Model	**:**	ATZ HDMI-V2-12E60
Description:		1x2 HDMI Splitter v2.0 18Gbps over Cat.6 (60m@1080P60/ 35m@4K60) c/w 2x Receivers

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The 18Gbps HDMI 1×2 Splitter can distribute 1 HDMI source signal to any 2 display devices, with video resolution up to 4K2K@50/60Hz 4:4:4. It is designed with 1 HDMI loop output and 2 CAT outputs. The HDMI signal transmission distance can be extended up to 115ft/35m at the resolution of 4K2K@60Hz, or 164ft/50m meters at 4K2K@30Hz, or 197ft/60m 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 2.0b, HDCP 2.2 and HDCP 1.x compliant
- Support 18Gbps video bandwidth
- Support video resolution up to 4K2K@50/60Hz 4:4:4
- Support HDR, HDR10+, HLG, Dolby Vision
- Up to 7.1CH HD audio pass-through
- Support digital and analog audio de-embedded output
- Extend the signal transmission distance up to 115ft/35m at the resolution of 4K2K@60Hz, 164ft/50m at 4K2K@30Hz, 197ft/60m at 1080P@60Hz via a single CAT6/6a/7 cable
- Support 1 HDMI input, 1 HDMI loop output and 2 CAT outputs
- Support 20-60Hz IR control source equipment from RX side
- Advanced EDID management
- Support one-way PoC function (only from transmitter to receiver)

Model   :   ATZ HDMI-V2-12E60

Description: 1x2 HDMI Splitter v2.0 18Gbps over Cat.6 (60m@1080P60/
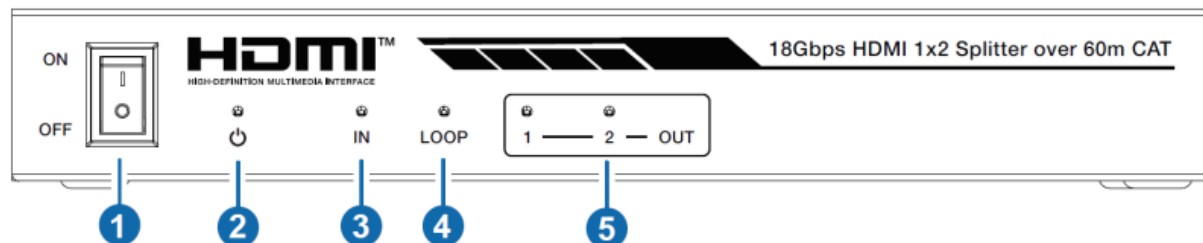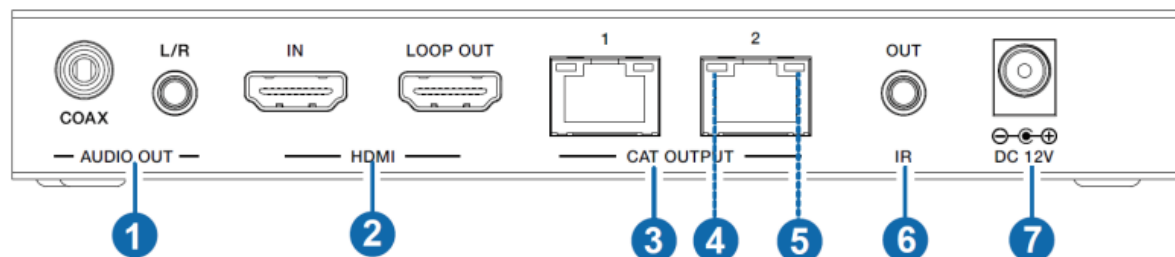35m@4K60) c/w 2x Receivers

Specifications:

