its strongest differentiator is genuine per-output 4K-to-1080p downscaling with full-chroma 18Gbps HDR pass-through in a metal chassis with a locking multinational supply — the pro-install combination that commodity USB-powered splitters skip and premium distribution amplifiers charge several times more to match.

Surge Protection Recommended — This product contains sensitive electrical components that may be damaged by electrical spikes, surges, electric shock, or lightning strikes. Use of surge protection systems is highly recommended.

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1. Features

- ✓ HDCP 2.2 compliant
- ✓ Video resolution up to 4K@60Hz 4:4:4, as specified in HDMI 2.0
- ✓ Audio formats up to PCM 2CH, LPCM 7.1/5.1CH, Dolby Digital, DTS 5.1, Dolby Digital+, Dolby TrueHD, DTS-HD Master Audio, Dolby Atmos, and DTS:X
- ✓ HDR, HDR10, HDR10+, Dolby Vision, and HLG pass-through
- ✓ Resolution downscaling from 4K to 1080p on each output
- ✓ CEC support on the HDMI OUT 1 port
- ✓ EDID management with COPY and AUTO modes
- ✓ Compact metal enclosure for easy and flexible installation

2. Package Contents

- ✓ 1× 4K60 1×8 HDMI Splitter
- ✓ 1× 12V/1A multinational locking power supply

3. Specifications

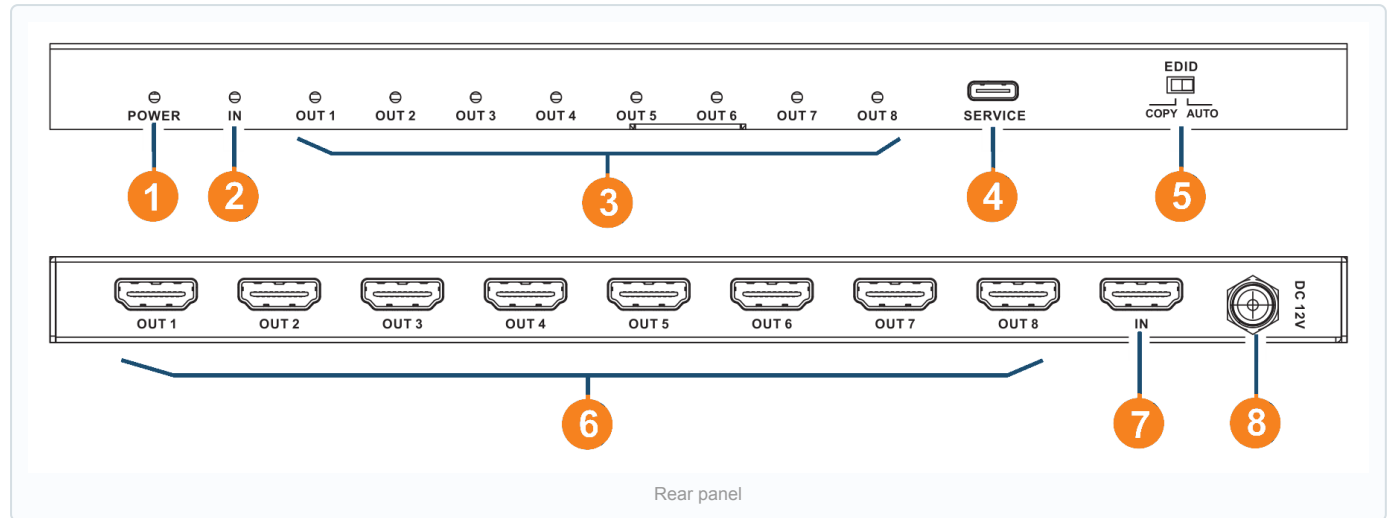
VIDEO / HDMI		
	HDMI Compliance	HDMI 2.0
	HDCP Compliance	HDCP 2.2
	Video Bandwidth	18Gbps
	Color Space	RGB, YCbCr 4:4:4, YCbCr 4:2:2
	Color Depth	8-bit, 10-bit, 12-bit
	HDR	HDR, HDR10, HDR10+, Dolby Vision, HLG
	Video Resolution (Input & Output)	480i to 1080p50/60Hz, 4K×2K@24/30Hz, 4K×2K@60Hz
	Downscaling	Per-output 4K to 1080p
AUDIO		
	Audio Formats	PCM 2CH, LPCM 7.1/5.1CH, Dolby Digital, DTS 5.1, Dolby Digital+, Dolby TrueHD, DTS-HD Master Audio, Dolby Atmos, DTS:X
CONNECTIONS		
	Input	1× HDMI IN (Type A, 19-pin female)
	Output	8× HDMI OUT (Type A, 19-pin female)
	Control	1× SERVICE (USB Type-C firmware update port)
POWER		
	Power Supply	Input: AC 100–240V, 50/60Hz; Output: DC 12V/1A
	Power Consumption	6.4W (max)
PHYSICAL		
	Housing	Metal enclosure, black
	Dimensions (unit)	9.53 × 4.02 × 0.63 in (242 × 102 × 16 mm)
	Weight (unit, net)	1.30 lbs (588 g)
ENVIRONMENTAL		
	Operating Temperature	32°F to 104°F (0°C to 40°C)
	Storage Temperature	-4°F to 140°F (-20°C to 60°C)
	Operating Humidity	20% to 80% RH, non-condensing
	Storage Humidity	10% to 90% RH, non-condensing
	ESD Protection	IEC 61000-4-2: ±8kV air-gap, ±4kV contact
CERTIFICATIONS		
	Certifications	CE, FCC, RoHS



