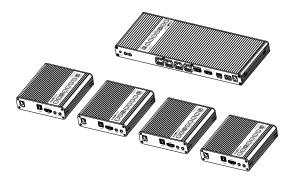


BG-UDAIC-E14 1x4 HDMI Splitter with Extender

User Manual



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Important safety notice:

- 1. Do not expose this device to rain, moisture, or liquid.
- 2. Do not place foreign items inside the device.
- 3. Do not disassemble or repair this device without a qualified service technician.
- 4. When using third party DC adapters, ensure they match the specifications outlined in this manual.

Introduction

The BG-UDAIC-E14 is an extender splitter kit that distributes 1 HDMI input to 4 HDMI outputs and extends these signals up to 70 meters. The kit features resolution up to 4K60Hz, bi-directional IR passback, and RS232 control.

Features

- 1. Zero latency transmission.
- 2. Split and extend 1 HDMI input signal to 4 HDMI outputs.
- 3. Resolution up to 4K@60Hz.
- 4. HDMI signal extension up to 70 meters using Cat6/6A/7 cables.
- 5. Bi-directional IR passback.
- 6. 1 HDMI loop out for local displays.
- 7. 1 S/PDIF port on the receiver for digital audio output from a TV or source device.
- 8. EDID passthrough or manual configuration of EDID.
- 9. RS-232 command control.
- 10. Surge, lightning, and ESD protection.
- 11. Rack mount ears.

Package Contents



HDMI splitter extender RX x4pcs

User manual x1pcs

DC12V/2A x1pcs DC5V/2A x4pcs

Terminal block (RS-232) x1pcs

IR blaster extension cable x1pcs

Screw x40pcs

IR Receiver extension cable x4pcs

Mounting brackets x20pcs

Installation Requirements

- 1. HDMI source devices (e.g., PC, DVD, game console)
- 2. HDMI display devices (e.g., TV, monitor, projector)
- 3. UTP/STP CAT6/CAT6A/CAT7 cable. Follow the standard IEEE-568B. High-quality network cables are recommended.





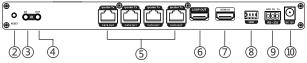




Panel Description

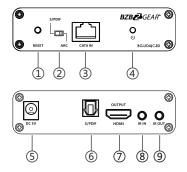
Transmitter (TX)





1	Power indicator	The blue light will illuminate when powered on
2	Reset button	Restarts the device
3	IR in	Connects using an IR receiver extension cable
4	IR out	Connects using an IR blaster extension cable
5	RJ45 output port	Connect using Cat6/6A/7 network cables
6	HDMI output port	Connects to a local HDMI display device using an HDMI cable
7	HDMI input port	Connects to an HDMI source device using an HDMI cable
8	EDID DIP switch	Configure output resolution using the EDID DIP switch
9	RS-232 Port	Connects to an external device to control the transmitter
10	Power	Connects to the DC 12V/2A power adapter

Receiver (RX)



1	Reset button	Restarts the device
2	Audio switch	Choose the audio source (output from the S/PDIF port) S/PDIF: From the source device ARC: From the TV (receiver end)
3	RJ45 signal input	Connect using Cat6/6A/7 network cables
4	Power/Signal indicator	When the device is powered on, the blue indicator light will be solid if the HDMI signal is detected. If the HDMI signal is not detected, the light will flash.
5	Power	Connects to the DC5V/2A power adapter
6	S/PDIF output	Connect to a speaker or amplifier
7	HDMI output	Connects to an HDMI display device
8	IR in	Connect using an IR receiver extension cable
9	IR out	Connect using an IR blaster extension cable

Installation Procedures

1. Network cable

Follow the IEEE-568B standards:

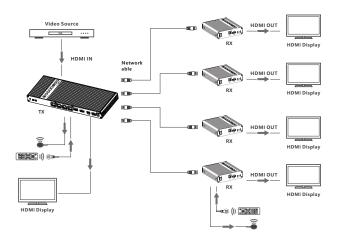
1-Orange/white 4-Blue 7-Brown/white 2-Orange 5-Blue/white

