

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



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.

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 2.3/1.4 and DVI 1.0 compliant
- ✓ Supports 18Gbps video bandwidth, as specified in HDMI 2.0b
- ✓ Supports video resolution up to 4K2K@60Hz 4:4:4 and the HDMI 3D audio format
- ✓ Supports PCM, Dolby TrueHD and DTS-HD Master Audio up to 7.1CH
- ✓ Supports auto downscaling
- ✓ Supports CEC by-pass from IN to OUT1
- ✓ Supports HDR, HDR10, HDR10+, Dolby Vision and HLG
- ✓ Supports EDID control, including STD (1080p) mode and TV (copy OUT1) mode

2. Package Contents

- ✓ 1 × 18Gbps HDMI 1×2 Splitter
- ✓ 1 × 5V/1A multinational power supply

3. Specifications

VIDEO		
Video Bandwidth	18Gbps	
Video Resolution	Up to 4K2K@60Hz 4:4:4	
HDMI Compliance	HDMI 2.0b	
HDCP Compliance	HDCP 2.3 / 1.4	
DVI Compliance	DVI 1.0	
HDR	HDR, HDR10, HDR10+, Dolby Vision, HLG	
Color Space	RGB, YCbCr 4:4:4 / 4:2:2, YUV 4:2:0	
Color Depth	8 / 10 / 12-bit	
AUDIO		
Audio Formats	LPCM 2.0 / 5.1 / 7.1CH, Dolby Digital, Dolby Digital Plus, DTS, Dolby TrueHD, DTS-HD Master	
Sample Rate	44.1, 48, 88.2, 96, 176.4, 192 KHz	
CONNECTIONS		
Input	1 × HDMI [Type A, 19-pin female]	
Output	2 × HDMI [Type A, 19-pin female]	
RECOMMENDED HDMI CABLE LENGTH (IN / OUT)		
4K60	5 m / 16 ft	
4K30	10 m / 33 ft	
1080p	15 m / 49 ft	
POWER		
Power Supply	5V/1A (multinational power supply)	
Power Consumption	1.41W (max.)	

