

**Model** : ATZ HDMI-V2-18E60

**Description:** 1x8 HDMI Splitter v2.0 18Gbps over Cat.6 (60m@1080P60/  
35m@4K60) c/w 8x Receivers



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.

## Features:

- HDMI 2.0, HDCP 2.2 / 1.x and DVI 1.0 compliant
- Support 18Gbps video bandwidth
- Support video resolution up to 4K2K@50/60Hz 4:4:4
- Support 3D, 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)
- Compact design for easy and flexible installation

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## Specifications:

Technical	
HDMI Compliance	HDMI 2.0
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, Dolby Digital/Plus/EX, Dolby True HD, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DSD
Coaxial Audio Formats	LPCM2.0,LPCM5.1,Dolby Digital2/5.1CH
Analog Audio Formats	PCM 2.0
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) 8x 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]

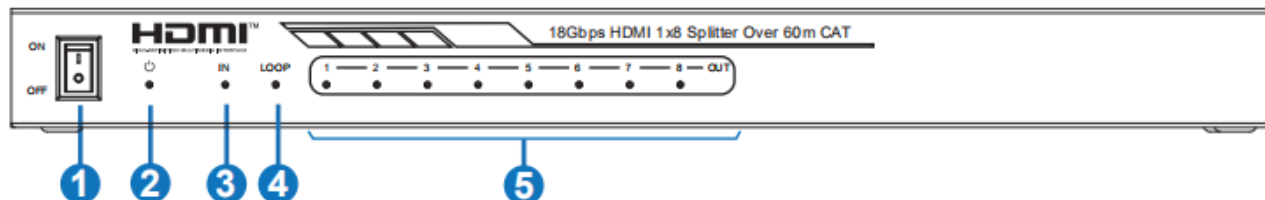
Mechanical	
Housing	Metal Enclosure
Silkscreen Color	Black
Dimensions	Transmitter: 300mm (W) × 100mm (D) × 28mm (H) Receiver: 88mm (W) × 61mm (D) × 18mm (H)
Weight	Transmitter: 823g Receiver:155g
Power Supply	Input: AC100 - 240V 50/60Hz, Output: DC 12V/2.5A (US/EU standards, CE/FCC/UL certified)
Power Consumption	25.44W
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)

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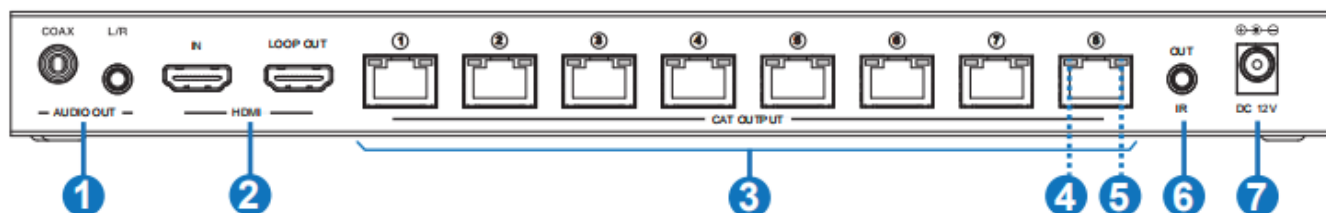
## Operation Controls and Functions

### 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 (1~8)	When the CAT OUTPUT port connects the CAT IN port of CAT receiver, the corresponding green OUT LED will be on.

### Rear Panel:



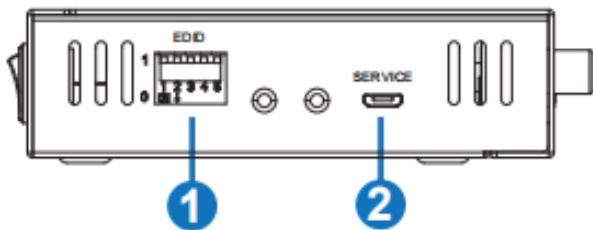
No.	Name	Function Description
1	AUDIO OUT (COAX, L/R)	Coaxial/analog audio output port, connect to amplifier or speaker.
2	HDMI port	IN: HDMI input port, connect to HDMI source device such as DVD or set-top box with an HDMI cable. LOOP OUT: HDMI loop output port, connect to the HDMI display device such as TV or Monitor with an HDMI cable.
3	CAT OUTPUT port (1~8)	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.

