Convert HDMI to HD or SD SDI with the BrightEye 83-F. Convenient for broadcast video cameras and other sources with an HDMI output. BrightEye 83-F presents both electrical and optical serial digital outputs.

The optical output can drive single mode fiber to a distance of 20 kilometers. With an optical launch power attenuator, multi-mode fiber can also be used.

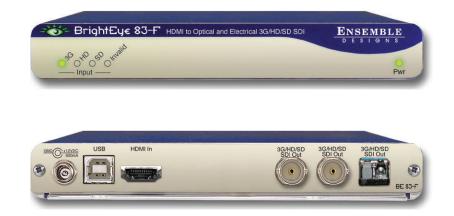
BrightEye 83-F is for use with standard definition video signals and 3 Gb/s and 1.5 Gb/s high definition signals.

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

In compliance with the licensing restrictions on HDCP encrypted material, BrightEye 83-F cannot convert encrypted signals to SDI form.

# Features

- HDMI to optical and electrical converter
- Use with cameras and other sources that have an HDMI output
- Passes embedded audio



### Input

NumberOneTypeHDMI 1.3FormatSupports HDMI signals which map to<br/>the video standards listed below

## **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)

## **Serial Digital Output**

Number	
Signal Type	
Impedance	
Return Loss	
Output DC	

Two, BNC Follows input 75 Ω >15 dB to 1.485 GHz >10 dB to 2.97 GHz None (AC coupled)

## **Optical Output (BE83-F Only)**

Number	One, LC/UPC
Туре	Follows input
Wavelength	1310 nm (non-CWDM)
	Wavelengths 170 nm —1610 nm at 20 nm CWDM spacing available. Call factory for price and specify part number BE83-F-SP.
Power	-7 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
<b>General Specificat</b>	tions
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, 5 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.