

Gefen EXT-3GSDI-2-HDMI1.3 3G-SDI to HDMI1.3 Converter

Convert 3G-SDI to HDMI 1.3 -- with 1080p@60 Hz Resolution, Multi-Channel Audio, Source Monitoring and EDID Capture. The 3G-SDI to HDMI 1.3 Converter takes a 3G-SDI or single link HD-SDI signal and converts it to HDMI 1.3. Output resolutions of up to 1080p60 are supported. The 3G-SDI source is looped through to a dedicated 3G-SDI output and two L+R RCA-type analog audio output jacks for monitoring input audio.

Automatic EDID capture makes for effortless configuration of the HDMI output signal. With this feature enabled, options such as Color Space, Deep Color, and bit depth are automatically set.

SDI

SDI (serial digital interface), used primarily in broadcasting, converts and transmits Standard Definition digital video through SDI (BNC) connectors. HD-SDI and 3G-SDI are high-bandwidth types of SDI that support higher resolutions such as 1080i (HD-SDI) and 1080p60 (3G-SDI). **How it Works** SDI devices are connected to the SDI input and HDMI devices are connected to the HDMI output. When the SDI source, HDMI display and the 3G-SDI to HDMI 1.3 Converter are powered and connected, video signals are converted to the proper format on the HDMI output connector of the Converter. A convenient SDI/HD-SDI/3G-SDI loop-through output connector and two L+R analog RCA audio outputs allow monitoring of SDI/HD-SDI/3G-SDI audio. LED indicators display the input/output color space, sampling, bit depth (input only), and the presence of deep color (output only).

Should troubleshooting be necessary, the 3G-SDI to HDMI 1.3 Converter generates a built-in pre-programmed test pattern which can be invoked at any time without a valid input.

Firmware programs can be upgraded in the field via the Converter's USB connector.

Note:

HDMI 1.3 Features Supported:

- 225 MHz Video Bandwidth
- 8-bit and 10-bit Deep Color
- Up to 8 channels of SDI audio embedded into the HDMI output stream.

3G-SDI Modes Supported:

- SDI Compliant (SMPTE 259M, up to 360 Mb/s)
- HD-SDI Compliant (SMPTE 292M, up to 1.485 Gbps)
- 3G-SDI Compliant (SMPTE 494M/495M, up to 3.0 Gbps)
- 8-bit and 10-bit Support up to 225 MHz
- 1080p@50/59/60 Hz resolutions (Level A & B, SMPTE 425M)
- Level B to A automatic conversion

A bank of DIP switches on the underside of the unit controls all major functions.

Features:

- Max. image output resolution: 1920x1080/60 and 2K (2048x1080)
- Firmware is USB upgradeable
- 8 DIP switches set all technical parameters (format conversion type, color space, HDMI sampling, test pattern, bit depth, etc)
- SDI: Mirrors SDI input onto a reclocked buffered SDI output
- SDI: Monitoring of SDI input source audio on analog L+R RCA connectors
- SDI: Automatic Level-B to Level-A conversion for 1080p/50-60 video formats
- SDI: Automatic detection of all SDI, HD-SDI, and 3G-SDI input formats
- SDI Compliant to SMPTE 292M (HD-SDI), 259M (SDI), 296M, ITU-R BT.656 and ITU-R BT.601
- SDI Compliant to 3G-SDI SMPTE 425-A and 425-B (formats 1080p @ 50/59.94/60 Hz)
- HDMI Color Sampling: 4:2:2 and 4:4:4
- HDMI: Pre-programmed color bar test pattern at 720p/60
- HDMI support for YCbCr, RGB, 4:2:2, 4:4:4, and 8 to 10 bits depth
- HDMI: Auto detects optimal monitor format with EDID
- HDMI: Supports up to four (4) stereo 48-KHz audio streams
- SDI bit depths of 8 and 10 bits on the input

Specifications:

- Input Connector: (1) BNC female SDI/HD-SDI/3G-SDI
- Input Connector: (1) Locking 5V DC power connector
- Input Connector: (1) USB connector (for firmware upgrades)

- Output Connector: (1) BNC female SDI/HD-SDI/3G-SDI (w/buffered input)
- Output Connector: (1) HDMI 1.3 Type A 19-pin Male
- Output Connectors: (2) L+R analog audio jacks (RCA-type)
- Input Video Bandwidth: up to 3.0 Gbps (Single Link 3G-SDI)
- Output Video Bandwidth: 225 MHz (Single Link HDMI 1.3)
- SDI Compliant (SMPTE 259M, up to 360 Mb/s)
- HD-SDI Compliant (SMPTE 292M, up to 1.485 Gbps).
- 3G-SDI Compliant (SMPTE 494M/495M, up to 3.0 Gbps)
- Max. image output resolutions: 2K (2048x1080), 1920x1080/60
- Power Supply: 5V DC locking type, 2.5W consumed each
- Dimensions: 7.5" x 8.2" x 1.1"
- Rack Size: 1U (half-width)
- Operating Temp.: 0-40 degrees C
- HDMI 1.3 Compliant
- Shipping Weight: 4 lbs.

Package Includes:

- (1) 3G-SDI to HDMI 1.3 Converter
- (1) 5V DC Power Supply
- (1) User's Manual