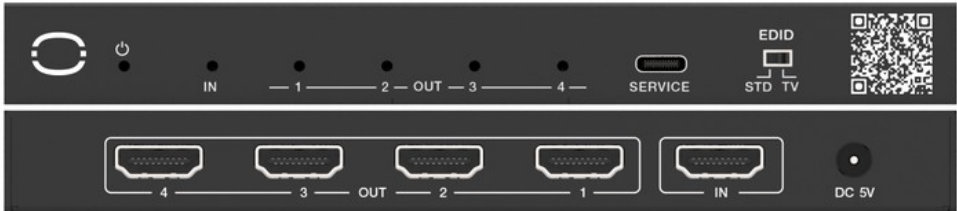


4K60 4:4:4 1×4 HDMI Distribution Amplifier with EDID Management

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



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.

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

- ✓ Distributes one HDMI input to four HDMI outputs simultaneously, mirroring a single source to four displays
- ✓ HDMI 2.0b with 18Gbps bandwidth for full 4K2K@60Hz YCbCr 4:4:4 to every output
- ✓ HDCP 2.3, 2.2 and 1.4 compliant, plus DVI 1.0
- ✓ Supports 8-bit, 10-bit and 12-bit color depth across RGB, YCbCr 4:4:4, 4:2:2 and 4:2:0
- ✓ HDR passthrough: HDR10, HDR10+, Dolby Vision and HLG
- ✓ Audio passthrough up to 7.1CH, including LPCM, Dolby Digital/Plus/EX, Dolby TrueHD, Dolby Atmos, DTS, DTS-HD Master Audio and DSD
- ✓ EDID management via a front-panel dial: STD sets all outputs to a safe 1080p60 two-channel default; TV copies the OUT 1 display's EDID to all four outputs, falling back to 1080p60 if none is detected
- ✓ USB Type-C service port for firmware updates
- ✓ Front-panel LEDs for power, source connection and each of the four output connections
- ✓ Engineered to industry standards to prevent cross-talk and minimize signal attenuation across outputs
- ✓ Compact black metal enclosure for flexible installation on a shelf, in a rack or behind millwork

2. Package Contents

- ✓ 1× 4K60 1×4 HDMI Splitter
- ✓ 1× 5V/1A power supply

3. Specifications

HDMI & VIDEO		
	HDMI Compliance	HDMI 2.0b
	HDCP Compliance	HDCP 2.3 / 2.2 / 1.4
	DVI Compliance	DVI 1.0
	Video Bandwidth	18Gbps
	Color Space	RGB, YCbCr 4:4:4, YCbCr 4:2:2, YCbCr 4:2:0
	Color Depth	8-bit, 10-bit, 12-bit
	HDR	HDR10, HDR10+, Dolby Vision, HLG
	Max Resolution	4096×2160p60; 3840×2160p (23.98–30Hz); 1080p (23.98–60Hz); 1080i; 720p; VESA 640×480 to 1600×1200p60
AUDIO		
	Channels	Up to 7.1CH
	Formats	LPCM, Dolby Digital/Plus/EX, Dolby TrueHD, Dolby Atmos, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DSD
	3D Audio	Supported
CONNECTIONS		
	Input	1× HDMI IN (Type A, 19-pin female)
	Output	4× HDMI OUT (Type A, 19-pin female)
	Control	1× Service port (USB Type-C, firmware update)
EDID MANAGEMENT		
	Control	Front-panel EDID dial switch



continued

STD Mode	All outputs run 1080p60, 2-channel audio
TV Mode	Copies OUT 1 display EDID to all outputs; falls back to 1080p60 if none detected
RECOMMENDED HDMI CABLE LENGTH	
4K60	26 ft (8 m)
1080p	49 ft (15 m)
POWER	
Power Supply	DC 5V / 1A
Power Consumption	3W (max)
PHYSICAL	
Housing	Metal enclosure, black
Dimensions (W × D × H)	6.42" × 2.48" × 0.63" (163 × 63 × 16 mm)
Weight (net)	0.58 lbs (264 g)
ENVIRONMENTAL	
ESD Protection	IEC 61000-4-2: ±8kV air discharge, ±4kV contact discharge
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
CERTIFICATIONS	
Compliance	CE, FCC, RoHS