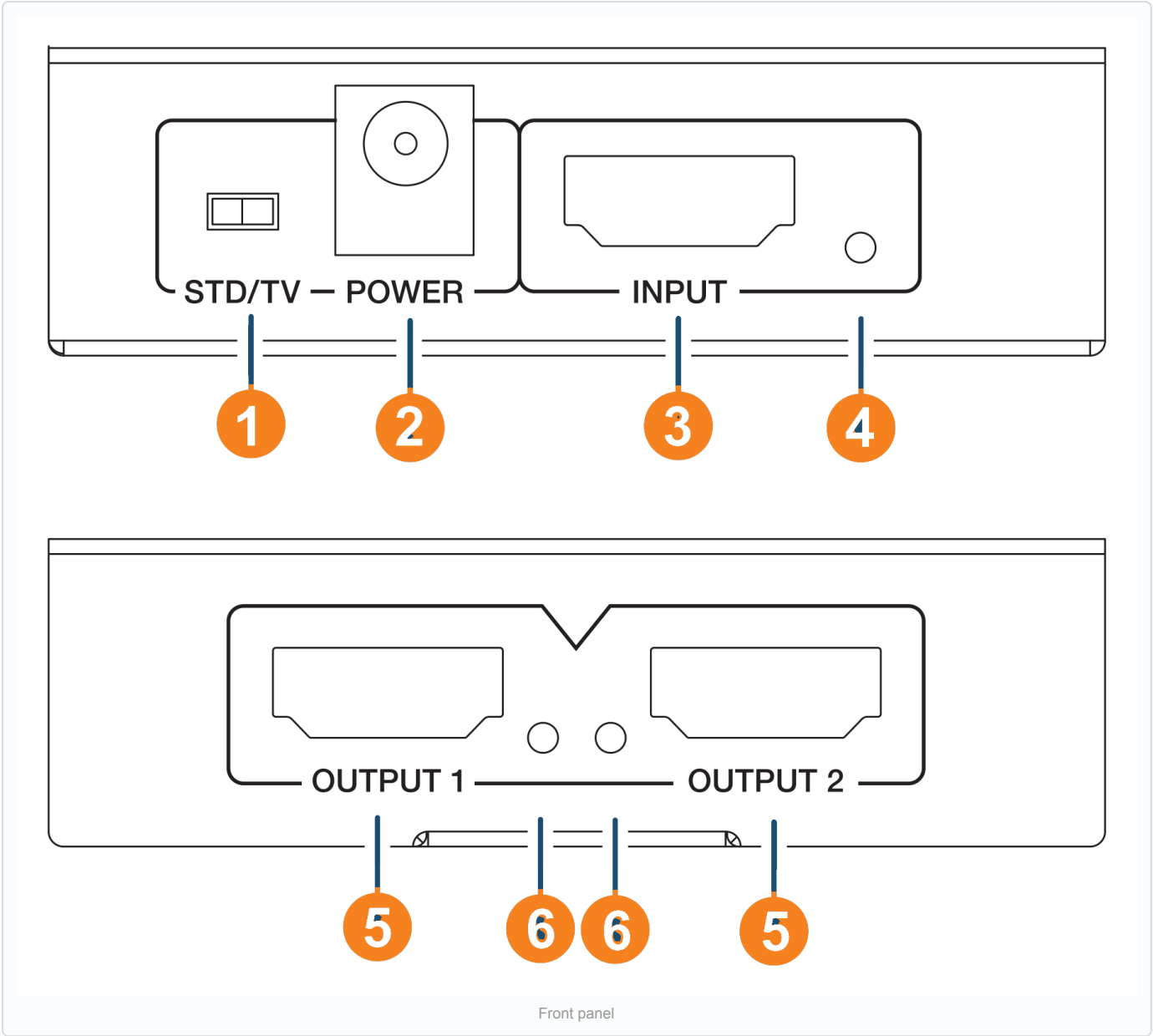


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PROTECTION	
ESD Protection	IEC 61000-4-2: ±8kV (air-gap discharge), ±4kV (contact discharge)
ENVIRONMENTAL	
Operating Temperature	32°F ~ 104°F (0°C ~ 40°C)
Storage Temperature	-4°F ~ 140°F (-20°C ~ 60°C)
Relative Humidity	20 ~ 90% RH (non-condensing)
PHYSICAL	
Housing	Metal enclosure, black
Dimensions (unit)	2.76 × 2.36 × 0.81 in (70 × 60 × 20.5 mm)
Weight (unit, net)	0.26 lbs (118 g)
Package Dimensions	4.61 × 4.13 × 2.56 in (117 × 105 × 65 mm)
Certifications	CE, FCC, RoHS



4. Panel descriptions



The front panel carries the power, input and EDID switch; the rear panel carries the two outputs.

FRONT PANEL

No.	Name	Description
1	STD/TV dial switch	Selects the EDID mode. In STD the splitter reports a fixed 1080p 2-channel EDID, with the physical address copied from OUT1. In TV it copies the EDID from the display on OUT1 by default, or from OUT2 if OUT1 is not connected.
2	POWER port	Connect the supplied DC 5V power supply here.



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No.	Name	Description
3	INPUT port	Connect your HDMI source device, such as a Blu-ray player or set-top box, here with an HDMI cable.
4	INPUT LED	Lights red when an active source device is connected to the HDMI INPUT port.

REAR PANEL

No.	Name	Description
5	OUTPUT port (1~2)	Connect your HDMI display devices, such as a TV or monitor, here with an HDMI cable.
6	OUTPUT LED (1~2)	The matching LED lights red when a display device is connected to OUTPUT 1 or 2.

5. Introduction

The 18Gbps HDMI 1×2 Splitter distributes one HDMI input source to two HDMI display devices, with video resolution up to 4K2K@60Hz 4:4:4. It supports auto downscaling and advanced EDID management. Its video bandwidth reaches 18Gbps, so it transmits an HD signal without distortion. It is suited to applications such as video conferencing, multimedia teaching, and other similar settings.

6. Safety — surge protection

This product contains sensitive electrical components that can be damaged by electrical spikes, surges, electric shock, and lightning strikes. KanexPro strongly recommends using a surge protection system to protect your equipment and extend its life.

7. EDID modes

Use the front-panel STD/TV dial switch to set how the splitter reports EDID to your source:

- **STD** applies a fixed EDID of 1080p, 2-channel audio, and copies the physical address from OUT1.
- **TV** copies the EDID from the display on OUT1 by default. If OUT1 is not connected, it copies the EDID from the display on OUT2.

8. Auto downscaling

Each output port supports auto downscaling based on the resolution the connected display can accept. If a display's maximum supported resolution is lower than the incoming source signal, the splitter downscales the source to match that output — regardless of the selected EDID mode.