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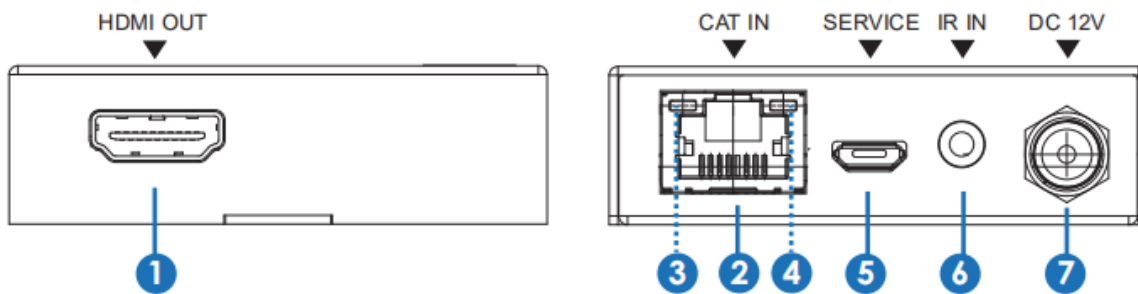
5	Data Signal Indicator lamp (Orange)	<ul style="list-style-type: none"> <li>• Illuminating: HDMI signal with HDCP.</li> <li>• Flashing: HDMI signal without HDCP.</li> <li>• Dark: No HDMI signal.</li> </ul>
6	IR OUT	Connect the IR Blaster cable to transmit IR signal from the CAT receiver.
7	DC 12V	Plug the DC 12V power supply into the unit and connect the adaptor to an AC outlet. <b>(Note:</b> 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.

### 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)	<ul style="list-style-type: none"> <li>• Illuminating: HDMI signal with HDCP.</li> <li>• Flashing: HDMI signal without HDCP.</li> <li>• Dark: No HDMI signal.</li> </ul>

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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. ( <b>Note:</b> The CAT receiver also can be powered by the transmitter via a CAT cable. )

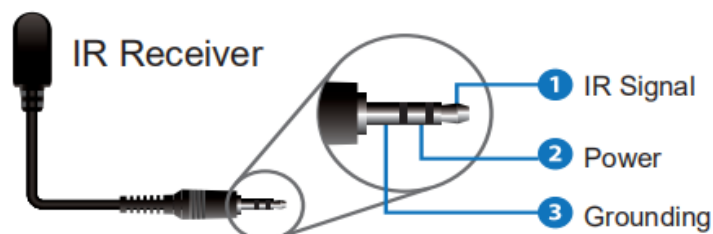
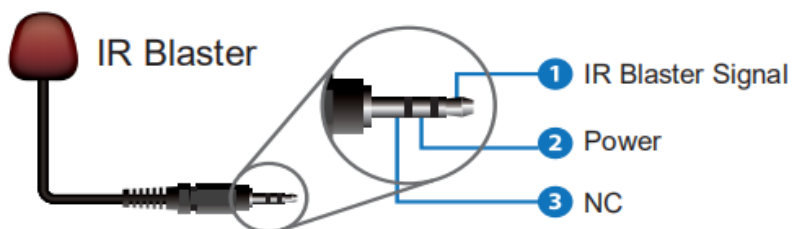
## IR Pin Definition



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.

