

BG-8K-SA

48Gbps HDMI eARC Audio to Soundbar Adapter

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.

Surge protection device recommended

This product contains sensitive electrical components that electrical spikes, surges, electric shocks, lightning strikes, etc may damage. Use of surge protection systems is highly recommended to protect and extend the life of your equipment.



Introduction

This HDMI eARC Audio to Soundbar Adapter is designed to extract audio signals from an HDMI source or TV with ARC/eARC and output them to a soundbar. It supports data rates up to 48Gbps, complying with HDMI 2.1 and HDCP 2.3 standards. The adapter is compatible with UHDTV 8K@60Hz. It includes several features for ease of integration, such as EDID management and cable equalization, providing a simple solution for HDMI installations to send audio signals to a soundbar. Additionally, it supports CEC control from the TV to the source and soundbar.

Features

- HDMI 2.1 and HDCP 2.3 compliant
- Support 48Gbps FRL and 18Gbps TMDS video bandwidth
- Support video resolution up to 8K@60Hz 4:2:0 12bit, 4K@120Hz 4:4:4 12bit
- HDMI 2.1 protocols: VRR, ALLM, QMS, QFT, and SBTM are supported
- HDR, HDR 10, HDR 10+, Dolby Vision, HLG pass-through
- LPCM 7.1CH, Dolby TrueHD, Atmos and DTS-HD Master, DTS:X Audio pass-through
- HDMI input audio or TV eARC audio de-embedded to any Soundbar
- Full audio up to Dolby Atmos/DTS:x from eARC TV to SONOS ARC &
- Beam or any eARC Soundbar
- Support CEC control from TV to the source and Soundbar
- Support CEC volume control from TV to any sound system
- Advanced EDID management

Packing List

- 1 x 48Gbps HDMI eARC Audio to Soundbar Adapter
- 1 × 5V/1A Multinational Power Supply
- 1 × User Manual



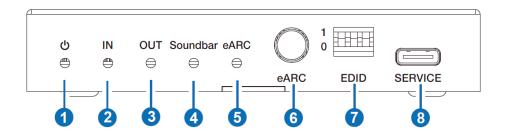
Specifications

Technical				
HDMI Compliance	HDMI 2.1			
HDCP Compliance	HDCP 2.3	HDCP 2.3		
Video Bandwidth	48Gbps FRL a	nd 18Gbps TMDS		
Video Resolution	Up to 8K@60H	lz 4:2:0 12bit, 4K@120F	Hz 4:4:4 12bit	
Audio Latency	No Latency			
Video Latency	No Latency			
Color Depth	8/10/12bit			
Color Space	RGB_4:4:4, YC	CbCr_4:4:4, YCbCr_4:2:	2, YCbCr_4:2:0	
Audio Formats	HDMI IN/OUT: LPCM, Dolby Digital/Plus/EX, Dolby True HD, Dolby Atmos, DTS, DSD, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DTS:X eARC AUDIO OUT: LPCM, Dolby Digital/Plus/EX, Dolby True HD, Dolby Atmos, DTS, DSD, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DTS:X			
HDR		HDR10+, Dolby Vision,		ю, вто.х
		2: ±8kV (Air-gap dischar		t discharge)
ESD Protection	120 01000 4 2	±okv (/ iii gap aloonal	go, a ±4kv (contac	- Calouraryo,
Connection	I. 0 1011			
Input	1 × Source IN [HDMI Type A, 19-pin female]			
Output	Output 1 × TV(eARC) OUT [HDMI Type A, 19-pin female]			
Control	1 × Soundbar eARC OUT [HDMI Type A, 19-pin female] 1 × SERVICE [USB Type C, Update port]			
Mechanical	TI X OLIVIOL [OOD Type O, Opdate pe	714	
Housing	Metal Enclosur	re		
Color	Black			
Dimensions	3.7in x 2.7in x 0.71in [95mm [W] × 68mm [D] × 18mm [H]]			
Weight	0.39 lbs [178g]			
Power Supply	Input: AC 100-240V 50/60Hz, Output: DC 5V/1A (US/EU standards, CE/FCC/UL certified)			
Power Consumption	· ·			
Operation Temperature	32°F ~ 104°F /	0°C ~ 40°C		
Storage Temperature -4°F ~ 140°F / -20°C ~ 60°C				
Relative Humidity 20~90% RH (non-condensing)				
Recommended HD	OMI Cable			
Video Resolution	8K60	4K60	4K30	1080P
HDMI Cable	2m/6.6ft ~	F // 05	40 /007	45 (165
Length (HDMI in / out)	3m/10ft (Ultra HDMI 2.1)	5m/16ft	10m/33ft	15m/49ft
The use of "Premiur	m High Speed HD	MI" cables is highly red	commended.	



