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HDMI EXTENDER

HDMI 18Gbps 1x4 Splitter over 60m CAT

AHDSP-V2018C



PRODUCT DESCRIPTION

The 18Gbps HDMI 1x8 Splitter can distribute 1 HDMI source signal to any 8 display devices. Support video resolution up to 4K2K@50/60Hz 4:4:4. It is designed with 1 HDMI loop output and 8 CAT outputs. It can extend the signal transmission distance up to 35 meters at the resolution of 4K2K@ 60Hz, or 50 meters at 4K2K@30Hz, or 60 meters at 1080P@60Hz via a single CAT6/6a/7 cable. The product supports one-way IR control signal pass-through, audio extract function and advanced EDID management.

PRODUCT KEY FEATURES

- HDMI 2.0b, HDCP 2.2 and DVI 1.0 compliant
- Support 18Gbps video bandwidth
- Support video resolution up to 4K2K@50/60Hz 4:4:4
- Support HDR, HDR10+, HLG and Dolby vision
- Support up to 7.1CH HD audio pass-through
- Support digital and analog audio de-embedded output
- Extend the signal transmission distance up to 35 meters at the resolution of 4K2K@60Hz, 50 meters at 4K2K@30Hz, 60 meters at 1080P@60Hz via a single CAT6/6a/7 cable
- Support 1 HDMI input, 1 HDMI loop output and 8 CAT outputs.
- Support one-way IR control signal pass-through
- Advanced EDID management
- Support one-way POC function (only from transmitter to receiver)

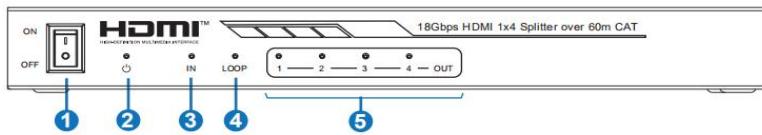
SPECIFICATIONS

Technical	
HDMI Compliance	HDMI 2.0b
HDCP Compliance	HDCP 2.2/1.x
Video Bandwidth	594MHz/18Gbps
Video Resolution	Up to 4k2k@50/60Hz 4:4:4
Color Depth	8-bit, 10-bit, 12-bit(1080p@60Hz) 8-bit (4K2K@60Hz YUV4:4:4) 8-bit, 10-bit, 12-bit(4K2K@60Hz YCbCr 4:2:2/4:2:0)
Color Space	RGB, YCbCr 4:4:4 / 4:2:2, YUV 4:2:0
HDR	Support HDR10, HDR10+, HLG, Dolby vision
HDMI Audio Formats	LPCM 2.0/2.1/5.1/6.1/7.1, Dolby Digital, Dolby TrueHD, Dolby Digital Plus(DD+), DTS-ES, DTS HD Master, DTS HD-HRA, DTS-X
Coaxial Audio Formats	PCM2.0, Dolby Digital / Plus, DTS 2.0/5.1
Analog Audio Formats	PCM 2.0CH
ESD Protection	Human body model—±8kV (Air-gap discharge) & ±4kV (Contact discharge)
Connection	
Input	1×HDMI Type A (19-pin female)
Output	1×HDMI Type A (19-pin female) 4x CAT OUT [RJ45, 8-pin female] 1x Coaxial Audio OUT [RCA] 1x L/R Audio OUT [3.5mm Stereo Mini-jack]
Control	1×SERVICE (Micro USB, Update port) 1x EDID DIAL switch [5-pin] 1x IR OUT [3.5mm Stereo Mini-jack]
Mechanical	
Housing	Metal Enclosure
Silkscreen Color	Black
Dimensions	Transmitter: 210mm (W) × 100mm (D) × 25mm (H) Receiver: 88mm (W) × 61mm (D) × 18mm (H)
Weight	Transmitter: 617g Receiver: 155g
Power Supply	Input: AC 100 - 240V 50/60Hz, Output: DC 12V/2.5A (US/EU standards, CE/FCC/UL certified)
Power Consumption	14W
Operation Temperature	0°C ~ 40°C / 32°F ~ 104°F
Storage Temperature	-20°C ~ 60°C / -4°F ~ 140°F
Relative Humidity	20~90% RH (non-condensing)

Operation Controls and Functions

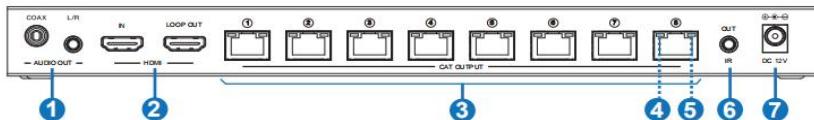
Transmitter Panel

Front Panel



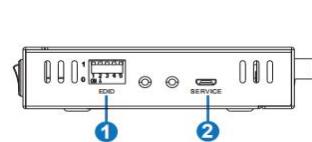
No.	Name	Function Description
1	POWER switch	Press this switch to power on/off the device.
2	POWER LED	When the device is powered on, the red power LED will be on.
3	IN LED	When the HDMI IN port connects an active source device, the green LED will be on.
4	LOOP LED	When the HDMI LOOP OUT port connects an active display device, the green LED will be on.
5	OUT LED (1~4)	When the CAT OUTPUT port connects the CAT IN port of CAT receiver, the corresponding green OUT LED will be on.

