

BG-8K-AA

48Gbps eARC Audio to Amplifier Adapter

User Manual







Table of Contents

4
4
4
5
5
5
6
8
10
11
12
12
13
14



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

The BG-8K-AA 48Gbps HDMI Audio De-embedder is a versatile and high-performance device designed to extract audio signals from HDMI sources or ARC-compatible TVs. It outputs both analog stereo and digital S/PDIF audio while providing a buffered HDMI video output. With support for the latest HDMI 2.1 and HDCP 2.3 standards, this de-embedder offers exceptional video quality and comprehensive audio pass-through capabilities, making it an ideal solution for advanced home theater setups and professional AV installations.

Features

- HDCP 2.3 compliant
- Support 48Gbps FRL and 18Gbps TMDS video bandwidth, as specified in HDMI 2.1
- Support video resolution up to 8K@60Hz 4:2:0 12bit, 4K@120Hz 4:4:4 12bit
- Support VRR, ALLM, QMS, QFT, SBTM, as specified in HDMI 2.1
- 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 ARC/eARC audio de-embedded to HDMI audio output
- Support CEC control from TV to the source and amplifier
- Support CEC volume control from TV to the amplifier sound system
- Advanced EDID management
- Compact design for easy and flexible installation

Packing List

- 1 × 48Gbps HDMI eARC Audio to Amplifier Adapter
- 1 × 5V/2A Multinational Power Supply
- 1 × User Manual