Technical	
HDMI Compliance	HDMI 2.0b
HDCP Compliance	HDCP 2.2 / 1.x
Video Bandwidth	594MHz / 18Gbps
Video Resolution	Input: 480i ~1080P50/60Hz, 4Kx2K@24/30Hz, 4K2K@60Hz Loop Out: 480i ~1080P50/60Hz, 4Kx2K@24/30Hz, 4K2K@60Hz
Color Depth	8-bit, 10-bit, 12-bit (1080p@60Hz) 8-bit, 10-bit, 12-bit (4K2K@60Hz YCbCr 4:2:2 / 4:2:0) 8-bit (4K2K@60Hz YUV 4:4:4)
Color Space	RGB, YCbCr 4:4:4 / 4:2:2, YUV 4:2:0
HDR	HDR10, HDR10+, HLG, Dolby Vision
HDMI Audio Formats	LPCM, Dolby Digital/Plus/EX, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio
Coaxial Audio Formats	LPCM 2.0, LPCM 5.1, Dolby Digital 2/5.1CH
Analog Audio Formats	PCM 2.0CH
Extended Distance	115ft/35m at 4K2K@60Hz (600M Bandwidth) 164ft/50m at 4K2K@30Hz (300M Bandwidth) 197ft/60m at 1080P@60Hz (148.5M Bandwidth)
	Human body model—±8kV (Air-gap discharge) & ±4kV (Contact discharge)
Connection	
Input	1x HDMI IN [Type A, 19-pin female]
Output	1x HDMI LOOP OUT [Type A, 19-pin female] 2x CAT OUTPUT [RJ45, 8-pin female] 1x COAX AUDIO OUT [RCA] 1x L/R AUDIO OUT [3.5mm Stereo Mini-jack]
Control	1x SERVICE [Micro USB, Update port] 1x IR OUT [3.5mm Stereo Mini-jack]
Mechanical	
Housing	Metal Enclosure
Silkscreen Color	Black
Dimensions	Transmitter: 175mm (W) × 100mm (D) × 25mm (H) Receiver: 88mm (W) × 61mm (D) × 18mm (H)
Weight	Transmitter: 485g / Receiver:155g
Power Supply	Input: AC100 - 240V 50/60Hz, Output: DC 12V/1A (US/EU standards, CE/FCC/UL certified)
Power Consumption	8.28W (Max.)
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)

Model	:	ATZ HDMI-V2-12E60
Description:		1x2 HDMI Splitter v2.0 18Gbps over Cat.6 (60m@1080P60/ 35m@4K60) c/w 2x Receivers

Your Trusted Connectivity Solutions!

Operation Controls and Functions

Front Panel:

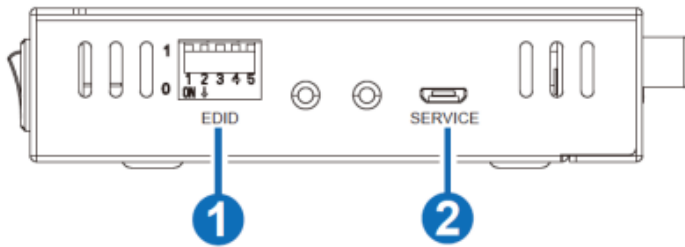| No.	Name	Function Description
1	POWER switch	Press this switch to power on/off the device.
2	POWER LED	When the device is powered on, the red power LED will be on.
3	IN LED	When the HDMI IN port connects an active source device, the green LED will be on.
4	LOOP LED	When the HDMI LOOP OUT port connects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

Rear Panel:

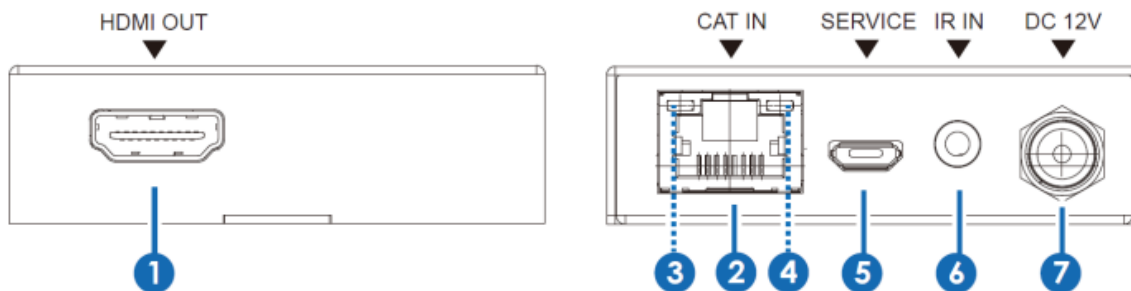| No.	Name	Function Description
1	AUDIO OUT (COAX, L/R)	Coaxial/analog audio output port, connected to an amplifier or speaker.
2	HDMI port	IN: HDMI input port, connected to HDMI source device such as DVD or set-top box with an HDMI cable.
		LOOP OUT: HDMI loop output port, connected to the HDMI display device such as TV or Monitor with an HDMI cable.
3	CAT OUTPUT port (1~2)	Connect to the CAT IN port of the CAT receiver with a CAT cable.
4	Link Signal Indicator (Green)	· Illuminating: Transmitter and receiver are connected. · Dark: Transmitter and receiver are not connected.
5	Data Signal Indicator (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 adapter 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 "EDID Mode" for details.
2	SERVICE port	Used for firmware update or serial port command control. Please refer to "7. ASCII Commands" for details.