4. Introduction

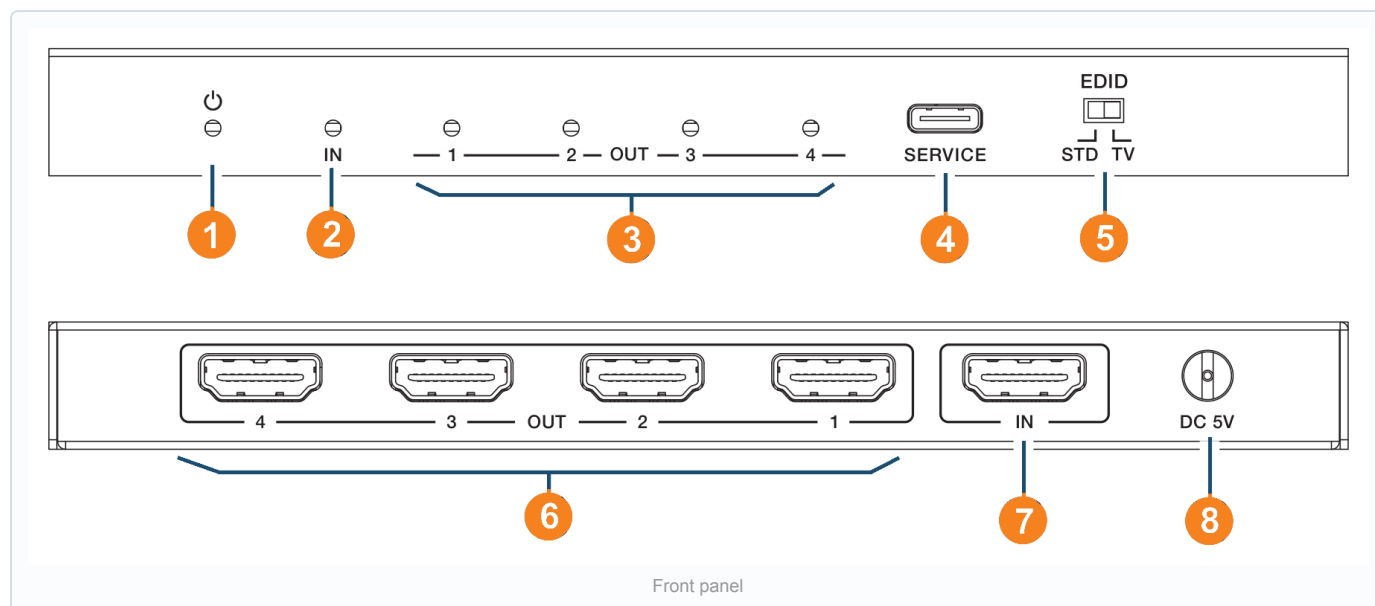
This HDMI 1×4 splitter has one HDMI input and four HDMI outputs, and distributes a single HD source signal to four display devices simultaneously. Video resolution is supported up to 4K2K@60Hz YCbCr 4:4:4, and digital audio up to LPCM 7.1CH. The unit supports advanced EDID management.

Each output is engineered to industry standards to prevent cross-talk between signals and to minimise signal attenuation, so every display receives a high-quality signal after distribution. The splitter is intended for multimedia conference halls, television teaching, large-screen display walls and similar applications.

The manual also notes that this product contains sensitive electrical components that can be damaged by electrical spikes, surges, shock or lightning strikes, and recommends using a surge-protection system to protect and extend the life of the equipment.



5. Panel Descriptions



The manual prints one callout table (No. / Name / Function Description) for both panels; the front/rear split below follows the manual's numbered drawings on page 3/5 (front 1-5, rear 6-8).