Specifications

HDMI HDMI L2.1	Technical			
HDCP Compliance	HDMI	HDMI 2.1		
Compliance 48Gbps FRL and 18Gbps TMDS Video Resolution Up to 8K@60Hz 4:2:0 12bit, 4K@120Hz 4:4:4 12bit Audio Latency No Latency Video Latency No Latency Color Depth 8/10/12bit Color Space RGB_4:4:4, YCbCr_4:4:4, YCbCr_4:2:2, YCbCr_4:2:0 HDMI IN/OUT:	Compliance			
Video Bandwidth 48Gbps FRL and 18Gbps TMDS Video Resolution Up to 8K@60Hz 4:2:0 12bit, 4K@120Hz 4:4:4 12bit Audio Latency No Latency Color Depth 8/10/12bit Color Space RGB_4:4:4, YCbCr_4:4:4, YCbCr_4:2:2, YCbCr_4:2:0 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 HDMI AUDIO OUT: LPCM, Dolby Digital/Plus/EX, Dolby True HD, Dolby Atmos, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DTS:X HDR HDR, HDR10, HDR10+, Dolby Vision, HLG ESD Protection IEC 61000-4-2: ±8kV (Air-gap discharge) & ±4kV (Contact discharge) Connection 1 x Source IN [HDMI Type A, 19-pin female] Output 1 x TV(eARC) OUT [HDMI Type A, 19-pin female] Control 1 x SERVICE [USB Type C, Update port] Mechanical Housing Metal Enclosure Color Black Dimensions 3.7 in x 2.7 in x 0.7 iin [95mm [W] x 68mm [D] x 18mm [H]] Weight 0.39 lbs [178g] Power Supply 4.5W (Max) Consumption 32°F ~ 104°F / 0°C ~ 40°C Foreigneture 4°F ~ 140°F / -20°C ~ 60°C </td <td>HDCP</td> <td colspan="3">HDCP 2.3</td>	HDCP	HDCP 2.3		
Video Resolution Up to 8K@60Hz 4:2:0 12bit, 4K@120Hz 4:4:4 12bit Audio Latency No Latency Video Latency No Latency Color Depth 8/10/12bit Color Space RGB_4:4.4, YCbCr_4:4:4, YCbCr_4:2:2, YCbCr_4:2:0 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 HDMI ADDIO 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 HDR, HDR10, HDR10+, Dolby Vision, HLG ESD Protection IEC 61000-4-2: ±8kV (Air-gap discharge) & ±4kV (Contact discharge) Connection Connection 1 × Source IN [HDMI Type A, 19-pin female] Connection 1 × TV(eARC) OUT [HDMI Type A, 19-pin female] Control 1 × SERVICE [USB Type C, Update port] Mechanical Housing Metal Enclosure Color Black Dimensions 3.7in x 2.7in x 0.71in [95mm [W] x 68mm [D] x 18mm [H]] Weight 0.39 lbs [178g] Power S	Compliance			
Audio Latency No Latency Video Latency No Latency Color Depth 8/10/12bit Color Space RGB_4:4:4, YCbCr_4:4:4, YCbCr_4:2:2, YCbCr_4:2:0 HDMI IN/OUT:	Video Bandwidth	48Gbps FRL and 18Gbps TMDS		
Video Latency No Latency Color Depth 8/10/12bit Color Space RGB 4:4:4, YCbCr_4:4:4, YCbCr_4:2:2, YCbCr_4:2:0 HDMI IN/OUT:	Video Resolution	Up to 8K@60Hz 4:2:0 12bit, 4K@120Hz 4:4:4 12bit		
Color Depth 8/10/12bit Color Space RGB_4:4:4, YCbCr_4:4:4, YCbCr_4:2:2, YCbCr_4:2:0 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 HDMI 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 HDR, HDR10, HDR10+, Dolby Vision, HLG ESD Protection Connection Input 1 × Source IN [HDMI Type A, 19-pin female] Output 1 × TV(eARC) OUT [HDMI Type A, 19-pin female] 1 × Amp AUDIO OUT [HDMI Type A, 19-pin female] Control 1 × SERVICE [USB Type C, Update port] Mechanical Housing Metal Enclosure Color Black Dimensions 3.7in x 2.7in x 0.71in [95mm [W] x 68mm [D] x 18mm [H]] Weight 0.39 lbs [178g] Power Supply Input: AC 100-240V 50/60Hz, Output: DC 5V/2A (US/EU standards, CE/FCC/UL certified) Power Consumption Operation Iemperature 4°F ~ 140°F / -20°C ~ 60°C	Audio Latency	No Latency		