4. Introduction

This HDMI 1×8 splitter has one HDMI input and eight HDMI outputs, and distributes a single HDMI source to eight display devices simultaneously. Video resolution is supported up to 4K@60Hz 4:4:4. The splitter provides advanced EDID management with two EDID modes, copy and auto. It is widely used in multimedia conference halls, television teaching, large-screen display and similar applications.

5. Panel Descriptions



The manual prints one callout table (No. / Name / Function Description) for both panels; the split below follows its numbered "Front & Rear Panel" drawing on page 3/5 (front 1-5, rear 6-8).

FRONT PANEL

No.	Name	Description
1	POWER LED	The blue LED lights when the device is powered on.
2	IN LED	The blue LED lights when a source device is connected.
3	OUT LED 1~8	Each corresponding blue LED lights when a display device is connected to that output.
4	SERVICE	USB Type-C port used for firmware updates.
5	EDID dial switch	COPY: reads the EDID of the display on HDMI OUT 1 and passes it to the source, which then sends the signal that matches the OUT 1 display to all HDMI outputs. AUTO: compares the EDID of the displays on HDMI OUT 1~8 and sends the best common EDID to the source, which then sends the signal that matches those displays to all outputs.

REAR PANEL

No.	Name	Description
6	HDMI OUT 1~8	HDMI output ports. Connect HDMI display devices, such as a TV or monitor, using HDMI cables.
7	HDMI IN	HDMI signal input port. Connect an HDMI source device, such as a DVD player or PC, using an HDMI cable.
8	DC 12V	DC 12V/1A power input port.



6. Operation: EDID Modes

The EDID dial switch selects how the splitter reports EDID to the source.

In **COPY** mode, the splitter reads the EDID of the display connected to HDMI OUT 1 and passes it to the source. The source then sends the signal that matches the OUT 1 display to all eight HDMI outputs.

In **AUTO** mode, the splitter compares the EDID of the displays connected to HDMI OUT 1 through 8, selects the best common EDID, and reports it to the source. The source then sends the signal that matches those displays to all outputs.

7. Auto Downscaling

This splitter supports automatic resolution downscaling on all outputs. It outputs the appropriate HDMI signal to each display according to that display's EDID.

The manual illustrates this with two examples:

- **COPY mode:** A 4K source is fed to the splitter. Displays capable of 4K receive the 4K signal (bypass), while 1080p displays receive a downscaled 1080p signal. Each output is sent the signal that matches the connected display's EDID.
- **AUTO mode:** A 4K source is fed to the splitter. After comparing the EDIDs of all connected displays, the source signal is downscaled and sent as 1080p to all outputs.

8. Recommended HDMI Cable

KanexPro recommends using a "Premium High Speed HDMI" cable for best results.

