

# BrightEye 48

## 3G/HD/SD/ASI Optical to Electrical Converter

BrightEye 48 is an optical to electrical converter that can be used with standard definition video signals, 3 Gb/s and 1.5 Gb/s high definition signals, or ASI signals. The optical input is converted to electrical form and the resulting serial digital signal is reclocked and delivered to BNC outputs. Providing six electrical outputs, the BrightEye 48 also serves as a distribution amplifier. An input status indicator shows whether a proper optical signal is detected at the converter input.

This is a simple device with no USB port and no interface to BrightEye Mac or PC software. Front panel indicators show the presence of an input signal and power.

### Features

- **Optical receiver**
- **Optical to electrical converter**
- **Use with HD or SD signals**
- **3G HD, Level A and Level B supported**
- **Use with ASI signals**
- **Serves as a distribution amplifier**
- **Passes embedded audio**



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## 3G/HD/SD/ASI Optical to Electrical Converter

### Optical Input

Number	One
Type	SD and ASI (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) Level A, Level B
Wavelength	830 to 1610 nm
Receiver Sensitivity	SD and ASI: -18 dBm HD: -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
Connector	LC/UPC

### Serial Digital Output

Number	Six (Three for ASI)
Signal Type	Follows input
Impedance	75 $\Omega$
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)

### 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
Weight	15 oz 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.