## EDID Mode

The defined EDID setting list of the product is shown as below:

EDID Mode	EDID Description
11111	1080P, Stereo Audio 2.0
11110	1080P, Dolby/DTS 5.1
11101	1080P, HD Audio 7.1
11100	1080I, Stereo Audio 2.0
11011	1080I, Dolby/DTS 5.1
11010	1080I, HD Audio 7.1
11001	1080P 3D, Stereo Audio 2.0

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11000	1080P 3D, Dolby/DTS 5.1
10111	1080P 3D, HD Audio 7.1
10110	4K2K30Hz_444, Stereo Audio 2.0
10101	4K2K30Hz_444, Dolby/DTS 5.1
10100	4K2K30Hz_444, HD Audio 7.1
10011	4K2K60Hz_420, Stereo Audio 2.0
10010	4K2K60Hz_420, Dolby/DTS 5.1
10001	4K2K60Hz_420, HD Audio 7.1
10000	4K2K60Hz_444, Stereo Audio 2.0
01111	4K2K60Hz_444, Dolby/DTS 5.1
01110	4K2K60Hz_444, HD Audio 7.1
01101	4K2K60Hz_444, Stereo Audio 2.0 HDR
01100	4K2K60Hz_444, Dolby/DTS 5.1 HDR
01011	4K2K60Hz_444, HD Audio 7.1HDR
01010	COPY_FROM_LOOP OUT
01001	COPY_FROM_CAT OUT1
01000	COPY_FROM_CAT OUT2
00111	COPY_FROM_CAT OUT3
00110	COPY_FROM_CAT OUT4
00101	COPY_FROM_CAT OUT5
00100	COPY_FROM_CAT OUT6
00011	COPY_FROM_CAT OUT7
00010	COPY_FROM_CAT OUT8
00001	1080P, Stereo Audio 2.0
00000	PC control mode

## ASCII Commands

ASCII Commands				
Serial port protocol. Baud rate: 115200, Data bits: 8bit, Stop bits:1, Check bit: 0				
x - Parameter 1 y - Parameter 2				
! - Delimiter				
Command Code	Function Description	Example	Feedback	Default Setting
<b>Power</b>				
s power z!	Power on/off the device,z=0~1 (z=0 power off, z=1 power on)	s power 1!	Power on  System Initializing... Initialization Finished! FW version x.xx.xx	power on
r power!	Get current power state	r power!	power on/power off	
s reboot!	Reboot the device	s reboot!	reboot	
<b>System Setup</b>				
help!	List all commands	help!		
r type!	Get device model	r type!	HDC-SPB18D60	

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r status!	Get device current status	r status!	Get the unit all status: power, in/out connection, edid mode
r fw version!	Get Firmware version	r fw version!	MCU BOOT: Vx.xx.xx MCU APP: Vx.xx.xx
r link in!	Get the connection status of the input port	r link in!	HDMI IN: connect
r link out y!	Get the connection status of the y output port, y=0~8(0=all, 1~8=CAT 1~8)	r link out 1!	CAT OUT1: connect
r link loop out y!	Get the connection status of the y loop output port, y=1	r link loop out 1!	HDMI LOOP OUT: connect
s reset!	Reset to factory defaults	s reset!	Reset to factory defaults  System Initializing... Initialization Finished! FW version x.xx.xx

Command Code	Function Description	Example	Feedback	Default Setting
<b>Output Setting</b>				
s hdmi stream z!	Set hdmi loop output stream on/off z=0~1(0:disable,1:enable)	s hdmi stream 1 !	Enable hdmi loop out stream Disable hdmi loop out stream	enable
s cat y stream z!	Set cat output y stream on/off, y=0~8(0=all) z=0~1 (0:disable,1:enable)	s cat 1 stream 1 ! s cat 0 stream 1 !	Enable cat output 1 stream Disable cat output 1 stream Enable cat all outputs stream Disable cat all outputs stream	enable
r hdmi stream!	Get hdmi loop out stream status	r hdmi stream!	Enable hdmi loop output stream	
r cat y stream!	Get cat output y stream status, y=0~8(0=all)	r cat 1 stream!	Enable cat output 1 stream	
s hdmi hdcp z!	set hdmi loop output port hdcp status	s hdmi hdcp 1!	hdmi loop out hdcp on	all hdmi out hdcp active

