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

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.
### Technical

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<th>Specification</th>
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### 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 25/59.97/30 Hz
- SMPTE 424M-2.97 Gbps / 3G-SDI: 1080p at 50/59.94/60 Hz (4:2:2)
- SMPTE 274M-1485 Gbps / HD-SDI: 1080p at 23.98/24/25/29.97/30 Hz, 1080i at 50/59.94/60 Hz
- SMPTE 292M-1485 Gbps / HD-SDI: 1080i at 30 Hz, 720p at 60 Hz
- SMPTE 296M-1485 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, 1485 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
- Rise & 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

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### 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.