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 (Green)	When the receiver is powered on, the power indicator will be on.
4	Data Signal Indicator (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 the IR Receiver cable. The IR signal will be sent 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.)

Package Contents :

- 1x 18Gbps HDMI 1×2 Splitter over 60m CAT
- 2x CAT Receiver
- 1x IR Blaster Cable (1.5 meters)
- 2x 20K~60KHz IR Receiver Cable (1.5 meters)
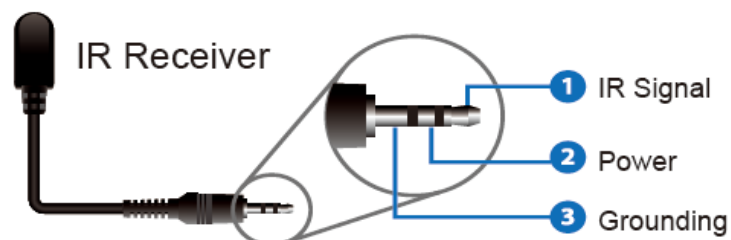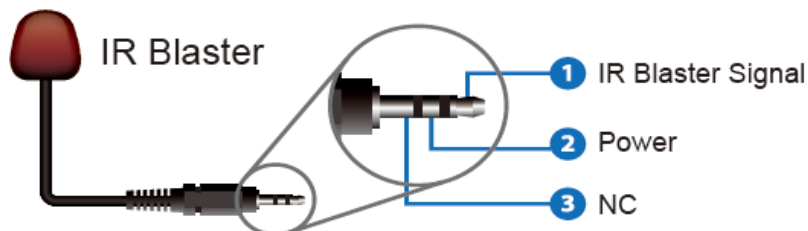- 1x 12V/1A DC Locking Power Adapter
- 1x User Manual

IR Pin Definition

IR Receiver   IR Blaster

IR Blaster
1. IR Blaster Signal
2. Power
3. NC

IR Receiver
1. IR Signal
2. Power
3. Grounding

Note: When the angle between the IR receiver and the remote control is ± 45 °, the transmission distance is 0-5 meters; when the angle between the IR receiver and the remote control is ± 90 °, 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
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	1080P, Stereo Audio 2.0
00110	1080P, Stereo Audio 2.0
00101	1080P, Stereo Audio 2.0
00100	1080P, Stereo Audio 2.0
00011	1080P, Stereo Audio 2.0
00010	1080P, Stereo Audio 2.0
00001	1080P, Stereo Audio 2.0
00000	PC control mode

ASCII Commands

The product also supports ASCII command control. Connect the SERVICE port of the product to a PC with an USB cable. Then, open a Serial Command tool on PC to send ASCII commands to control the product. The ASCII command list about the product is shown as below.

ASCII Commands				
Serial port protocol. Baud rate: 115200 (default), Data bits: 8bit, Stop bits:1, Check bit: 0				
x - Parameter 1 y - Parameter 2 ! - Delimiter				
Command Code	**Function Description**	**Example**	**Feedback**	**Default Setting**
Power				
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	
System Setup				
help!	List all commands	help!		
r type!	Get device model	r type!	HDC-SPB12D60	
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=0~2 (0=all, 1~2=CAT 1~2)	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**
Output Setting				
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=0~2 (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=0~2 (0=all)	r cat 1 stream!	Enable cat output 1 stream	
s hdmi hdcp z!	set hdmi loop output port hdcp status, z=0~1 (0=disable, 1=enable)	s hdmi hdcp 1!	hdmi loop out hdcp on	all hdmi out hdcp active
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=0~2 (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=0~2 (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	

