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 with BrightEyes.

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.





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

▶ Specifications

Serial Digital Input

Number One

Signal Type 270 Mb/s SD Serial Digital

(SMPTE 259M)

or 1.485 Gb/s HD Serial Digital

(SMPTE 274M or 296M)

 $\begin{array}{ll} \text{Impedance} & 75 \, \Omega \\ \text{Return Loss} & >15 \, \text{dB} \end{array}$

Max Cable Length 300 meters for 270 Mb/s 100 meters for 1.485 Gb/s

Automatic Input Cable Equalization

Serial Digital Output

Number Four

Signal Type HD/SD/ASI Serial Digital

(SMPTE 259M or SMPTE 274M

or 296M), follows input

 $\begin{array}{ll} \text{Impedance} & 75\,\Omega \\ \text{Return Loss} & >15\,\text{dB} \end{array}$

Output DC None (AC coupled)

Optical Output

Number One Type SD and ASI

(SMPTE 297M, optical equivalent

of 259M)

HD (SMPTE 274M, 292M or 296M) 1310 nm (1550 by special order)

Wavelength 1310 nm (1550 by special o 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

Power

Size 5.625" W x 0.8" H x 5.5" D

[143 mm x 20 mm x 140 mm]

including connectors

12 volts, 3 watts (100-230 VAC modular power

supply not included)

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

