

BG-UHD-SC1X2

4K/18G 1x2 HDMI Splitter Scaler w/ Audio

User Manual







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Statement

Please read these instructions carefully before connecting, operating, or configuring this product. Please save this manual for future reference.

Safety Precaution

- To prevent damaging this product, avoid heavy pressure, strong vibration, or immersion during transportation, storage, and installation.
- The housing of this product is made of organic materials. Do not expose to any liquid, gas, or solids which may corrode the shell.
- Do not expose the product to rain or moisture.
- To prevent the risk of electric shock, do not open the case. Installation and maintenance should only be carried out by qualified technicians.
- Do not use the product beyond the specified temperature, humidity, or power supply specifications.
- This product does not contain parts that can be maintained or repaired by users. Damage caused by dismantling the product without authorization from BZBGear is not covered under the warranty policy.
- Installation and use of this product must strictly comply with local electrical safety standards.
- This product contains sensitive electrical components that may be damaged by electrical spikes, surges, electric shock, lightning strikes, etc. Use of surge protection systems is highly recommended in order to protect and extend the life of your equipment.



Introduction

The BG-UHD-SC1X2 is a 4K/18G HDMI splitter with in-built scaler, designed for installations in which a single 4K video source needs to be distributed to multiple displays that support different maximum video resolutions. The BG-UHD-SC1X2 supports down-scaling of 4K video to a fixed resolution of 1080p or to a lower color gamut if the screen does not support 4K (4:4:4). It also includes audio embedding and de-embedding, advanced EDID management and supports HDCP 2.2 compliant.

The BG-UHD-SC1X2 allows those displays only capable of supporting lower video resolutions to receive scaled 4K (up to 60Hz 4:4:4) content while still showing the maximum original 4K UHD resolution on the higher-definition display.

Features

- 1x HDMI input to 2x HDMI outputs
- Supports resolution up to 4K@60Hz 4:4:4, HDR and full 3D formats
- HDMI output 1 down-scales the video to the following formats:
 - 1080P@24/25/30/60Hz (for screens that do not support 4K)
 - 4K@50/60Hz 4:2:0 (for screens that do not support full 4K@60Hz 4:4:4)
- HDMI output 2 supports 4K video bypass
- Audio de-embedding and embedding
- Advanced EDID management
- HDCP 2.2 compliant
- Slim design

Packing List

- 1 x BG-UHD-SC1X2 HDMI Splitter Scaler
- 1 x 5V/1A Power Supply
- 1 x Pair of Rack-mount Ears



Specifications

Bandwidth	18Gbps
Video Input Connectors	1x HDMI Type A, 19-pin, female
Audio Input Connectors	1x 3.5mm stereo jack (L/R)
Video Output Connectors	1x HDMI Type A, 19-pin, female
Audio Output Connectors	1x 3.5mm stereo jack (L/R)
EDID	4-PIN DIP Switcher
Mode	4-PIN DIP Switcher
Dimensions(W x D x H)	101mm x 103mm x 22mm, without feet
Shipping Weight	0.7KG
Operating Temperature	32°F to 104°F (0°C to 40°C)
Storage Temperature	-4°F to 140°F (-20°C to 60°C)
Power Supply	5V/1A DC

Panel Descriptions



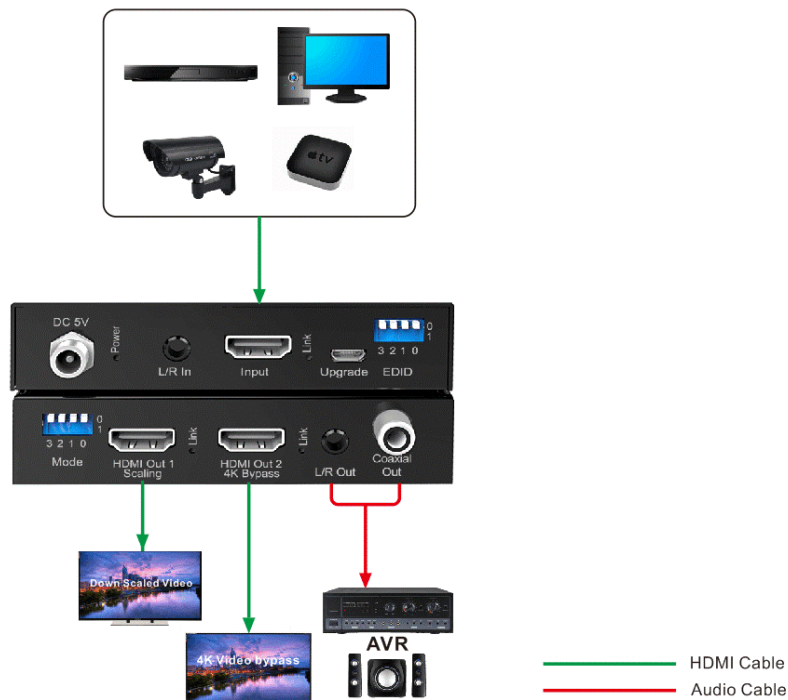
No.	Name	Function Description
1	DC power input	Screw-on locking connector, use the included 5V 1A DC adaptor to power the unit.
2	LED indicator for Power	Lit blue when unit is powered
3	L/R In	3.5mm stereo jack, to embed the audio on to HDMI output
4	HDMI input	Connect to a HDMI source device
5	HDMI input LED indicator	Lit when there is an active HDMI connection to a source device
6	Upgrade	Micro USB port for firmware upgrade
7	Mode DIP Switch	4 pin (UP=0, DOWN=1) [1xx0]: Always convert 4K format to 1080p [0xx0]: Auto convert 4K format to 1080p when detect the sink does not support 4K [x1x0]: HDCP follow source [x0x0]: HDCP follow sink [xx10]: Audio insert [xx00]: Audio bypass [xxx1]: Mode control by RS232 command (by upgrade port connect) [xxX0]: Mode control by DIP switch