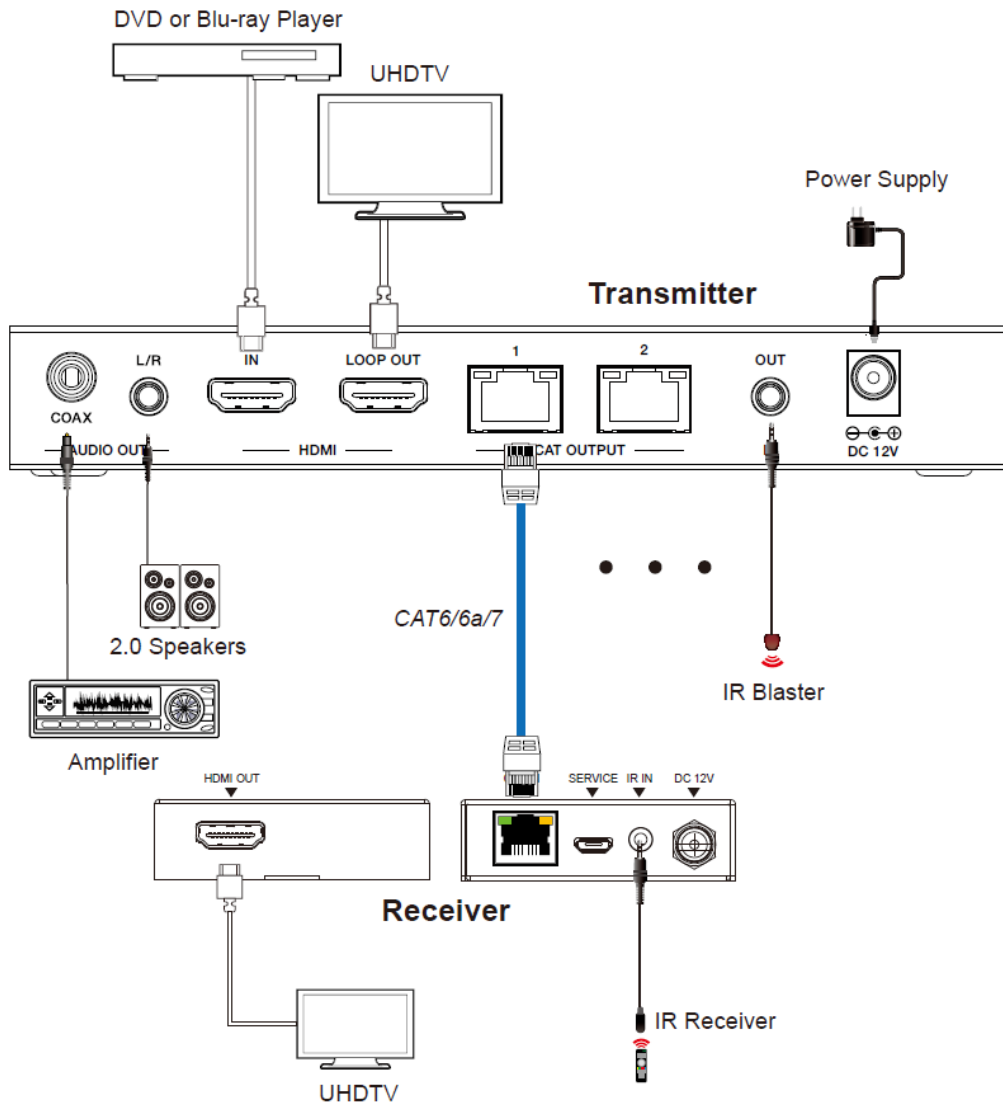| Command Code	Function Description	Example	Feedback	Default Setting
EDID Setting				
s edid in from z!	Set input EDID from default EDID z, z=1~24 1, 1080p,Stereo Audio 2.0 2, 1080p,Dolby/DTS 5.1 3, 1080p,HD Audio 7.1 4, 1080i,Stereo Audio 2.0 5, 1080i,Dolby/DTS 5.1 6, 1080i,HD Audio 7.1 7, 3D,Stereo Audio 2.0 8, 3D,Dolby/DTS 5.1 9, 3D,HD Audio 7.1 10, 4K2K30_444,Stereo Audio 2.0 11, K2K30_444,Dolby/DTS 5.1 12, 4K2K30_444,HD Audio 7.1 13, 4K2K60_420,Stereo Audio 2.0 14, K2K60_420,Dolby/DTS 5.1 15, 4K2K60_420,HD Audio 7.1 16, 4K2K60_444,Stereo Audio 2.0 17, K2K60_444,Dolby/DTS 5.1 18, 4K2K60_444,HD Audio 7.1 19, 4K2K60_444,Stereo Audio 2.0 HDR 20, K2K60_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	s edid in from 1!	input EDID:1080p, Stereo Audio 2.0 Please toggle EDID dip switch to 00000!	1080p,Stereo Audio 2.0
s edid user1 00 FF FF FF FF …!	Set user1 EDID data	s edid user1 00 ff ff ff ff …. !	user1 EDID data: 00 FF FF ….	
r edid user1!	Get user1 EDID data	r edid user1!	user1 EDID data :	

			00 FF FF FF FF FF FF 00 ……	
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 ……	

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.

HDMI
HIGH-DEFINITION MULTIMEDIA INTERFACE

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