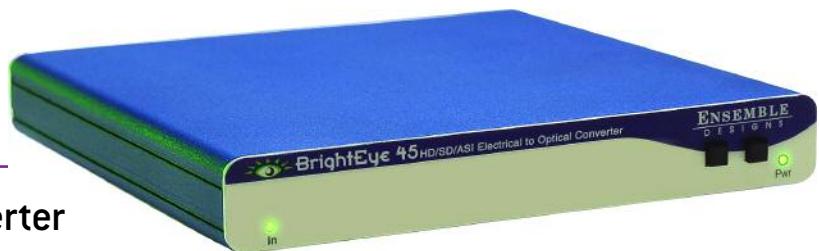


# BrightEye 45

## HD/SD/ASI Electrical to Optical Converter



BrightEye 45 is an electrical to optical converter and distribution amplifier that can be used with high definition, standard definition or ASI signals. The video input is reclocked and presented on four BNCs and is also converted to an optical signal and presented on an optical SC connector. This 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 for longer cable runs.

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.



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

## ► Specifications

### Serial Digital Input

Number	One
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

### Serial Digital Output

Number	Four
Signal Type	HD/SD/ASI Serial Digital (SMPTE 259M or SMPTE 274M or 296M), follows input
Impedance	75 Ω
Return Loss	>15dB
Output DC	None (AC coupled)

### Optical Output

Number	One
Type	SD and ASI (SMPTE 297M, optical equivalent of 259M) HD (SMPTE 274M or 296M)
Wavelength	1310 nm
Power	-7 dBm
Max Cable Length	20 km
Fiber Type	Single Mode Multi-mode compatible with 8 dB attenuation at transmit end
Connector	SC

### 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