

BrightEye 81-F

Optical to HDMI and 3G/HD/SD SDI Electrical Converter

Convert optical HD or SD video feeds to HDMI and electrical with the BrightEye 81-F. Convenient for feeding a video monitor, BrightEye 81-F provides a reliable way to monitor optical feeds in broadcast and mobile applications.

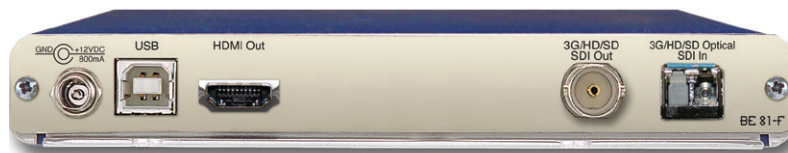
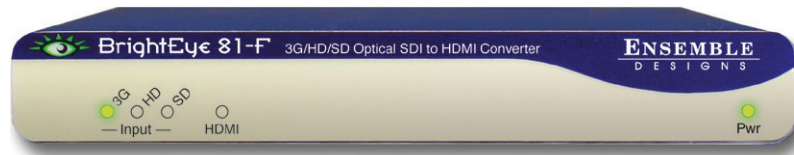
BrightEye 81-F is an optical to HDMI and electrical converter for use with standard definition video signals and 3 Gb/s and 1.5 Gb/s high definition signals. The video input is received on an optical LC connector, converted, and then output on both a BNC connector and an HDMI connector. The HDMI output is not HDCP encrypted.

For facilities using 3G, the issue of monitoring the signal becomes a challenge. A 3G video signal can be easily viewed via the HDMI output.

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

Features

- **Optical to HDMI converter**
- **Optical to electrical converter**
- **Use with video monitors that have HDMI input**
- **Use with HD or SD signals**
- **3G HD, Level A supported**
- **Optical receiver**
- **Passes embedded audio**



Optical to HDMI and 3G/HD/SD SDI Electrical Converter

Optical Input

Number	One, LC/UPC
Type	270 Mb/s (SMPTE 297M, optical equivalent of 259M) 1.485 Gb/s Gb/s HD Serial Digital (SMPTE 274M, 272M or 296M) 2.97 Gb/s HD Serial Digital (SMPTE 424M, 425M), Level A
Wavelength	830 to 1610 nm
Receiver Sensitivity	-18 dBm
Max Cable Length	20 km (For greater distances, or higher power and larger loss budgets, please contact the factory)
Fiber Type	Single Mode Multi-mode compatible with attenuation at transmit end

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
 525i, 625i (SMPTE 259M)

HDMI Output

Number	One
Type	HDMI 1.3
Format	Follows input

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)

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.