Color Space RGB_4:4:4, YCbCr_4:2:4, YCbCr_4:2:0 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 HDMI 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 HDR, HDR10, HDR10+, Dolby Vision, HLG ESD Protection Connection Input 1 × Source IN [HDMI Type A, 19-pin female] Output 1 × TV(eARC) OUT [HDMI Type A, 19-pin female] 1 × Amp AUDIO OUT [HDMI Type A, 19-pin female] Control 1 × SERVICE [USB Type C, Update port] Mechanical Housing Metal Enclosure Color Black Dimensions 3.7in x 2.7in x 0.71in [95mm [W] x 68mm [D] x 18mm [H]] Weight 0.39 lbs [178g] Power Supply Input: AC 100-240V 50/60Hz, Output: DC 5V/2A (US/EU standards, CE/FCC/UL certified) 4.5W (Max) Operation Femperature Temperature Generative For 140°F / -20°C ~ 60°C	Video Latency	No Latency		
Audio Formats DTS-96/24, DTS High Res, DTS-HD Master Audio, DTS:X HDMI 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 HDR, HDR10, HDR10+, Dolby Vision, HLG ESD Protection Connection Input 1 × Source IN [HDMI Type A, 19-pin female] Output 1 × TV(eARC) OUT [HDMI Type A, 19-pin female] Control 1 × SERVICE [USB Type C, Update port] Mechanical Housing Metal Enclosure Color Black Dimensions 3.7in x 2.7in x 0.71in [95mm [W] x 68mm [D] x 18mm [H]] Weight 0.39 lbs [178g] Power Supply Power Consumption Operation Imperature 4.°F ~ 140°F / -20°C ~ 60°C	Color Depth	8/10/12bit		
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 HDMI 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 HDR, HDR10, HDR10+, Dolby Vision, HLG IEC 61000-4-2: ±8kV (Air-gap discharge) & ±4kV (Contact discharge) Connection Input 1 × Source IN [HDMI Type A, 19-pin female] Output 1 × TV(eARC) OUT [HDMI Type A, 19-pin female] 1 × Amp AUDIO OUT [HDMI Type A, 19-pin female] Control 1 × SERVICE [USB Type C, Update port] Mechanical Housing Metal Enclosure Color Black Dimensions 3.7in x 2.7in x 0.71in [95mm [W] x 68mm [D] x 18mm [H]] Weight 0.39 lbs [178g] Power Supply Input: AC 100-240V 50/60Hz, Output: DC 5V/2A (US/EU standards, CE/FCC/UL certified) Power Consumption 0.2eration temperature Storage -4°F ~ 140°F / °C ~ 40°C Storage Temperature	Color Space	RGB_4:4:4, YCbCr_4:4:4, YCbCr_4:2:2, YCbCr_4:2:0		
Audio Formats DTS-96/24, DTS High Res, DTS-HD Master Audio, DTS:X HDMI AUDIO OUT: LPCM, Dolby Digital/Plus/EX, Dolby Atmos, DTS, DSD, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DTS:X HDR HDR, HDR10, HDR10+, Dolby Vision, HLG IEC 61000-4-2: ±8kV (Air-gap discharge) & ±4kV (Contact discharge) Connection Input 1 × Source IN [HDMI Type A, 19-pin female] Output 1 × TV(eARC) OUT [HDMI Type A, 19-pin female] 1 × Amp AUDIO OUT [HDMI Type A, 19-pin female] Control 1 × SERVICE [USB Type C, Update port] Mechanical Housing Metal Enclosure Color Black Dimensions 3.7in x 2.7in x 0.71in [95mm [W] x 68mm [D] x 18mm [H]] Weight 0.39 lbs [178g] Power Supply Input: AC 100-240V 50/60Hz, Output: DC 5V/2A (US/EU standards, CE/FCC/UL certified) Power 4.5W (Max) Operation Temperature Storage -4°F ~ 140°F / -20°C ~ 60°C		HDMI IN/OUT:		
HDMI 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 HDR, HDR10, HDR10+, Dolby Vision, HLG ESD Protection Connection Input 1 × Source IN [HDMI Type A, 19-pin female] Output 1 × TV(eARC) OUT [HDMI Type A, 19-pin female] Control 1 × SERVICE [USB Type C, Update port] Mechanical Housing Metal Enclosure Color Black Dimensions 3.7in x 2.7in x 0.71in [95mm [W] x 68mm [D] x 18mm [H]] Weight 0.39 lbs [178g] Power Supply CE/FCC/UL certified) Power Consumption Operation Imperature 32°F ~ 104°F / 0°C ~ 40°C Storage 7-4°F ~ 140°F / -20°C ~ 60°C Temperature Temperature		LPCM, Dolby Digital/Plus/EX, Dolby True HD, Dolby Atmos, DTS, DSD, DTS-EX,		
