



## BG-4KCHA

USB-C 4K60 VIDEO CAPTURE BOX WITH SCALER,  
HDMI 2.0 LOOP OUT, AUDIO & HDR10 TO SDR  
CONVERSION

The BG-4KCHA is an advanced USB-C 4K video capture device with a scaler, HDMI 2.0 loopout, audio, and HDR10 to SDR conversion, designed for professional HDMI video signal capturing. It uses a USB 3.1 Type-C Gen 1 (USB 3.0) interface, allowing for high-speed transmission. Additionally, the HDMI input and loopout can support up to 4K2K@60, enabling users to connect the BG-4KCHA to a 4K@60 source and capture Ultra HD (4K2K@30) video. With the capability to capture and display uncompressed HDMI video, the BG-4KCHA provides more realistic color renditions.

Moreover, the BG-4KCHA employs large volume image buffer technology to effectively avoid video tearing, while the high sampling rate and accuracy result in captured videos with high sharpness, rich details, and fewer color edges.

Furthermore, the HDR10 to SDR conversion allows Playstation and Xbox players to enjoy 4K2K@60 HDR games on a 4K TV through the loopout HDMI port and record real-time 4K2K@30/1080P@120 video streams with SDR quality through the USB 3.0 port simultaneously.



With its versatility and features, the BG-4KCHA is a highly capable and professional-grade HDMI video capture device for demanding applications.

\* PS5 & Xbox Series X also support 1080P120.

## FEATURES



### 4K UHD

Video resolution up to 4K2K@30/1080P@120 (Video stream over USB-C)\* HDMI input & loopout up to 4K2K@60



### VOLUME CONTROL

Use the volume control knobs to adjust the MIC/Headphone volume



### PLUG AND PLAY

Auto-detection of video format



### SOFTWARE COMPATIBILITY

Compatible with most 3rd party software such as OBS Studio and AMCap



### MIC-IN-MIX

Allows the microphone's audio input to be combined or mixed with the audio that is being transmitted through the HDMI connection



### LOW LATENCY

3~4ms at 1080P



## TECH SPECIFICATIONS

### Technical

Role of usage	Video Capture Device
Input Video bandwidth	600MHz
Output bandwidth	Up to 350Mbps (USB-C)
Video support (USB-C)	Up to 4K2K@30/1080P@120
Video support (Loopout)	Up to 4K2K@60
Audio Input	HDMI Embedded Audio & Stereo audio Input
Audio Format	2CH 16 bit PCM
Recording Video Format	RGB/YUY2/NV12 (USB 3.1 Gen 1), YUY2/NV12 (USB 2.0)
ESD protection	Human body model — ±15kV [air-gap discharge] & ±8kV [contact discharge]
PCB stack-up	4-layer board [impedance control — differential 100Ω; single 50Ω]
Firmware update	Feasible via USB-C Port
Input	1x HDMI + 1x 3.5mm
Output	1x USB-C + 1x HDMI + 1x 3.5mm
HDMI connector	Type A [19-pin female]
USB connector	USB 3.1 Type C (SuperSpeed USB)
Software compatibility (not complete list)	OBS Studio (Windows, Linux, MAC), AMCap (Windows), Potplayer (Windows), VLC (OS X, Linux), XSplit Broadcast (Windows), Skype (Windows, OS X), Zoom (Windows), Hangout (Windows), TeamViewer (Windows)
OS Support	Windows 7 /8.1 /10, Mac and Linux OS



### Industry-Leading Warranty & Support

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. We pride ourselves in our Customer Service and seven-days-a-week Tech Support.