8-Brown



6-Green

2. Connection



3. Connection instructions

- 1) Connect the source device to the transmitter's HDMI IN port using an HDMI cable.
- 2) Connect the transmitter's CAT6 OUT port to the receiver's CAT6 IN port using network cables.
- 3) Connect the receiver's HDMI OUTPUT port to the display devices using HDMI cables.
- 4) If using an HDMI loop out, connect the transmitter's LOOP OUT port to the display using an HDMI cable.
- 5) If using the RS-232 control, connect the transmitter's RS-232 port to an external device.
- 6) Plug the power into the devices to get started.

4. IR User Guide

- The IR blaster extension cable connects to the IR OUT port of the transmitter or receiver. The IR receiver extension cable connects to the IR IN port of the transmitter or receivers.
- 2) The emitter of the IR blaster extension cable is recommended to be as close as possible to the IR receiving window of the source device.
- 3) Point the remote control at the receiving head of the IR receiver extension cable to operate.

Function setting

1. RS232 settings

The default configuration is as follows: Baud rate: 9600 Data bits: 8 Stop bits: 1 Parity: 0

Control Commands	Function Descriptions		
ES XX On/n	Turn on the network signal output port(s), choose from "01" to "04" (the network ports from right to left are: 01, 02, 03, 04.); "All" means all four ports		
ES XX Off/n	Turn off the network signa choose from "01" to "0 ports from right to left are: "All" means all four port	4" (the network 01, 02, 03, 04.);	
Reset/n	Restart the device		
Recover/n	Restore device to factory settings		
Baud XX /n	Set the baud rate value: 9600 (default), 19200, 38400, 57600, 115200		
Examples of control commands are shown below:			
Control Command	ES 04 On/n		
Function Description	Turn on network signal output port 04		
Return Values	Received successfully	ES 04 On OK	
Neturn values	Receive failed	ES 04 On FAIL	
Control Command	ES All Off/n		
Function Description	Turn off all the network signal output ports		
Return Values	Received successfully	ES All Off OK	
Return values	Receive failed	ES All Off FAIL	
Control Command	Reset/n		
Function Description	Restart the device		
Return Values	Received successfully	Reset OK	
Return values	Receive failed	Reset FAIL	
Control Command	Baud 19200/n		
Function Description	Set the baud rate value: 9600		
Return Values	Received successfully	Baud 19200 OK	
	Receive failed	Baud 19200 FAIL	

2. EDID settings:

The transmitter has 16 built-in EDID settings that can be configured using the DIP switch. Flipping the DIP switch upward indicates a "1" and flipping downward indicates a "0."



Switch up for "1"



Switch down for "0"

Switch Status				EDID Information
1	2	3	4	EDID Information
0	0	0	0	4K@60Hz 2CH
1	0	0	0	4K@60Hz 5.1CH
0	1	0	0	4K@60Hz 7.1CH
0	0	1	0	4K@60Hz HDR 7.1CH
0	0	0	1	4K@30Hz 2CH
1	1	0	0	4K@30Hz 5.1CH
1	0	1	0	4K@30Hz 7.1CH
1	0	0	1	4K@30Hz HDR 7.1CH
0	1	1	0	1080p@60Hz 2CH
0	1	0	1	1080p@60Hz 5.1CH
0	0	1	1	1080p@60Hz 7.1CH
1	1	1	0	1080i@60Hz 2CH
1	1	0	1	1080i@60Hz 5.1CH
1	0	1	1	1080i@60Hz 7.1CH
0	1	1	1	1080p@60Hz HDR 7.1CH
1	1	1	1	Auto

Auto: Auto output at a resolution compatible with all displays.

• FAQ

Q: Why does my display device not have an image?