HDMI 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 HDR, HDR10, HDR10+, Dolby Vision, HLG ESD Protection IEC 61000-4-2: ±8kV (Air-gap discharge) & ±4kV (Contact discharge) Connection Input 1 × TV(eARC) OUT [HDMI Type A, 19-pin female] Output 1 × TV(eARC) OUT [HDMI Type A, 19-pin female] 1 × Amp AUDIO OUT [HDMI Type A, 19-pin female] Control 1 × SERVICE [USB Type C, Update port] Mechanical Housing Metal Enclosure Color Black Dimensions 3.7in x 2.7in x 0.71in [95mm [W] x 68mm [D] x 18mm [H]] Weight 0.39 lbs [178g] Power Supply CE/FCC/UL certified) Power Consumption Operation Generature 1-4°F ~ 140°F / -20°C ~ 60°C Temperature Policy A Dissertion Audio, DTS-HD Master Audio, DTS-HD Master Audio, DISSERTION DISSERTION AUDIO OUT LPCM, Date HD, Dolby A HDR Master Audio, DTS-HD Master Audio DTS-HD Master Audio, DTS-H	Audio Formats	DTS-96/24, DTS High Res, DTS-HD Master Audio, DTS:X		
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 HDR, HDR10, HDR10+, Dolby Vision, HLG ESD Protection IEC 61000-4-2: ±8kV (Air-gap discharge) & ±4kV (Contact discharge) Connection Input 1 × Source IN [HDMI Type A, 19-pin female] Output 1 × TV(eARC) OUT [HDMI Type A, 19-pin female] 1 × Amp AUDIO OUT [HDMI Type A, 19-pin female] Control 1 × SERVICE [USB Type C, Update port] Mechanical Housing Metal Enclosure Color Black Dimensions 3.7in x 2.7in x 0.71in [95mm [W] x 68mm [D] x 18mm [H]] Weight 0.39 lbs [178g] Power Supply CE/FCC/UL certified) Power 4.5W (Max) Consumption Operation 32°F ~ 104°F / 0°C ~ 40°C Storage Temperature 1 × STS-HQ Master Audio, DTS-HD Master Audio, DTS	Addio i diffiats	HDMI AUDIO OUT:		
Doiby True HD, Dolby Atmos, DTS, DSD, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DTS:X HDR HDR, HDR10, HDR10+, Dolby Vision, HLG ESD Protection IEC 61000-4-2: ±8kV (Air-gap discharge) & ±4kV (Contact discharge) Connection Input 1 × Source IN [HDMI Type A, 19-pin female] Output 1 × TV(eARC) OUT [HDMI Type A, 19-pin female] 1 × Amp AUDIO OUT [HDMI Type A, 19-pin female] Control 1 × SERVICE [USB Type C, Update port] Mechanical Housing Metal Enclosure Color Black Dimensions 3.7in x 2.7in x 0.71in [95mm [W] x 68mm [D] x 18mm [H]] Weight 0.39 lbs [178g] Power Supply Input: AC 100-240V 50/60Hz, Output: DC 5V/2A (US/EU standards, CE/FCC/UL certified) Power Consumption Operation 32°F ~ 104°F / 0°C ~ 40°C Storage Temperature -4°F ~ 140°F / -20°C ~ 60°C				
Dolby Atmos, DTS, DSD, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DTS:X HDR HDR, HDR10, HDR10+, Dolby Vision, HLG ESD Protection IEC 61000-4-2: ±8kV (Air-gap discharge) & ±4kV (Contact discharge) Connection Input 1 × Source IN [HDMI Type A, 19-pin female] Output 1 × TV(eARC) OUT [HDMI Type A, 19-pin female] 1 × Amp AUDIO OUT [HDMI Type A, 19-pin female] Control 1 × SERVICE [USB Type C, Update port] Mechanical Housing Metal Enclosure Color Black Dimensions 3.7in × 2.7in × 0.71in [95mm [W] × 68mm [D] × 18mm [H]] Weight 0.39 lbs [178g] Power Supply Input: AC 100-240V 50/60Hz, Output: DC 5V/2A (US/EU standards, CE/FCC/UL certified) Power Consumption 32°F ~ 104°F / 0°C ~ 40°C Storage Temperature - 4°F ~ 140°F / -20°C ~ 60°C				
DTS, DSD, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DTS:X HDR HDR, HDR10, HDR10+, Dolby Vision, HLG ESD Protection IEC 61000-4-2: ±8kV (Air-gap discharge) & ±4kV (Contact discharge) Connection Input 1 × Source IN [HDMI Type A, 19-pin female] Output 1 × TV(eARC) OUT [HDMI Type A, 19-pin female] 1 × Amp AUDIO OUT [HDMI Type A, 19-pin female] Control 1 × SERVICE [USB Type C, Update port] Mechanical Housing Metal Enclosure Color Black Dimensions 3.7in × 2.7in × 0.71in [95mm [W] × 68mm [D] × 18mm [H]] Weight 0.39 lbs [178g] Power Supply Input: AC 100-240V 50/60Hz, Output: DC 5V/2A (US/EU standards, CE/FCC/UL certified) Power Consumption 32°F ~ 104°F / 0°C ~ 40°C Storage Temperature 4°F ~ 140°F / -20°C ~ 60°C				
DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DTS:X HDR HDR, HDR10, HDR10+, Dolby Vision, HLG ESD Protection IEC 61000-4-2: ±8kV (Air-gap discharge) & ±4kV (Contact discharge) Connection Input 1 × Source IN [HDMI Type A, 19-pin female] Output 1 × TV(eARC) OUT [HDMI Type A, 19-pin female] 1 × Amp AUDIO OUT [HDMI Type A, 19-pin female] Control 1 × SERVICE [USB Type C, Update port] Mechanical Housing Metal Enclosure Color Black Dimensions 3.7in x 2.7in x 0.71in [95mm [W] x 68mm [D] x 18mm [H]] Weight 0.39 lbs [178g] Power Supply Input: AC 100-240V 50/60Hz, Output: DC 5V/2A (US/EU standards, CE/FCC/UL certified) Power Consumption 32°F ~ 104°F / 0°C ~ 40°C Storage Temperature 74				
ESD Protection IEC 61000-4-2: ±8kV (Air-gap discharge) & ±4kV (Contact discharge)				
Connection Input I × Source IN [HDMI Type A, 19-pin female] Output I × TV(eARC) OUT [HDMI Type A, 19-pin female] 1 × Amp AUDIO OUT [HDMI Type A, 19-pin female] Control I × SERVICE [USB Type C, Update port] Mechanical Housing Metal Enclosure Color Black Dimensions 3.7in × 2.7in × 0.71in [95mm [W] × 68mm [D] × 18mm [H]] Weight 0.39 Ibs [178g] Power Supply Input: AC 100-240V 50/60Hz, Output: DC 5V/2A (US/EU standards, CE/FCC/UL certified) Power Consumption Operation Temperature Storage Temperature Temperature	HDR	HDR, HDR10, HDR10+, Dolby Vision, HLG		
Input 1 × Source IN [HDMI Type A, 19-pin female] Output 1 × TV(eARC) OUT [HDMI Type A, 19-pin female] 1 × Amp AUDIO OUT [HDMI Type A, 19-pin female] 1 × Amp AUDIO OUT [HDMI Type A, 19-pin female] Control 1 × SERVICE [USB Type C, Update port] Mechanical Housing Metal Enclosure Color Black Dimensions 3.7in x 2.7in x 0.71in [95mm [W] x 68mm [D] x 18mm [H]] Weight 0.39 lbs [178g] Power Supply Input: AC 100-240V 50/60Hz, Output: DC 5V/2A (US/EU standards, CE/FCC/UL certified) Power Consumption 32°F ~ 104°F / 0°C ~ 40°C Storage Temperature 7 × 140°F / -20°C ~ 60°C	ESD Protection	IEC 61000-4-2: ±8kV (Air-gap discharge) & ±4kV (Contact discharge)		
Output 1 × TV(eARC) OUT [HDMI Type A, 19-pin female] 1 × Amp AUDIO OUT [HDMI Type A, 19-pin female] Control 1 × SERVICE [USB Type C, Update port] Mechanical Housing Metal Enclosure Color Black Dimensions 3.7in x 2.7in x 0.71in [95mm [W] x 68mm [D] x 18mm [H]] Weight 0.39 lbs [178g] Power Supply Input: AC 100-240V 50/60Hz, Output: DC 5V/2A (US/EU standards, CE/FCC/UL certified) Power 4.5W (Max) Operation Temperature 32°F ~ 104°F / 0°C ~ 40°C Storage 7-4°F ~ 140°F / -20°C ~ 60°C				
Output 1 × TV(eARC) OUT [HDMI Type A, 19-pin female] 1 × Amp AUDIO OUT [HDMI Type A, 19-pin female] Control 1 × SERVICE [USB Type C, Update port] Mechanical Housing Metal Enclosure Color Black Dimensions 3.7in x 2.7in x 0.71in [95mm [W] x 68mm [D] x 18mm [H]] Weight 0.39 lbs [178g] Power Supply Input: AC 100-240V 50/60Hz, Output: DC 5V/2A (US/EU standards, CE/FCC/UL certified) Power 4.5W (Max) Operation Temperature 32°F ~ 104°F / 0°C ~ 40°C Storage 7-4°F ~ 140°F / -20°C ~ 60°C	Input	1 × Source IN [HDMI Type A, 19-pin female]		
[HDMI Type A, 19-pin female] Control 1 × SERVICE [USB Type C, Update port] Mechanical Housing Metal Enclosure Color Black Dimensions 3.7in x 2.7in x 0.71in [95mm [W] x 68mm [D] x 18mm [H]] Weight 0.39 lbs [178g] Power Supply Input: AC 100-240V 50/60Hz, Output: DC 5V/2A (US/EU standards, CE/FCC/UL certified) Power Consumption 4.5W (Max) Operation Temperature 32°F ~ 104°F / 0°C ~ 40°C Storage -4°F ~ 140°F / -20°C ~ 60°C	'			
