

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 include BrightEye Mac and BrightEye PC software.



- > 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 and Level B Supported
- > Optical Receiver
- > Passes Embedded Audio

Optical Input

Number	One, LC/UPC
Type	270 Mb/s (SMPTE 297M, optical equivalent of 259M) 1.485 Gb/s HD Serial Digital (SMPTE 274M, 272M or 296M) 2.97 Gb/s HD Serial Digital (SMPTE 424M, 425M)
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 8 dB 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
 3 Gb/s Level A or Level B (SMPTE 424M, 425M)
 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