

BG-12GCSA

USB-C 12G-SDI VIDEO CAPTURE CARD BOX WITH
SCALER/HDMI 2.0/12G-SDI LOOP OUT AND AUDIO

The BG-12GCSA is a USB-C 12G-SDI video capture device with a scaler, HDMI 2.0/12G-SDI loopout, and audio that provides a professional way to capture SDI video signals. It adopts a USB 3.1 Type-C Gen 1 (USB 3.0) interface, which allows for high-speed data transmission. Additionally, the SDI input and loopout can support up to 4K2K@60.

Users can connect the BG-12GCSA to a 4K2K@60 source and capture Ultra HD (4K2K@30) video. Furthermore, this unit can capture and display original, uncompressed SDI video, with a more realistic color rendition. The BG-12GCSA uses large volume image buffer technology, which effectively avoids video tearing. The high sampling rate and accuracy ensure that the captured videos have a high degree of sharpness, rich details, and fewer color edges.



FEATURES



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 SDI connection



LOW LATENCY

3~4ms at 1080P



AUTO-DETECTION

Auto 12G/6G/3G/HD-SDI detection



TECH SPECIFICATIONS

Technical

Role of usage	Video Capture Device
Input/loopout Video bandwidth	[SDI] 11.88 Gbps, 11.88/1.001 Gbps
Output bandwidth	Up to 5 Gbps (USB-C)
Video support (USB-C)	Up to 4K2K@30/1080P@120
Video support (Loopout)	Up to 4K2K@60
Input Video Support	[12G-SDI] 4K2K @50/59.94/60Hz[6G-SDI] 4K2K @23.98/24, 25, 29.97, 30Hz[3G-SDI] 1080p50/59.94/60Hz[HD-SDI] 720p @50/59.94/60Hz, 1080i @50/59.94/60Hz, 1080p @23.98/24/25/29.97/30Hz
Audio Input	SDI Embedded Audio & Stereo audio Input
Audio Support	HDMI output/ SDI loopout up to 7.1ch, Toslink up to 5.1ch, Stereo audio up to 2ch
Recording Video Format	RGB/YUY2/NV12 (USB 3.1 Gen 1), YUY2/NV12 (USB 2.0)
ESD protection	Human body model — $\pm 15\text{kV}$ [air-gap discharge] & $\pm 8\text{kV}$ [contact discharge]
PCB stack-up	4-layer board [impedance control — differential 100 Ω ; single 50 Ω]
Cable equalization	[12G-SDI] Input up to 30m; Loopout up to 70m[6G-SDI] Input up to 70m; Loopout up to 120m[3G-SDI] Input up to 200m; Loopout up to 200m
Input	1x BNC(SDI) + 1x 3.5mm
Output	1x USB-C + 1x HDMI + 1x BNC(SDI) + 1x 3.5mm + 1x Toslink
HDMI connector	Type A [19-pin female]
USB connector	USB 3.1 Type C (SuperSpeed USB)
Software compatibility(not a 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