[HDMI Type A, 19-pin female] Control 1 × SERVICE [USB Type C, Update port] Mechanical Housing Metal Enclosure Color Black Dimensions 3.7in x 2.7in x 0.71in [95mm [W] x 68mm [D] x 18mm [H]] Weight 0.39 lbs [178g] Power Supply Input: AC 100-240V 50/60Hz, Output: DC 5V/2A (US/EU standards, CE/FCC/UL certified) Power Consumption 4.5W (Max) Operation Temperature 32°F ~ 104°F / 0°C ~ 40°C Storage -4°F ~ 140°F / -20°C ~ 60°C	Output	1 × TV(eARC) OLIT [HDMLType A 19-pin female] 1 × Amp ALIDIO OLIT		
Control 1 × SERVICE [USB Type C, Update port] Mechanical Housing Metal Enclosure Color Black Dimensions 3.7in x 2.7in x 0.71in [95mm [W] x 68mm [D] x 18mm [H]] Weight 0.39 lbs [178g] Power Supply Input: AC 100-240V 50/60Hz, Output: DC 5V/2A (US/EU standards, CE/FCC/UL certified) Power Consumption 32°F ~ 104°F / 0°C ~ 40°C Storage Temperature -4°F ~ 140°F / -20°C ~ 60°C				
Mechanical Housing Metal Enclosure Color Black Dimensions 3.7in x 2.7in x 0.71in [95mm [W] x 68mm [D] x 18mm [H]] Weight 0.39 lbs [178g] Power Supply Input: AC 100-240V 50/60Hz, Output: DC 5V/2A (US/EU standards, CE/FCC/UL certified) Power 4.5W (Max) Operation Temperature 32°F ~ 104°F / 0°C ~ 40°C Storage -4°F ~ 140°F / -20°C ~ 60°C Temperature		[Hiddin Type A, 19-pin lemale]		
Housing Metal Enclosure Color Black Dimensions 3.7in x 2.7in x 0.71in [95mm [W] x 68mm [D] x 18mm [H]] Weight 0.39 lbs [178g] Power Supply Input: AC 100-240V 50/60Hz, Output: DC 5V/2A (US/EU standards, CE/FCC/UL certified) Power 4.5W (Max) Operation Temperature 32°F ~ 104°F / 0°C ~ 40°C Storage -4°F ~ 140°F / -20°C ~ 60°C Temperature	Control	1 × SERVICE [USB Type C, Update port]		
Housing Metal Enclosure Color Black Dimensions 3.7in x 2.7in x 0.71in [95mm [W] x 68mm [D] x 18mm [H]] Weight 0.39 lbs [178g] Power Supply Input: AC 100-240V 50/60Hz, Output: DC 5V/2A (US/EU standards, CE/FCC/UL certified) Power 4.5W (Max) Operation Temperature 32°F ~ 104°F / 0°C ~ 40°C Storage -4°F ~ 140°F / -20°C ~ 60°C Temperature				
Color Black Dimensions 3.7in x 2.7in x 0.71in [95mm [W] x 68mm [D] x 18mm [H]] Weight 0.39 lbs [178g] Power Supply Input: AC 100-240V 50/60Hz, Output: DC 5V/2A (US/EU standards, CE/FCC/UL certified) Power Consumption 4.5W (Max) Operation Temperature 32°F ~ 104°F / 0°C ~ 40°C Storage Temperature -4°F ~ 140°F / -20°C ~ 60°C	Mechanical			
Dimensions 3.7in x 2.7in x 0.71in [95mm [W] x 68mm [D] x 18mm [H]] Weight 0.39 lbs [178g] Power Supply Input: AC 100-240V 50/60Hz, Output: DC 5V/2A (US/EU standards, CE/FCC/UL certified) Power Consumption 4.5W (Max) Operation Temperature 32°F ~ 104°F / 0°C ~ 40°C Storage Temperature -4°F ~ 140°F / -20°C ~ 60°C	Housing	Metal Enclosure		
Weight 0.39 lbs [178g] Power Supply Input: AC 100-240V 50/60Hz, Output: DC 5V/2A (US/EU standards, CE/FCC/UL certified) Power Consumption 4.5W (Max) Operation Temperature 32°F ~ 104°F / 0°C ~ 40°C Storage -4°F ~ 140°F / -20°C ~ 60°C Temperature 7.00	Color	Black		
Power Supply Input: AC 100-240V 50/60Hz, Output: DC 5V/2A (US/EU standards, CE/FCC/UL certified) Power 4.5W (Max) Consumption 32°F ~ 104°F / 0°C ~ 40°C Storage 7-4°F ~ 140°F / -20°C ~ 60°C Temperature 7-20°C ~ 60°C	Dimensions	3.7in x 2.7in x 0.71in [95mm [W] x 68mm [D] x 18mm [H]]		
CE/FCC/UL certified) Power 4.5W (Max) Consumption Operation Temperature 32°F ~ 104°F / 0°C ~ 40°C Storage -4°F ~ 140°F / -20°C ~ 60°C Temperature	Weight	0.39 lbs [178g]		
Consumption Operation Temperature 32°F ~ 104°F / 0°C ~ 40°C Storage Temperature -4°F ~ 140°F / -20°C ~ 60°C	Power Supply			
Operation Temperature 32°F ~ 104°F / 0°C ~ 40°C Storage Temperature 32°F ~ 140°F / -20°C ~ 60°C		4.5W (Max)		
Storage -4°F ~ 140°F / -20°C ~ 60°C Temperature				
Temperature	<u>Temperature</u>			
Relative Humidity 20~90% RH (non-condensing)	_	-4°F ~ 140°F / -20°C ~ 60°C		

