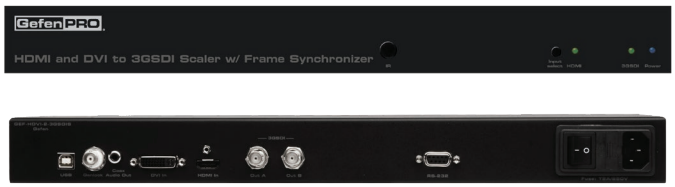
HDMI and DVI to 3G-SDI Scaler with Genlock Frame Synchronizer



GEF-HDVI-2-3GSDIS

Convert from HDMI and DVI to 3GSDI, scale content, and synchronize SDI equipment

The GefenPRO 3GSDI Scaler for HDMI and DVI converts both HDMI and DVI to single-link or dual-link SDI / HD-SDI / 3GSDI formats. Resolutions can be scaled up to 1080p Full HD, 1920 x 1200, and 2K. Genlock frame synchronization and up to eight channels of audio are supported.

This unit provides high-performance scaling plus adaptive video interlacing with edge interpolation, advanced noise reduction, alpha blending, image enhancement, and a fully-integrated menu system. It also supports SDI, ED-SDI, HD-SDI, and 3G-SDI SMPTE formats. The built-in S/PDIF coaxial output can be used to send digital audio to a separate A/V receiver.

The GefenPRO 3GSDI Scaler for HDMI and DVI provides superior 3G-SDI video packaged in a single-rack mount 1U tall unit with an internal power supply.

How It Works

Use the included cables to connect up to two Hi-Def sources, one with an HDMI output and another with a DVI output, to the 3GSDI Scaler. Two HDMI or two DVI sources can also be used by connecting HDMI-to-DVI or DVI-to-HDMI adaptors. Connect coaxial cables from the BNC video output connectors to downstream SDI equipment such as processors and displays. If synchronization between other SDI components is desired, use another coaxial cable to connect an external clock to the Genlock BNC connector. Connect a digital audio cable between the S/PDIF connector on the scaler and an A/V or audio receiver. To control the scaler using RS-232, connect an RS-232 cable between the scaler and the RS-232 automation device such as the Gefen EXT-PACS or GTB-MINI-PACS. Connect the included AC power cord to the scaler and an available electrical outlet. Apply power to the source, the display, any other associated equipment, and the scaler. Use the included IR remote to control the scaling features via the built-in on-screen menu system.

Features*

- Converts HDMI and DVI to all single-link or dual-link SDI formats
- HDMI and DVI inputs switchable via IR, RS-232, and front panel
- Input Resolutions up to 1080p Full HD, 1920 x 1200, and 2K
- 10-bit Deep Color
- LPCM 7.1, Dolby® TrueHD, and DTS-HD® Master Audio™ pass-through
- Frame rate conversion
- Supports black burst (bi-level sync) and tri-level sync Genlock
- Advanced noise reduction and detail enhancement
- Fully integrated sprite based multi-plane OSD menu system
- Pattern generation of color bars and cross-hatch patterns
- Four aspect ratio modes (Full Screen, Panoramic, Letter/Pillar, Extract/Crop)
- Film Mode produces a progressively scanned output image from an interlaced scanned input image
- Serial (RS-232) control for automation
- Field-upgradeable firmware via USB port
- 1U tall and rack-mountable – rack ears included

Specifications*

- Maximum Pixel Clock: 225 MHz
- Video Input Connectors: (1) HDMI Type A 19-pin, female, locking
  (1) DVI 29-pin, female, digital only
- Video Output Connectors: (2) BNC, female
- Output Video Bandwidth: 3.0 Gbps (max.)
- Supported standards:
  - SD-SDI (SMPTE 259M)
  - ED-SDI (SMPTE 344M)
  - HD-SDI (SMPTE 292M)
  - Dual-Link HD-SDI (SMPTE 372M)
  - 3G-SDI (SMPTE 424M/425M-AB)
- Sync Reference Input Connector (Genlock): (1) BNC, female
- Audio Connector: (1) S/PDIF Coaxial (RCA female)
- USB Connector: (1) USB 2.0 Type B, female (for firmware update)
- RS-232 Port: (1) DB-9, female
- HDMI/DVI Input Selector: (1) tact-type
- Power indicator: (1) LED, blue
- 3GSDI indicator: (1) LED, green
- HDMI Input indicator: (1) LED, green
- IR Sensor: (1) on front panel
- Power Switch: (1) rocker-type, on back panel
- Power Supply: 100 - 240V AC, 50/60 Hz (Internal)
- Power Consumption: 20W (max.)
- Dimensions (W x H x D – without rack ears): 17" x 1.73" x 7.7"
  (432 mm x 44mm x 195mm)
- Shipping Weight: 6.5 lbs (3 kg)

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* Features and specifications are subject to change without notice.