9. Recommended HDMI cable

KanexPro highly recommends using a "Premium High Speed HDMI" cable. Observe the maximum cable lengths below for each resolution, on both the input and output sides:

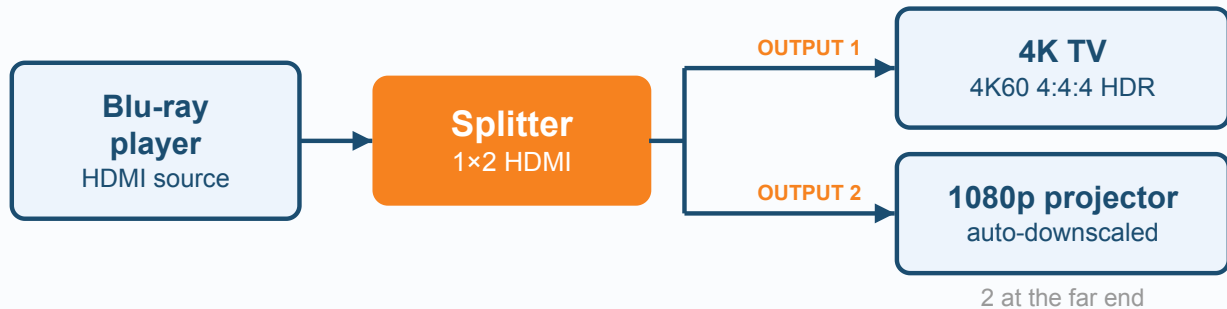
VIDEO RESOLUTION	MAX HDMI CABLE LENGTH (HDMI IN / OUT)
4K60	5m / 16ft
4K30	10m / 33ft
1080P	15m / 49ft



10. Application Example

TYPICAL SETUP

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



How it works: 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.

11. Troubleshooting

Q: Neither of my displays shows a picture on the SP-HDMI1X2-18G. What should I check?

A: Confirm the front INPUT LED is lit red, which means an active source is connected; if it is off, check that the source is powered and its HDMI cable is seated. Then confirm each OUTPUT LED is red, meaning a display is detected, and verify your cables are within the recommended length for the resolution (5m/16ft at 4K60).

Q: One display on the SP-HDMI1X2-18G is blank or shows the wrong resolution while the other is fine. What is happening?

A: Each output auto-downscales to what its display can accept, so a lower-capability display receives a reduced resolution regardless of EDID mode. Check that the blank display's HDMI cable is within the length limit for the resolution and that the display is detected by its OUTPUT LED lighting red.

Q: I only get 1080p from the SP-HDMI1X2-18G, not 4K. How do I fix it?

A: In STD mode the splitter reports a fixed 1080p, 2-channel EDID to the source, so switch the front-panel dial to TV to copy the connected display's EDID. Also confirm your HDMI cables are within 5m/16ft, the maximum for 4K60.

Q: After swapping displays on the SP-HDMI1X2-18G I get no signal or a handshake problem. What should I try?

A: In TV mode the unit copies EDID from the display on OUT1 by default, or from OUT2 only if OUT1 is not connected, so make sure a working display is on OUT1. If it still fails, switch the dial to STD to force the fixed 1080p EDID and confirm the source's INPUT LED is red.

Q: The INPUT LED on the SP-HDMI1X2-18G will not light red. What does that mean?

A: The INPUT LED lights red only when an active source is connected to the HDMI INPUT port, so an unlit LED means no active source is seen. Confirm the source device is powered on and that its HDMI cable is seated at both ends and within the recommended length.



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.

12. Installation FAQ

Q: How do I power the SP-HDMI1X2-18G?

A: Connect the supplied DC 5V/1A multinational power supply to the POWER port on the front panel; the unit draws 1.41W at most.

Q: What plugs into which port on the SP-HDMI1X2-18G?

A: Connect your HDMI source, such as a Blu-ray player or set-top box, to the front INPUT port, and connect your two displays to OUTPUT 1 and OUTPUT 2 on the rear panel.

Q: What HDMI cable lengths should I use with the SP-HDMI1X2-18G?

A: Use a Premium High Speed HDMI cable and observe these maximums on both the input and output sides: 5m/16ft at 4K60, 10m/33ft at 4K30, and 15m/49ft at 1080p.

Q: How do I set the EDID mode on the SP-HDMI1X2-18G?

A: Use the front-panel STD/TV dial switch. STD reports a fixed 1080p 2-channel EDID with the physical address copied from OUT1; TV copies the EDID from the display on OUT1, or from OUT2 if OUT1 is not connected.

Q: Should I add surge protection to the SP-HDMI1X2-18G?

A: Yes. It contains sensitive components that spikes, surges, and lightning can damage, so a surge protection system is strongly recommended to protect the unit and extend its life.

13. Integration FAQ

Q: Does the SP-HDMI1X2-18G pass CEC commands?

A: Yes, it supports CEC by-pass from the INPUT to OUTPUT 1.

Q: What does a typical SP-HDMI1X2-18G setup connect?

A: A single source such as a DVD or Blu-ray player feeds the INPUT, and each OUTPUT drives a UHD TV, so one source shows on two UHD displays at once.

Q: What kinds of installations is the SP-HDMI1X2-18G intended for?

A: It suits applications such as video conferencing, multimedia teaching, and other similar settings where one HDMI source needs to reach two displays.

