



## BG-8K-AE

8K HDMI 2.1 EARC AUDIO TO AV RECEIVER/  
SOUNDBAR/AMPLIFIER CONVERTER/ADAPTER WITH  
CEC/EDID SUPPORT

The BG-8K-AE is a high-performance 48Gbps eARC audio adapter engineered to extract audio from an HDMI source or a TV with ARC/eARC functionality and route it to an AV receiver, soundbar, or stereo system. It supports HDMI audio de-embedding to HDMI, digital S/PDIF, or analog L/R outputs, offering seamless audio distribution for modern AV setups.

Fully compliant with HDMI 2.1 and HDCP 2.3, this adapter supports data rates up to 48Gbps, with resolutions up to 8K@60Hz 4:2:0 12-bit and 4K@120Hz 4:4:4 12-bit. It also enables pass-through of advanced HDR formats - including HDR10, HDR10+, Dolby Vision, and HLG—as well as support for VRR, ALLM, QMS, QFT, and SBTM for enhanced video performance.

Designed for effortless integration, the BG-8K-AE includes advanced EDID management, cable equalization, and CEC control, allowing for volume and source control directly from the TV.



## FEATURES



### HDR PASS-THROUGH

Compatible with HDR, HDR10, HDR10+, Dolby Vision, and Hybrid Log-Gamma (HLG) formats



### HIGH-DEFINITION AUDIO

Supports audio pass-through for LPCM 7.1-channel, Dolby TrueHD, Dolby Atmos, DTS-HD Master Audio, and DTS:X formats



### AUDIO DE-EMBEDDING

Extracts audio from HDMI sources and TV eARC/ARC to S/PDIF, stereo L/R analog, and HDMI audio outputs



### EARC/ARC TO SOUNDBAR

De-embeds audio from HDMI sources to eARC/ARC soundbars, including SONOS ARC and Beam, supporting full Dolby Atmos/DTS:X audio



### CEC CONTROL SUPPORT

Enables CEC control from the TV to HDMI source devices



### CEC VOLUME CONTROL

Allows CEC-based volume control from the TV to any connected eARC audio system



# TECH SPECIFICATIONS

## Technical

HDMI Compliance	HDMI 2.1
HDCP Compliance	HDCP 2.3
Video Bandwidth	48Gbps FRL and 18Gbps TMDS/strong
Video Resolution	Up to 8K@60Hz 4:2:0 12bit, 4K@120Hz 4:4:4 12bit
Color Depth	8/10/12-bit
Color Space	RGB, YCbCr_4:4:4, YCbCr_4:2:2, YCbCr_4:2:0
HDR	HDR, HDR10, HDR10+, Dolby Vision, HLG
Audio Formats	<b>HDMI input/output:</b> 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 <b>eARC AUDIO OUT:</b> 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 <b>Amp AUDIO OUT:</b> 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 <b>Audio de-embedding output:</b> <b>Optical:</b> PCM 2.0CH/Dolby/DTS 5.1CH <b>L/R:</b> PCM 2.0CH
ESD Protection	IEC 61000-4-2: ±8kV (Air-gap discharge) & ±4kV (Contact discharge)

## Connection

Input	1 x Source IN [HDMI Type A, 19-pin female]
Output	1 x TV(eARC) OUT [HDMI Type A, 19-pin female] 1 x Soundbar eARC OUT [HDMI Type A, 19-pin female] 1 x Amp AUDIO OUT [HDMI Type A, 19-pin female] 1 x OPTICAL [S/PDIF] 1 x L/R [3.5mm Stereo Mini-jack]
Control	1 x SERVICE [USB Type C, Update port]

## Mechanical

Housing	Metal Enclosure
Color	Black
Dimensions (WxDxH)	5.7in x 2.7in x 0.71in [145mm x 68mm x 18mm]
Weight	0.58 lbs [262g]
Power Supply	Input: AC 100-240V 50/60Hz, Output: DC 5V/2A (US/EU standards, CE/FCC/UL certified)
Power Consumption	5.2W (Max)
Operating 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)

Recommended HDMI Cable	8K60	4K60	4K24	1080P
HDMI Cable Length (HDMI in / out)	3m/10ft (Ultra HDMI 2.1)	8m/26ft	12m/39ft	15m/49ft

The use of "Premium High Speed HDMI" cables is highly recommended.

## Limited Product Warranty Terms

**Pro Line:** 5-year warranty from the date of purchase for AV/Broadcasting products bought on or after August 1, 2024.

**Essential Line:** 3-year warranty from the date of purchase for AV/Broadcasting products bought on or after August 1, 2024.

**Cables:** Lifetime Limited Product Warranty.

For complete warranty information, please visit [bzbgear.com/warranty](https://bzbgear.com/warranty).  
For questions, please call 1.888.499.9906 or email [support@bzbgear.com](mailto:support@bzbgear.com).

Pro Line Products

5-YEAR WARRANTY

Essential Line Products

3-YEAR WARRANTY

Cables Products

LIFETIME WARRANTY