



BrightEye 47

HD/SD/ASI Optical to Electrical Converter



- ▶ Optical Receiver
- ▶ Optical to Electrical Converter
- ▶ Use with HD or SD Signals
- ▶ Use with ASI Signals
- ▶ Serves as a Distribution Amplifier

BrightEye 47 is an optical to electrical converter that supports HD, SD, and ASI data rates. The optical input is converted to electrical form and the resulting serial digital signal is reclocked and delivered to BNC outputs. Providing four electrical outputs, the BrightEye 47 also serves as a distribution amplifier. An input status indicator shows whether a proper optical signal is detected at the converter input. Combine with a BrightEye 45 for a complete transmission chain.

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

▶ Specifications

Optical Input

Number	One
Type	SD and ASI (SMPTE 297M, optical equivalent of 259M) HD (SMPTE 274M or 296M)
Wavelength	830 to 1550 nm
Receiver Sensitivity	SD and ASI: -18 dBm HD: -18 dBm
Max Cable Length	20 km
Fiber Type	Single Mode Multi-mode compatible with 8 dB attenuation at transmit end
Connector	SC

Serial Digital Output

Number	Four
Signal Type	270Mb/s SD Serial Digital (SMPTE 259M) or 1.485Gb/s HD Serial Digital (SMPTE 274M or 296M)
Impedance	75 Ω
Return Loss	>15dB
Max Cable Length	300 meters for 270 Mb/s 100 meters for 1.485 Gb/s

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)
Temperature Range	0 to 40° C ambient
Relative Humidity	0 to 95° non-condensing