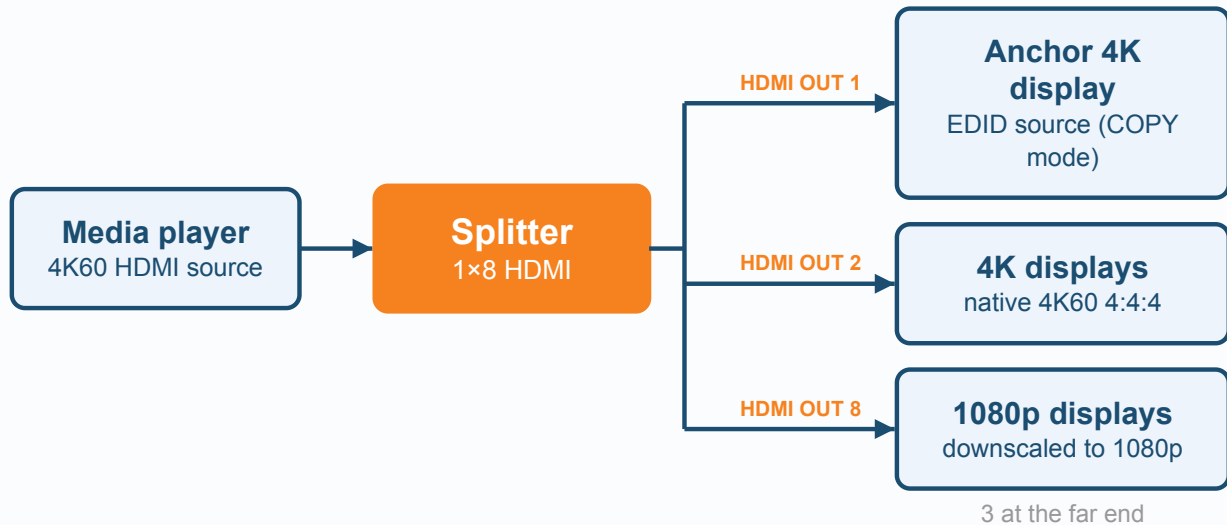
VIDEO RESOLUTION		HDMI CABLE LENGTH (IN / OUT)
	4K60	8m / 26ft
	1080p	15m / 49ft



9. Application Example

TYPICAL SETUP

1×8 HDMI Splitter with Independent 4K to 1080p Downscaling



How it works: A COPY/AUTO EDID dial resolves the mixed-wall problem at the source: COPY reads the display on HDMI OUT 1 and lets each output serve its connected screen, while AUTO reports the best common EDID so every display accepts the signal. Full HDR10, HDR10+, Dolby Vision, and HLG pass-through keeps signage color and small type clean, and CEC on HDMI OUT 1 lets the anchor display power-sequence with the source. Its strongest differentiator is genuine per-output 4K-to-1080p downscaling with full-chroma 18Gbps HDR pass-through in a metal chassis with a locking multinational supply — the pro-install combination that commodity USB-powered splitters skip and premium distribution amplifiers charge several times more to match.

10. Troubleshooting

Q: Nothing appears on any of the connected displays. What should I check?

A: First confirm the POWER LED is lit blue, which means the unit has power from the DC 12V supply. Then check the IN LED is lit blue, which indicates the source is connected to HDMI IN, and finally check that the OUT LED lights for each connected display.

Q: One output stays dark while the others work.

A: Check that the OUT LED for that port lights when its display is connected, since each OUT LED 1~8 lights only when a display is present on that output. Then reseal the HDMI cable at both ends and confirm it is a Premium High Speed HDMI cable.

Q: A 4K source is only showing 1080p on every screen.

A: In AUTO mode the source signal is downscaled to the best common EDID and sent as 1080p to all outputs. Set the EDID dial switch to COPY with a 4K display on HDMI OUT 1 so that 4K-capable displays receive the 4K signal by bypass while 1080p displays get the downscaled signal.

Q: The source will not output at all when a display is connected.

A: Confirm the IN LED is lit blue so the source device is detected, then set the EDID dial switch: COPY reports the OUT 1 display's EDID to the source, while AUTO reports the best common EDID of the displays on OUT 1 through 8.



Need help? — For additional support, contact KanexPro technical support at support@kanexpro.com or 888.975.1368, or scan the QR code below for the product page.

11. Installation FAQ

Q: What connects to which port on the SP-HDMI1X8-18G?

A: Connect the HDMI source, such as a Blu-ray player or PC, to the single HDMI IN, and connect up to eight displays to HDMI OUT 1 through 8. Power connects to the DC 12V input.

Q: How is the unit powered?

A: It is powered by the included 12V/1A multinational locking power supply, which accepts AC 100-240V at 50/60Hz.

Q: What HDMI cable should I use?

A: KanexPro recommends a Premium High Speed HDMI cable for best results on both the input and outputs.

Q: What are the operating temperature and humidity limits for the install location?

A: Operate it between 32F and 104F (0C to 40C) at 20% to 80% RH, non-condensing.

Q: How compact is the unit for mounting?

A: The metal enclosure measures 9.53 x 4.02 x 0.63 in (242 x 102 x 16 mm) and weighs 1.30 lbs (588 g).

12. Integration FAQ

Q: Does the SP-HDMI1X8-18G support RS-232 or IP control?

A: No. Distribution behavior is set with the front-panel EDID dial switch (COPY or AUTO), and the USB Type-C SERVICE port is used only for firmware updates.

Q: Can it pass CEC so a display can control the source?

A: CEC is supported on the HDMI OUT 1 port.

Q: How does it match EDID across a mix of displays in a system?

A: In COPY mode it reads the EDID of the display on HDMI OUT 1 and reports it to the source; in AUTO mode it compares the EDIDs of the displays on OUT 1 through 8 and reports the best common EDID.

