

# 3G-SDI to USB 3.0 Video Capture with HDMI Loopout

## VIDEO CONVERTERS

**Record or stream an SD/HD/3G-SDI signal in full 1080p HD via USB 3.0 at up to 350 MB/s. Supports UVC & UAC capture.**

- Converts SD/HD/3G-SDI and stereo audio input signals to high quality USB 3.0 output/
  - Automatic input equalization – compensates for attenuation on the incoming signal and automatically equalizes cables for the following distances using 75 Ohm RG6 BNC cables:
    - ◆ 3G-SDI 1920x1080 @60Hz to 328 feet (100 meters).
    - ◆ HD-SDI 1280x720 @60Hz to 656 feet (200 meters).
    - ◆ SD-SDI 525i @60Hz and 625i @50Hz to 984 feet (300 meters).
  - Automatic output reclocking – reshapes and restores timing of digital video signal at output, eliminating high frequency jitter.
- Compliant with UVC and UAC standards.
  - UVC protocol allows the host computer/laptop to set the parameters for the USB stream such as resolution, frame rate, and aspect ratio.
- Supports resolutions to 1920x1080 @60Hz.
- Independent HDMI loop-through allows the original full-quality source to be routed to monitors or other equipment.
  - Fixed resolution: 1920x1080 @60Hz.
- Auto-detects 3G-SDI, HD-SDI, or SD-SDI format.
  - Supports SMPTE 259M-C, SMPTE 292M, SMPTE 424M, SMPTE 425M Level A and B video interfaces used for broadcast-grade video.
- 3.5mm stereo audio input for microphone and output for use with headphones, powered speakers, or connection to an amplifier/receiver.
  - 3.5mm audio output only plays the SDI audio.
  - USB audio stream embeds the microphone audio and plays the SDI audio simultaneously.
- Multiplatform support: Windows 7/8/10/11, Linux, Mac OS 10/11/12.
- Easily stream content online – compatible with most third party software, such as: OBS, Zoom, Teams, Twitch, YouTube, Facebook, Twitter, etc.
- Plug-and-play functionality – no software needed.
  - Once plugged in, the device is identified automatically as a webcam.
- No power supply is necessary – powered from USB port.
- Compact/portable design – perfect for recording in the field or on the go.
- Ideal for live broadcast, online meetings/classes, gaming, houses of worship, and other A/V applications.



**3GSDI-USB3-CPTR-HDO (Front & Back)**

The 3G-SDI to USB 3.0 Video Capture device is used to record or stream an SD/HD/3G-SDI signal via USB 3.0 at up to 350 MB/s. It features an HDMI loop output for local display, as well as separate 3.5mm stereo audio input/output connectors.

- **3G/HD/SD-SDI Input / USB 3.0 Output**
- **HDMI Loop-Through**
- **UVC & UAC Compatible**
- **No Power Supply**
- **Use as a 3G-SDI to HDMI Converter**
- **Compatible with OBS, Zoom, Teams, Twitch, YouTube, Facebook, Twitter, etc.**

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### Specifications

#### Input/Output

- Input connectors:
  - One female BNC connector for SD/HD/3G-SDI
    - ♦ Supports HDTV resolutions up to 1080p @60Hz.
    - ♦ Supports 48kHz SDI audio.
  - One female 3.5mm stereo audio jack.
- Output connectors:
  - One female USB 3.0 connector
    - ♦ Multiplatform support: Windows 7/8/10/11, Linux, Mac OS 10/11/12.
    - ♦ UVC/UAC compliant.
    - ♦ Supports HDTV resolutions up to 1080p @60Hz.
  - One female HDMI connector.
    - ♦ Fixed resolution: 1920x1080 @60Hz.
  - One female 3.5mm stereo audio jack.
- Bandwidth: up to 350Mbps
- Protocols supported: SMPTE 259M-C, SMPTE 292M, SMPTE 424M, SMPTE 425M Level A and B

#### Power

- Powered from attached USB computer.
- Power consumption: 3W (max)
- Operating current: 600mA (max)

#### Dimensions

- WxDxH (in): 2.81x4.45x0.75 in (72x113x19 mm)

#### Environmental

- Operating temperature: 32 to 122°F (0 to 50°C).
- Storage temperature: -4 to 158°F (-20 to 70°C).
- Operating/storage relative humidity: 5 to 90% non-condensing RH

#### Regulatory Approvals

- CE, FCC, RoHS

#### Warranty

- Two years.

#### Cables

- RG6 75 Ohm coaxial cable terminated with BNC connectors is recommended for use. (Not included.)
- 3.48 ft (1.1 m) USB 3.0 Type A male-to-male cable included.
- 4.79 ft (1.5 m) HDMI male-to-male cable included.
  - Supports HDMI cables (HD-xx-MM) up to 50 feet.
- Use DVI-HD-xx-MM cable to connect a DVI display up to 5 meters (not included).
- Use SA-xx-MM male to male 3.5mm stereo audio cables to connect speakers, headphones, microphone up to 50 feet (not included).

### Configuration and Cable Illustration

