

BG-4KSH

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

The BG-4KSH is a 12G/6G/3G/HD-SDI to HDMI 2.0 converter with audio extraction. The SDI signal is digitally converted into HDMI, guaranteeing lossless conversion for both audio and video. Featuring up to 8 channels of audio, the BG-4KSH is compatible with 7.1 or 5.1 surround sound systems. The 3.5mm analog stereo output, SDI input, SDI loop-out, and HDMI output provides users convenient flexibility. With these robust features, the BG-4KSH can take SDI signals from professional or commercial AV equipment and effortlessly convert it to HDMI without compression for use of popular consumer-grade video interfaces.

**FEATURES**

- Resolutions up to 4K@60Hz
- 7.1 or 5.1 channel surround
- Convert SDI to HDMI—the most popular video interface in the world
- SDI loop-out: Loop out to view content locally at device
- De-embed audio using a 3.5mm Stereo Mini input
- Digital conversion of signal ensures lossless transformation for audio and video
- Convert signal from professional/commercial grade AV equipment to a more common interface
- See signal & power status at a glance w/built in status lights
- 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 292M-1.485 Gbps / HD-SDI: 1080i at 30 Hz, 720p at 60 Hz SMPTE 296M-1.485 Gbps / HD-SDI: 720p at 23.98/24/25/29.97/30/50/59.94/60 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
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 70m (233ft) 6G-SDI up to 100m (330ft) 3G-SDI up to 190m (627ft) HD-SDI up to 250m (825ft)
Eye-pattern Measurements	Amplitude: within 800mV Raise & Fall time: 45ps 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	Micro-USB Port
Power Supply	5V DC, 1A
Power Consumption	2.5 Watts (Max.)
Operating Humidity	20-90% RH (no condensation)
Operation temperature	32-104°F / 0-40°C
Product Weight	0.39 lb (175g)
Package Weight	0.86 lb (390g)
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.