FRONT PANEL

No.	Name	Description
1	POWER LED	The red LED lights when the device is powered on.
2	IN LED	The green LED lights when a source device is connected.
3	OUT LED 1/2/3/4	The corresponding green LEDs light when display devices are connected.
4	SERVICE	USB Type-C port used for firmware update.
5	EDID dial switch	Sets the EDID mode. STD : all HDMI OUT ports output 1080P@60Hz 2CH by default. TV : copies the EDID from OUT 1 to all outputs; if no EDID is detected on OUT 1, the unit outputs 1080P@60Hz 2CH.

REAR PANEL

No.	Name	Description
6	HDMI OUT 1/2/3/4	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 a PS5, using an HDMI cable.
8	DC 5V	DC 5V/1A power input port.

6. EDID management

Set the EDID mode with the EDID dial switch (callout 5). Select **STD** when you want all four outputs to run a safe default of 1080P@60Hz 2-channel audio. Select **TV** to copy the EDID of the display on OUT 1 to every output, so all four displays follow the capabilities of the OUT 1 screen; if the unit cannot read an EDID on OUT 1, it falls back to 1080P@60Hz 2-channel.



7. Recommended HDMI cable

KanexPro strongly recommends using a "Premium High Speed HDMI" cable. Maximum tested cable length depends on resolution:

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

8. Application Example

TYPICAL SETUP

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

Media player
HDMI source

1×4
Splitter
Distribution
amplifier

HDMI OUT 1

Display 1
EDID source (TV mode)

HDMI OUT 2

Display 2
4K60 4:4:4

HDMI OUT 3

Display 3
4K60 4:4:4

HDMI OUT 4

Display 4
4K60 4:4:4

4 at the far end

How it works:

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.

9. Troubleshooting

- Q: The unit shows no sign of power. What do I check?

A: The red POWER LED lights when the device is powered on; if it stays dark, confirm the included DC 5V/1A supply is connected to the DC 5V input port.
- Q: One display is blank while the others work. Where do I start?

A: Each HDMI OUT has a green LED that lights when a display is connected, so check that output's LED and its HDMI cable; at 4K60 keep the cable within 26 ft (8 m).



Q: No picture on any display. How do I trace it?

A: The green IN LED lights when a source is connected; if it is off, check the HDMI cable from the source to HDMI IN, then confirm each OUT LED and its display connection.

Q: A 4K image breaks up or drops out. What should I confirm?

A: Use a Premium High Speed HDMI cable within the tested lengths (26 ft / 8 m at 4K60, 49 ft / 15 m at 1080p), and if a display still will not sync set the EDID dial to STD so all outputs run 1080p60.

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.

10. Installation FAQ

Q: How is the SP-HDMI1X4-18G powered?

A: Use the included DC 5V/1A power supply into the DC 5V input port on the rear; the unit draws 3W maximum.

Q: What connects to each port?

A: Connect the HDMI source, such as a Blu-ray player or PS5, to HDMI IN, and connect up to four displays to HDMI OUT 1 through 4 using HDMI cables.

Q: Is any surge protection advised when installing?

A: The unit contains components that can be damaged by electrical spikes, surges, shock or lightning, so KanexPro recommends powering it through a surge-protection system.

Q: What HDMI cable should I install with it?

A: KanexPro strongly recommends a Premium High Speed HDMI cable, kept within 26 ft (8 m) at 4K60 or 49 ft (15 m) at 1080p.

11. Integration FAQ

Q: Does the SP-HDMI1X4-18G need a control system or an RS-232/IP controller?

A: No. It carries no RS-232, Telnet or network control; the only setting control is the front-panel EDID dial switch, and the USB Type-C SERVICE port is for firmware updates only.

Q: What sources and displays does it sit between?

A: It takes one HDMI source, such as a DVD or Blu-ray player or a PS5, and feeds four separate displays (for example TV 1 through TV 4) at the same time.

Q: How is firmware updated on the unit?

A: Through the front-panel SERVICE port, a USB Type-C connection used for firmware updates.

Q: What applications is it designed for?

A: It is intended for multimedia conference halls, television teaching, large-screen display walls and similar multi-display applications.