A:

- 1) Check the power supply and all cables and ensure they are properly connected.
- 2) Check if the HDMI signal input is detected.
- 3) Check the corresponding network output and ensure it has not been turned off by the RS-232 command.

Q: Why is the output image unstable?

A:

- 1) Check the length of the network cable and ensure it is within the 70-meter limit.
- 2) Press the "reset" button on TX and RX panels to restart and reconnect.

Q: Why does the TV have a snowy/fuzzy screen?

A:

- 1) The HDMI cable may be defective or exceeds the recommended cable length and needs replacing.
- The recommended length of the HDMI cable connected to the transmitter is ≤3 meters, and the recommended length of the HDMI cable connected to the receiver is ≤5 meters.

Technical Parameters

Item	Specification
Transport protocol	ipcolor
Split mode	1 IN 4 OUT
Transmission Distance	CAT6/6A/7≤70m
HDMI signal	HDMI 2.0, HDCP2.2
Resolution	480i@60Hz,480p@60Hz,576i@50Hz,576p@50Hz, 720p@50/60Hz,1080i@50/60Hz,1080p@50/60Hz, 1280x960,1280x800,1280x768,1680x1050, 1360x768,1366x768,1600x900,1024x768,800x600, 3840x2160@24/25/30/50/60Hz,4096x2160@24/25Hz
Audio formats	LPCM/DTS-HD/DTS-Audio/Dolby Digital 5.1
IR	Bi-directional IR passback (20-60khz)
RS-232	3-pin: TxD-RxD-GND, follows RS-232 levels
Working Temperature	-20~60°C
Storage Temperature	-30~70°C
Humidity (no condensation)	0~90%
Protection	ESD protection 1a Contact discharge level 3 1b Air discharge level 3 Implementation of the standard: IEC61000-4-2
	Lightning protection
	Surge protection
Power supply	TX: DC 12V/2A RX: DC 5V/2A
Power consumption	TX<13W RX<4W
Material	Aluminum alloy material + crystal panel
Color	Black
Weight	TX: 640g RX: 210g
Dimension	TX: 264.00(L) x 104.00(W) x 23.50(H)mm RX: 106.0(L) x 99.0(W) x 26.2(H)mm

Tech Support

Before contacting tech support, we may have answered your question already! Visit our BZBGEAR support page at **bzbgear.com/support** for valuable information on our products.

Here you will find our Knowledge Base (**bzbgear.com/knowledge-base**) consisting of tutorials, quick start guides, and step-by-step troubleshooting instructions. Also visit our YouTube channel BZB TV at

youtube.com/c/BZBTVchannel for help setting up, connecting, and other how-to videos regarding our products.

If you still need answers, please call 1.888.499.9906,

email support@bzbgear.com, or chat at bzbgear.com.

Warranty

BZBGEAR Pro AV products and Cameras come with a three-year warranty. An extended two-year warranty is available for our Cameras upon registration for a total of five years.

For an extended two-year warranty on our Cameras, follow these steps:

- 1. Register your Camera within 90 days of purchase by visiting **bzbgear.com/warranty**.
- Complete the registration form. Provide all necessary proof of purchase details, including serial number and a copy of your sales receipt.
 For complete warranty information, please visit bzbgear.com/warranty or scan the QR code below.



Mission Statement

BZBGEAR manifests from the competitive nature of the audiovisual and live streaming industry to innovate while keeping the customer in mind. AV s olutions can cost a pretty penny, and new technology only adds to it. We believe everyone deserves to see, hear, and feel the advancements made in today' s AV world without having to break the bank. BZBGEAR is your answer for applications requiring the latest pro AV and live streaming solutions. You' Il notice comparably lower prices with BZBGEAR while the performance and quality are on par with the top brands in the industry. Our team offers system design consultation and expert tech support seven days a week for all BZBGEAR products. Our unparalleled support is our way of showing we care for every one of our customers. Whether you' re an integrator, home theater enthusiast, or a do-it-yourselfer, BZBGEAR offers solutions allowing you to focus on your project and not your budget.