



BG-8KCH

HDMI 2.1 TO USB-C 4K60 VIDEO CAPTURE CARD BOX WITH 8K60 INPUT/LOOP-OUT AND AUDIO MIXING

The BG-8KCH is a professional HDMI 2.1 video capture card designed for high-resolution live streaming, recording, and content creation. Supporting 8K@60Hz and 4K@144Hz HDMI input with loop-through, it captures video at up to 4K@60Hz or 2560x1440@144Hz over a high-speed USB 3.2 Gen 1 connection. With support for UVC/UAC standards and true plug-and-play operation, it integrates seamlessly into professional production, conferencing, and streaming workflows without requiring driver installation.

Built for creators and AV professionals, the BG-8KCH combines low-latency video capture with integrated audio mixing, HDMI loop-through, EDID management, and broad software compatibility. Whether you're live streaming, recording gameplay, producing virtual events, or capturing presentations, the BG-8KCH delivers reliable performance and exceptional image quality across Windows, macOS, and Linux systems.



FEATURES



8K CAPTURE

Accepts HDMI input up to 8K@60Hz and 4K@144Hz with simultaneous HDMI loop-through for local monitoring



HIGH-QUALITY VIDEO

Captures video at up to 4K@60Hz or 2560x1440@144Hz over a high-speed USB 3.2 Gen 1 interface



PLUG-AND-PLAY

UVC/UAC compliant for seamless operation with Windows, macOS, and Linux without requiring software installation



INTEGRATED AUDIO MIXING

Combines HDMI, microphone, and line-level audio while providing analog line-out for flexible audio workflows



SOFTWARE COMPATIBILITY

Works with OBS Studio, Streamlabs, vMix, Zoom, Microsoft Teams, and other UVC-compatible applications



FLEXIBLE EDID MANAGEMENT

Built-in EDID selector supports 8K, 4K, and source-copy modes for optimal display and source compatibility



TECH SPECIFICATIONS

Technical

HDMI Compliance	HDMI 2.1
HDCP Compliance	HDCP 2.3
Video Bandwidth	48 Gbps
USB Bandwidth	5 Gbps
Video Resolution (Input / Loop-Out)	Up to 8K@60Hz, 4K@144Hz
Capture Resolution	Up to 4K@60Hz, 2560x1440@144Hz
Color Space	RGB, YCbCr 4:4:4, 4:2:2, 4:2:0
Color Depth	8 / 10 / 12-bit
HDMI Audio Formats	Up to 8 channels, 32-192 kHz, standard & HD bitstream
USB Audio Formats	2-channel, 44.1 / 48 kHz
HDR Support	HDR, HDR10, HDR10+, Dolby Vision, HLG
Video Capture Formats	YUY2, NV12, I420, MJPEG
ESD Protection	IEC 61000-4-2: ±8 kV (air), ±4 kV (contact)

Connections

HDMI Input	1 x HDMI Type-A (19-pin female)
HDMI Output	1 x HDMI Type-A (19-pin female)
USB Interface	1 x USB-C (USB 3.2 Gen 1)
Microphone Input	1 x 3.5 mm mic input
Line-Level Input	1 x 3.5 mm line-in
Line-Level Output	1 x 3.5 mm line-out

Mechanical

Housing	Aluminum enclosure
Color	Silver
Dimensions (W x D x H)	4.5 x 3.2 x 0.87in [114 x 82 x 22 mm]
Weight	0.4 lb [180 g]
Power Supply	USB powered
Power Consumption	5.8 W (max)
Operating Temperature	32°F to 104°F / 0°C to 40°C
Storage Temperature	-4°F to 140°F / -20°C to 60°C
Operating Humidity	20% - 80% RH (non-condensing)
Storage Humidity	10% - 90% RH (non-condensing)

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.

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3-YEAR WARRANTY
Cables Products
LIFETIME WARRANTY





Supported Resolutions

Format / Category	Supported Resolutions & Frame Rates
HDMI Input (PC / SD / HD / FHD)	640x480p@60Hz, 800x600p@60Hz, 1024x768p@60Hz, 1280x1024p@60Hz, 1360x768p@60Hz, 1440x900p@60Hz, 1440x1050p@60Hz, 1600x1200p@60Hz
SD / Interlaced Video	720x480i@59.94Hz, 720x480p@59.94Hz, 720x576i@50Hz, 720x576p@50Hz
HD Video	1280x720p@50/59.94/60Hz, 1920x1080i@50/59.94/60Hz, 1920x1080p@23.98/24/25/29.97/30/50/59.94/60Hz
4K UHD Video	3840x2160p@23.98/24/25/29.97/30/50/59.94/60/100/120Hz
DCI 4K	4096x2160p@23.98/24/25/29.97/30/50/59.94/60/100/120Hz
Ultra-Wide / Extended Resolutions	5120x2160p@50/60Hz
8K UHD Video	7680x4320p@23.98/24/25/29.97/30/50/60Hz
UVC Capture (NV12 / I420)	3840x2160@30fps and below, 2560x1440@60fps and below, 1920x1080@120fps and below, 1280x720@120fps and below, 720x576@50fps and below, 720x480@60fps and below, 640x480@60fps and below
UVC Capture (YUY2)	2560x1440@60fps and below, 1920x1080@60fps and below, 1280x720@120fps and below, 720x576@50fps and below, 720x480@60fps and below, 640x480@60fps and below
UVC Capture (MJPEG)	3840x2160@60fps and below, 2560x1440@144fps and below, 1920x1080@144fps and below, 1280x720@144fps and below, 720x576@50fps and below, 720x480@60fps and below, 640x480@60fps and below



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