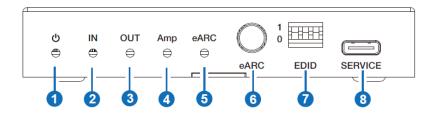


Recommended HDMI Cable			
Video	8K60	4K60	4K30
Resolution			
HDMI Cable	2m/6.6ft ~		
Length	3m/10ft (Ultra	5m/16ft	10m/33ft
(HDMI IN / OUT)	HDMI 2.1)		
The use of "Premium High Speed HDMI" cables is highly recommended.			



Operation Controls and Functions

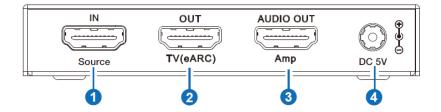
Front Panel



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	Amp LED	•When the AUDIO OUT port connects to an amplifier, the green LED will be on.	
		On: The ARC/eARC function is turned on. CEC communication and	
5	eARC LED	ARC/eARC are working properly. •Flashing: The ARC/eARC function is turned on. CEC communication and ARC/eARC are 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 AUDIO OUT port sink video and audio EDID [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.	



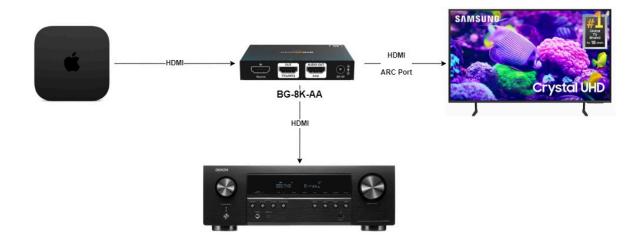
Rear Panel



No.	Name	Function Description
1	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	Amp AUDIO OUT	HDMI audio output port, connected to an amplifier with an HDMI cable.
4	DC 5V	DC 5V/2A 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.



Copyright

All the contents in this manual and its copyright are owned by BZBGEAR. No one is allowed to imitate, copy, or translate this manual without BZBGEAR's permission. This manual contains no guarantee, standpoint expression or other implies in any form. Product specifications and information in this manual are for reference only and are subject to change without notice.

All rights reserved. No reproducing is allowed without acknowledgment.