8	DIP switcher*	EDID management
9	HDMI output 1	Scaled video output, connect to HDMI sink device
10	HDMI output 1 LED indicator	Lit when detecting an active HDMI connection to a sink device
11	HDMI output 2	Bypass video output, connect to HDMI sink device
12	HDMI output 2 LED indicator	Lit when detecting an active HDMI connection to a sink device
13	L/R Out	3.5mm stereo jack, extract the audio from the HDMI input, PCM 2ch audio only
14	Coaxial out	Extract the audio from HDMI input

3	2	1	0	EDID Type*
Combination of DIP positions				
0	0	0	0	HDMI 1080p@60Hz, Audio 2CH PCM
0	0	0	1	HDMI 1080p@60Hz, Audio 5.1CH DTS/DOLBY
0	0	1	0	HDMI 1080p@60Hz, Audio 7.1CH DTS/DOLBY/HD
0	0	1	1	HDMI 1080i@60Hz, Audio 2CH PCM
0	1	0	0	HDMI 1080i@60Hz, Audio 5.1CH DTS/DOLBY
0	1	0	1	HDMI 1080i@60Hz, Audio 7.1CH DTS/DOLBY/HD
0	1	1	0	HDMI 4K@60Hz 4:2:0, Audio 2CH PCM
0	1	1	1	HDMI 4K@60Hz 4:2:0, Audio 5.1CH DTS/DOLBY
1	0	0	0	HDMI 4K@60Hz 4:2:0, Audio 7.1CH DTS/DOLBY/HD
1	0	0	1	HDMI 4K@60Hz 4:4:4, Audio 2CH PCM
1	0	1	0	HDMI 4K@60Hz 4:4:4, Audio 5.1CH DTS/DOLBY
1	0	1	1	HDMI 4K@60Hz 4:4:4, Audio 7.1CH DTS/DOLBY/HD
1	1	0	0	DVI 1280x1024@60Hz, Audio None
1	1	0	1	DVI 1920x1080@60Hz, Audio None
1	1	1	0	DVI 1920x1200@60Hz, Audio None
1	1	1	1	Copy Output 1 EDID

Application Example





Tech Support

Have technical questions? We may have answered them already!

Please visit BZBGear's support page (bzbgear.com/support) for helpful information and tips regarding our products. Here you will find our Knowledge Base (bzbgear.com/knowledge-base) with detailed tutorials, quick start guides, and step-by-step troubleshooting instructions. Or explore our YouTube channel, BZB TV (youtube.com/c/BZBTVchannel), for help setting up, configuring, and other helpful how-to videos about our gear.

Need more in-depth support? Connect with one of our technical specialists directly:

Phone	Email	Live Chat
1.888.499.9906	support@bzbgear.com	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 complete warranty information, please visit BZBGear.com/warranty.

For questions, please call 1.888.499.9906 or email support@bzbgear.com.

Mission Statement

BZBGear is a breakthrough manufacturer of high-quality, innovative audiovisual equipment ranging from AVoIP, professional broadcasting, conferencing, home theater, to live streaming solutions. We pride ourselves on unparalleled customer support and services. Our team offers system design consultation, and highly reviewed technical support for all the products in our catalog. BZBGear delivers quality products designed with users in mind.

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