

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 is an SDI to HDMI converter for use with standard definition video signals and 3 Gb/s and 1.5 Gb/s high definition signals. The HDMI output is not HDCP encrypted. The video input is also reclocked and output on a BNC connector.

For facilities using 3G the issue of monitoring the signal becomes a challenge. The BrightEye 81 provides a convenient way to monitor any type of digital video signal. A 3G video signal can be easily viewed via the HDMI output.

BrightEye 81 also functions as a Dual Link to 3 Gb/s converter. When the input is Dual Link RGB 444 the output will be the 3G version of that data.

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



- HD and SD SDI to HDMI Converter
- Dual Link to 3G Converter
- Use with Video Monitors that have HDMI Input
- Use with HD or SD Signals
- 3G HD, Level A and Level B Supported
- Passes Embedded Audio

Serial Digital Input

Number	Two, BNC
Signal Type	270 Mb/s SD Serial Digital (SMPTE 259M) 1.485 Gb/s HD Serial Digital (SMPTE 274M, 292M or 296M) 2.97 Gb/s HD Serial Digital (SMPTE 424M, 425M) Dual Link HD SDI (SMPTE 372M)
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
 3 Gb/s Level A or Level B (SMPTE 424M, 425M)
 Dual Link HD SDI (SMPTE 372M)
 525i, 625i (SMPTE 259M)

Serial Digital Output

Number	One, BNC
Signal Type	Follows input
Impedance	75 Ω
Return Loss	>15 dB to 1.485 GHz >10 dB to 2.97 GHz
Output DC	None (AC coupled)

HDMI Output

Number	One
Type	HDMI 1.3
Format	Follows input

General Specifications

Size	5.625" W x 0.8" H x 5.5" D (143 mm x 20 mm x 140 mm) including connectors
Power	12 volts, 7 watts (100-230 VAC modular power supply not included)
Temperature Range	0 to 40° C ambient
Relative Humidity	0 to 95° non-condensing