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r hdmi hdcp!	Get HDCP status of loop out	r hdmi hdcp!	hdmi loop out hdcp on	
s cat y hdcp z!	set cat output y port hdcp status y=0~2(0=all) z=0~1 (1=on,0=off)	s cat 1 hdcp 1!	cat out 1 hdcp on	all cat out hdcp active
r cat y hdcp!	Get HDCP status of cat out y, y=0~2(0=all)	r cat 1 hdcp!	cat out 1 hdcp on	
s cat y dsc mode z!	set cat output y port dsc mode status y=0~8(0=all) z=1~3 (1=Cat cable distance normal Mode, 2= Cat cable distance 35M Mode,3= Cat cable distance 70M Mode)	s cat 1 dsc mode 2!	cat out 1 dsc mode 2	Cat cable distance 35M Mode(35M)
r cat y dsc mode!	Get dsc mode of cat out y, y=0~8(0=all)	r cat 1 dsc mode!	cat out 1 dsc mode 2	
s audio mute 1!	set audio output port mute status (1-mute, 0-umute)	s audio mute 1!	s audio mute 1	s audio unmute (0)
r audio mute!	Get audio output mute status	r audio mute!	audio mute 1	

Command Code	Function Description	Example	Feedback	Default Setting
<b>EDID Setting</b>				
s edid in from z!	Set input EDID from default EDID z, z=1~30 1,1080p,Stereo Audio 2.0 2,1080p,Dolby/DTS 5.1 3,1080p,HD Audio 7.1 4,1080i,Stereo Audio 2.0 5,1080i,Dolby/DTS 5.1 6,1080i,HD Audio 7.1 7,3D,Stereo Audio 2.0 8,3D,Dolby/DTS 5.1 9,3D,HD Audio 7.1 10,4K2K30_444, Stereo Audio 2.0 11,4K2K30_444, Dolby/DTS 5.1 12,4K2K30_444,HD Audio 7.1 13,4K2K60_420, Stereo Audio 2.0 14,4K2K60_420, Dolby/DTS 5.1 15,4K2K60_420,HD Audio 7.1 16,4K2K60_444, Stereo Audio 2.0 17,4K2K60_444,	s edid in from 1!	input EDID:1080p, Stereo Audio 2.0  Please toggle EDID	1080p,Stereo Audio 2.0