Operation Controls and Functions

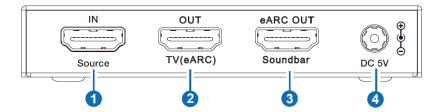
Front Panel



No.	Name	Function Description	
1	Power LED	When the device is powered on, the red LED will be on.	
2	IN LED	When the input signal is detected, the green LED will be on.	
3	OUT LED	When the OUT port connects to a TV, the green LED will be on.	
4	Soundbar LED	•When the eARC OUT port connects to a soundbar, the green LED will be on.	
5	eARC LED	 On: The ARC/eARC function is turned on. CEC communication and ARC/eARC is working properly. Flashing: The ARC/eARC function is turned on. CEC communication and ARC/eARC is not working properly. Off: The ARC/eARC function is turned off. 	
6	eARC button	Press this button to enable or disable the eARC function.	
7	EDID DIP switch	Use the DIP switch to set EDID. [DIP]=111: Copy OUT port sink video and audio EDID [DIP]=110: Copy OUT port sink video EDID, Audio 7.1CH [DIP]=101: FRL12G_8K_HDR, 2.0CH [DIP]=100: FRL12G_8K_HDR, 5.1CH [DIP]=011: FRL12G_8K_HDR, 7.1CH [DIP]=010: FRL10G_8K_HDR, 2.0CH [DIP]=001: FRL10G_8K_HDR, 5.1CH [DIP]=000: FRL10G_8K_HDR, 7.1CH	
8	SERVICE	Firmware update and debug port.	



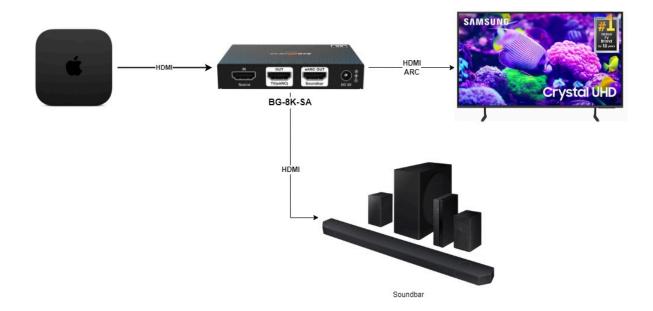
Rear Panel



No.	Name	Function Description
1	Source IN port	HDMI signal input port, connected to HDMI source device such as DVD, PS5 or 8K computer host with an HDMI cable.
2	TV(eARC) OUT port	HDMI signal output port, connected to TV (ARC/eARC) with an HDMI cable. It can be used as an ARC/eARC audio channel when the ARC function is enabled.
3	Soundbar eARC OUT	HDMI audio output port, connected to a soundbar with an HDMI cable.
4	DC 5V	DC 5V/1A power input port.



Connection Diagram





Troubleshooting

Problems	Causes	Solutions
No Power / All LED off	Power supply not connected, connected fully, or wrong power supply.	Check if the power supply is connected correctly and the output voltage value is within recommended specifications.
No sound or sound issues	The HDMI connection is faulty, the audio format is not supported by the displays, or the source player is set to another port for audio output	Check if the HDMI cables are connected correctly. Check if the audio format is supported by the display and that a user has not changed the supported audio format on the player's audio output. Ensure output settings from the HDMI source device as set correctly.
No picture or picture flickers	The HDMI cable may be faulty or the category cable quality is faulty.	Check if the HDMI and category cable connections are correct and undamaged. Change to another good working HDMI cable or category cable (CAT6 or better cable is recommended).



Tech Support

Have technical questions? We may have answered them already!

Please visit BZBGEAR's support page (<u>bzbgear.com/support</u>) for helpful information and tips regarding our products. Here you will find our Knowledge Base (<u>bzbgear.com/knowledge-base</u>) with detailed tutorials, quick start guides, and step-by-step troubleshooting instructions. Or explore our YouTube channel, BZB TV (<u>youtube.com/c/BZBTVchannel</u>), 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:

<u>Phone</u>	<u>Email</u>	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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