



## **BG-4KHS**

**4K UHD/1080P FHD HDMI to 12G/6G/3G/HD-SDI Converter with HDMI Loop-Out and Audio Embedder**

The BG-4KHS HDMI to SDI converter seamlessly converts an HDMI 2.0 signal to 12G/6G/3G/HD/SD-SDI in real time. The conversion between HDMI 2.0 and SDI is purely digital.

When converting HDMI 2.0 to SDI, there is no loss or weakness of signal quality. Additionally, with up to 8 channels of audio support, 7.1 channel audio and 5.1 channel audio becomes available. With the use of BG-4KHS, users can expand their access to professional SDI compatible equipment!

### **FEATURES**

- Resolutions up to 4K@60Hz
- 4K2K@24/25/30Hz RGB or YCbCr 4:4:4 deep color signal
- 7.1 or 5.1 channel surround
- HDMI loop-out: Loop out to view content locally at device
- Split an HDMI signal from one source to two SDI outputs for long range signal transmission
- Embed audio from a 3.5mm Stereo Mini input
- See signal & power status at a glance w/built in status lights
- Digital conversion of signal ensures lossless transformation for audio and video
- Durable metal enclosure



# Specifications

## Technical

HDMI Compliance	2.0
SDI Formats	SMPTE 2082; 11.88 Gbps / 12G-SDI: 2160p at 50/59.95/60 Hz SMPTE 2081; 5.94 Gbps / 6G-SDI: 2160p at 25/29.97/30 Hz SMPTE 424M; 2.97 Gbps / 3G-SDI: 1080p at 50/59.94/60 Hz (4:2:2) SMPTE 274M; 1.485 Gbps / HD-SDI: 1080p at 23.98/24/25/29.97/30 Hz, 1080i at 50/59.94/60 Hz SMPTE 296M; 1.485 Gbps / HD-SDI: 720p at 23.98/24/25/29.97/30/50/59.94/60 Hz SMPTE 292M; 1.485 Gbps / HD-SDI: 1080i at 30 Hz, 720p at 60 Hz SMPTE 259M; 270 Mbps / SD-SDI: NTSC 525 at 59.94 Hz, PAL 625 at 50 Hz
HDMI Formats	4K UHD Video Standards / 2160p at 23.98/24/25/29.97/30/50/59.94/60 Hz UHD Video Standards / 1080p at 50/59.94/60 Hz (4:2:2) HD Video Standards / 720p at 50/59.94/60 Hz, 1080i at 50/59.94/60 Hz, 1080p at 23.98/24/25/29.97/30 Hz SD Video Standards / NTSC at 59.94 Hz, PAL at 50 Hz
SDI Bitrate	270 Mbps, 1.485 Gbps, 2.97 Gbps, 5.94 Gbps, 11.88 Gbps
Video Sampling	4:2:2
Audio Sampling	48 kHz & 24 bit
Auto Switching	Auto switching between SD / HD / 3G / 6G / 12G-SDI
Cable Reach	12G-SDI up to 60m (200ft) 6G-SDI up to 75m (250ft) 3G-SDI up to 90m (300ft) HD-SDI up to 150m (500ft) SD-SDI up to 300m (1000ft)
Eye-pattern Measurements	Amplitude: within 800mV Raise & Fall time: 45ps Timing jitter: 8 Alignment jitter: 0.3 (100kHz to 1188MHz)
ESD Protection	8 KV - Contact Discharge 15 KV - Air Discharge

## Mechanical

Housing Design	Metal
Casing Style	Wall Mountable
Power Connection	Interlocking Barrel
Power Supply	12V DC, 2A
Power Consumption	10 Watts (Max.)
Operating Humidity	20-90% RH (no condensation)
Operation temperature	32-104°F / 0-40°C
Product Weight	1.07 lb (485g)
Package Weight	2.0 lb (923g)
Certifications	CE, FCC, RoHS

## 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.

<b>Pro AV</b> <b>3</b> Year Warranty	<b>Cameras</b> <b>5</b> Year Warranty	<b>Lifetime</b> Product Support
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