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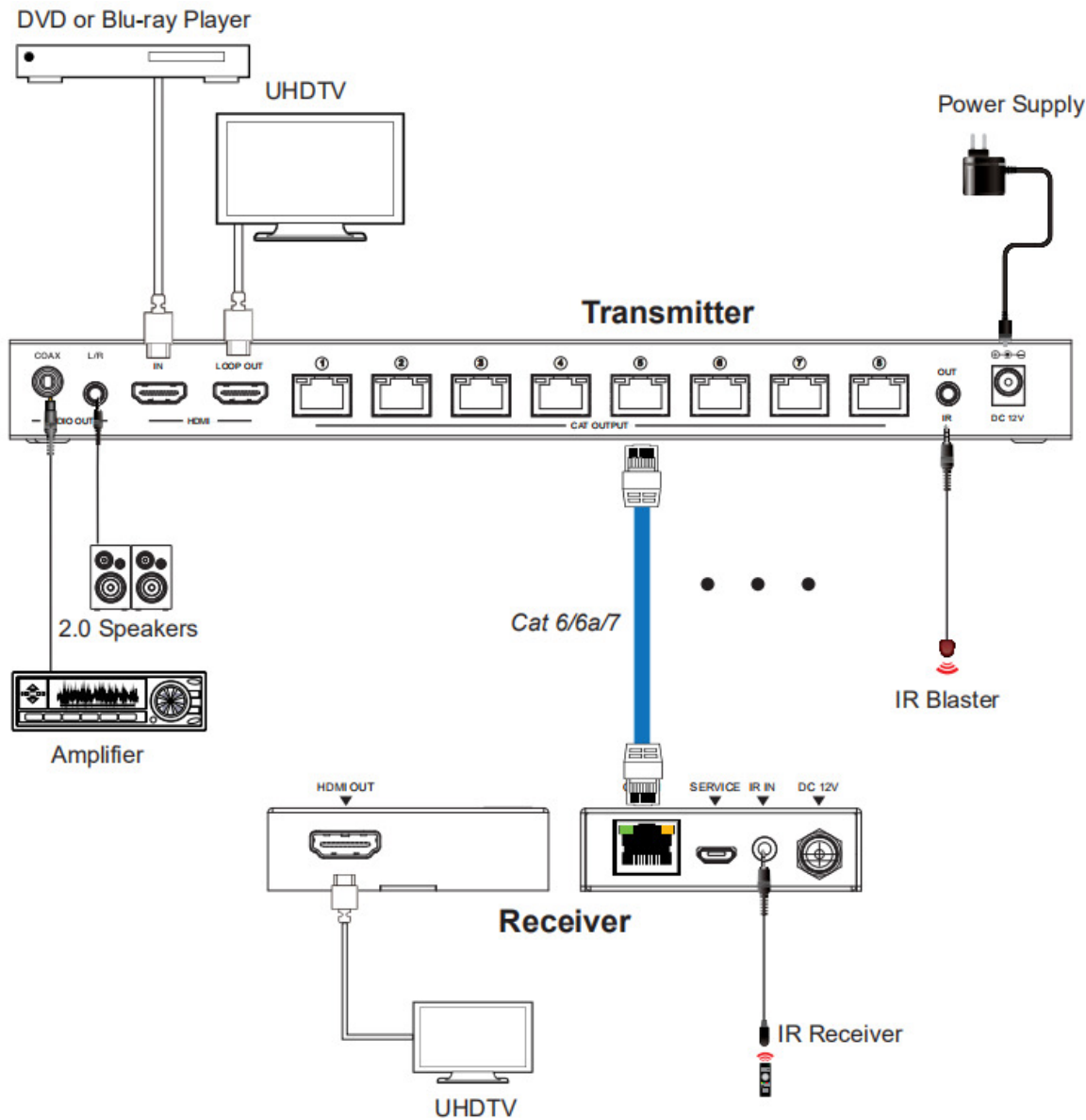
	Dolby/DTS 5.1 18,4K2K60_444,HD Audio 7.1 19,4K2K60_444, Stereo Audio 2.0 HDR 20,4K2K60_444, Dolby/DTS 5.1 HDR 21,4K2K60_444, HD Audio 7.1 HDR 22, copy from hdmi loop out 23,copy from cat output 1 24,copy from cat output 2 25,copy from cat output 3 26,copy from cat output 4 27,copy from cat output 5 28,copy from cat output 6 29,copy from cat output 7 30,copy from cat output 8				dip switch to 00000!
r edid in!	Get EDID status of the input	r edid in!	input EDID: 4K2K60_444,Stereo Audio 2.0		
r edid in data!	Get the EDID data of the hdmi input	r edid in data!	EDID data : 00 FF FF FF FF FF FF 00 .....		

**Package Contents :**

- 1x 18Gbps 1x8 HDMI Splitter over 60m CAT
- 8x CAT Receiver
- 1x IR Blaster Cable (1.5 meters)
- 8x 20K~60KHz IR Receiver Cable (1.5 meters)
- 1x 12V/2.5A DC Locking Power Adapter
- 1x User Manual

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**Product Diagram:**



**Warranty: 2 Years**

Warranty is effective from the date of original delivery.  
 This warranty shall be void if a serial number has been removed from the product.



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