BZBGEAR®
Amplify Your World™

BG-4K120CHA

USB-C 4K120 VIDEO CAPTURE CARD BOX WITH SCALER/HDMI 2.1 LOOP OUT/AUDIO/HDR10 TO SDR CONVERSION SUPPORT

The BG-4K120CHA is a cutting-edge USB-C 4K120 video capture device with a scaler, HDMI 2.1 loopout, audio, and HDR10 to SDR conversion, designed for professional HDMI video signal capturing. It utilizes a USB 3.1 Type-C Gen 1 (USB 3.0) interface for high-speed transmission. Additionally, the HDMI input and loopout can support up to 4K2K 120Hz, enabling users to connect to a 4K2K 120Hz source and capture Ultra HD (4K2K@30) video. The BG-4K120CHA also captures and displays original uncompressed HDMI video, resulting in more realistic color rendition.

Moreover, the BG-4K120CHA incorporates large volume image buffer technology to effectively avoid video tearing, and the high sampling rate and accuracy ensure images with high sharpness, rich details, and fewer color edges.

Furthermore, with HDR10 to SDR conversion, PS5/Xbox Players can enjoy 4K2K@120 HDR games on a 4K TV while recording real-time 4K2K@30/1080P@120 video streams with SDR quality through USB 3.0 simultaneously.



With its advanced features and high-end capabilities, the BG-4K120CHA is an ideal choice for demanding HDMI video capture applications, offering professional-grade performance and versatility.

* PS5 & Xbox Series X also support 1080P120.

FEATURES

4K@120HZ
HDMI input & output up to 4K2K 120Hz 4:4:4/4:2:2/4:2:0

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	Up to FRL 5 (40G)
Output bandwidth (USB-C)	Up to 5 Gbps (USB-C)
Output bandwidth (HDMI)	Up to FRL 5 (40G)
Video support (USB-C)	Up to 4K2K@30/1080P@120
Video support (HDMI)	Up to 4K2K 120Hz 4:4:4/4:2:2/4:2:0
Audio Input	HDMI Embedded Audio & Stereo audio Input
Audio Support	HDMI output up to 7.1ch, TOSLINK up to 5.1ch, Stereo audio up to 2ch
Recording Mode	Software Compression
Recording Video Format	RGB/YUY2/NV12/P010 (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 + 1x TOSLINK
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 Broadcaster (Windows), Skype (Windows, OS X), Zoom (Windows), Hangout (Windows), TeamViewer (Windows)
OS Support	Windows 7 /8.1 /10/11, Mac and Linux OS



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

Pro Line Products
5-YEAR WARRANTY

Essential Line Products
3-YEAR WARRANTY

Cables Products
LIFETIME WARRANTY

BZBGEAR®
Amplify Your World™

830 National Drive, Suite 140
Sacramento, CA 95834

1.888.499.9906
info@bzbgear.com