Rear Panel



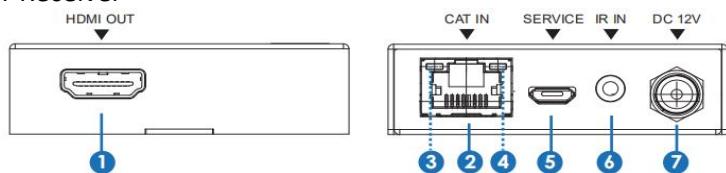
No.	Name	Function Description
1	AUDIO OUT (COAX, L/R)	Coaxial/analog audio output port, connect to amplifier or speaker.
2	HDMI port	IN: HDMI input port, connect to HDMI source device such as DVD or set-top box with an HDMI cable. LOOP OUT: HDMI loop output port, connect to the HDMI display device such as TV or Monitor with an HDMI cable.
3	CAT OUTPUT port (1~4)	Connect to the CAT IN port of the CAT receiver with a CAT cable.
4	Link Signal Indicator lamp (Green)	- Illuminate: Transmitter and receiver are connected. - Dark: Transmitter and receiver are not connected.
5	Data Signal Indicator lamp (Orange)	- Illuminating: HDMI signal with HDCP. - Flashing: HDMI signal without HDCP. - Dark: No HDMI signal.
6	IR OUT	Connect the IR Blaster cable to transmit IR signal from the CAT receiver.
7	DC 12V	Plug the DC 12V power supply into the unit and connect the adaptor to an AC outlet. (Note: The transmitter can power the receiver via a CAT cable.)

Side Panel



No.	Name	Function Description
1	EDID DIAL switch	Used to set EDID mode. Please refer to Section "6. EDID Mode" for details.
2	SERVICE port	Used for firmware update or serial port command control. Please refer to "7. ASCII Commands".

CAT Receiver



No.	Name	Function Description
1	HDMI OUT	HDMI output port, connect to HDMI display device such as TV or Projector with an HDMI cable.
2	CAT IN	Connect to the CAT OUTPUT port on the transmitter with a CAT cable.
3	Power Indicator Lamp (Green)	When the receiver is powered on, the power indicator lamp will be on.
4	Data signal Indicator Lamp (Orange)	- Illuminating: HDMI signal with HDCP. - Flashing: HDMI signal without HDCP. - Dark: No HDMI signal.
5	SERVICE port	Used for firmware update.
6	IR IN	Connect to the IR Receiver cable. The IR signal will send to the IR OUT port of the transmitter.
7	DC 12V	Plug DC 12V/1A power supply into the unit and connect the adapter to an AC outlet. (Note: The CAT receiver also can be powered by the transmitter via a CAT cable.)

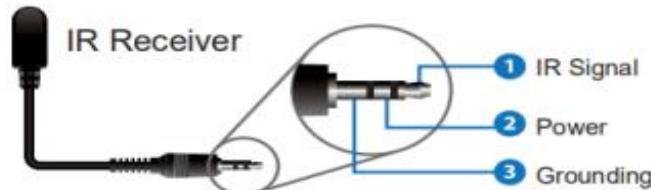
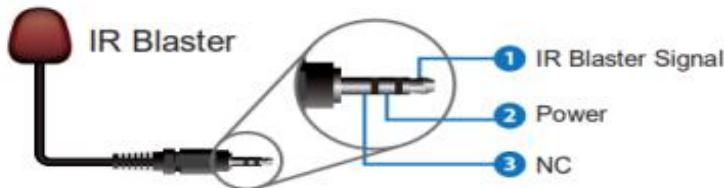
IR Pin Definition



IR RECEIVER

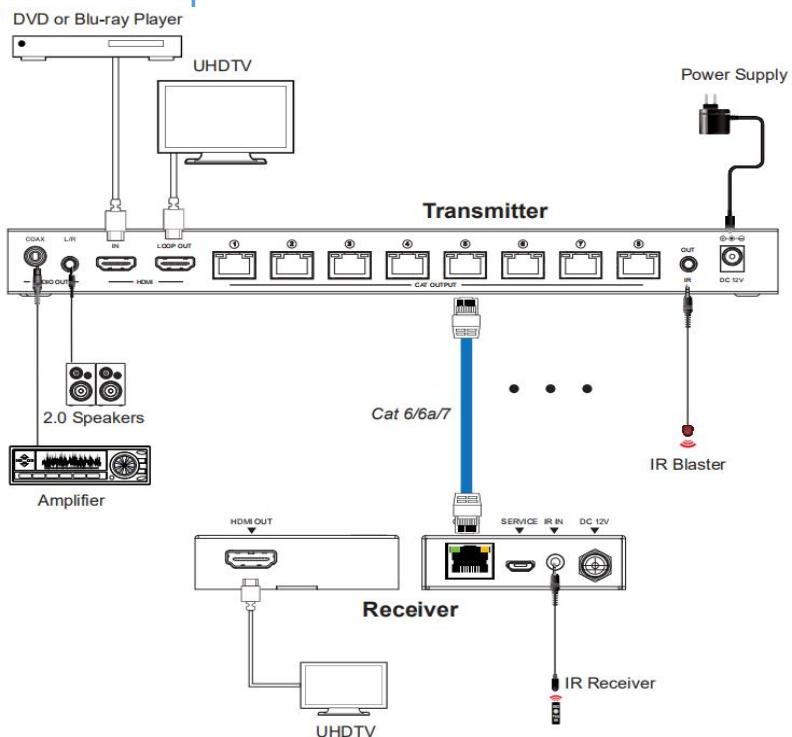


IR BLASTER



Note: When the angle between the IR receiver and the remote control is $\pm 45^\circ$, the transmission distance is 0-5 meters; when the angle between the IR receiver and the remote control is $\pm 90^\circ$, the transmission distance is 0-8 meters.

Application Example



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