

BrightEye 81

3G/HD/SD SDI to HDMI Converter

Convert HD or SD SDI video feeds to HDMI with the BrightEye 81. Convenient for feeding a video monitor, BrightEye 81 provides a reliable way to achieve confidence monitoring in post and broadcast applications.

BrightEye 81 supports standard definition video signals, 3 Gb/s and 1.5 Gb/s high definition signals. The HDMI output is not HDCP encrypted.

BrightEye 81 also functions as a Dual Link to HDMI and 3G SDI converter. When the input is Dual Link 4:4:4, the BrightEye 81 provides two identical SDI outputs that are the 3G Level B version of the input video, and the HDMI output is HD 4:4:4.

Signal monitoring and control is provided through the included BrightEye Mac and PC software.

Features

- **3G, HD and SD SDI to HDMI converter**
- **Use with video monitors that have HDMI input**
- **Dual Link to HDMI converter**
- **Dual Link to 3G SDI converter**
- **Use with HD or SD signals**
- **Passes embedded audio**



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3G/HD/SD SDI to HDMI Converter

Serial Digital Input

Number	One SDI, BNC or Two for Dual Link, BNC
Signal Type	270 Mb/s SD Serial Digital (SMPTE 259M) 1.485 Gb/s HD Serial Digital (SMPTE 274M, 292M or 296M) Dual Link HD SDI (SMPTE 372M) 2.97 Gb/s HD Serial Digital (SMPTE 424M, 425M) Level A
Impedance	75 Ω
Return Loss	>15 dB to 1.485 GHz >10 dB to 2.97 GHz
Max Cable Length	300 meters for 270 Mb/s 100 meters for 1.485 Gb/s 70 meters for 2.97 Gb/s (Belden 1694A)

Automatic Input Cable Equalization

SDI Standards Supported

1080i (SMPTE 274M -4,5,6) 50, 59.94 or 60 Hz
720p (SMPTE 296M -1,2,3) 50, 59.94 or 60 Hz
1080p (SMPTE 274M -9,10,11) 23.98, 24, 25 Hz
1080sF (RP211 -14,15,16) 23.98, 24, 25 Hz
1080p (SMPTE 424M, 425M), 50, 59.94, 60, Level A
Dual Link HD SDI 1080 RGB 4:4:4 (SMPTE 372M)
525i, 625i (SMPTE 259M)

HDMI Output

Number	One
Type	HDMI 1.3
Format	HDMI 1.3

Serial Digital Output

Number	Two, BNC
Signal Type	Follows input When input is Dual Link HD SDI, the SDI outputs are identical 3G Level B SDI signals (SMPTE 425M)
Impedance	75 Ω
Return Loss	>15 dB to 1.485 GHz >10 dB to 2.97 GHz
Output DC	None (AC coupled)

General Specifications

Size	5.63" W x 0.8" H x 5.98" D (143 mm x 21 mm x 152 mm) including connectors and flange
Power	12 volts, 7 watts (100-230 VAC modular power supply)
Temperature Range	0 to 40° C ambient (all specs met)
Relative Humidity	0 to 95° non-condensing
Altitude	0 to 10,000 ft.

