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

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

Number	One
Туре	HDMI 1.3

Supports HDMI signals which map to Format

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	Two, BNC
Signal Type	Follows input
Impedance	75 Ω
Return Loss	>15 dB to 1.4

>15 dB to 1.485 GHz

>10 dB to 2.97 GHz

**Output DC** None (AC coupled)

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

One, LC/UPC Number Type 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.

-7 dBm Power

Max Cable Length 20 km (For greater distances,

or higher power and larger loss budgets,

please contact the factory)

Single Mode Fiber Type

> Multi-mode compatible with attenuation at transmit end

### **General Specifications**

5.63"W x 0.8"H x 5.98"D Size (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° Cambient (all specs met) **Relative Humidity** 0 to 95° non-condensing 0 to 10,000 ft.

Altitude