BrightEy€ 24

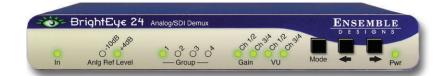
SD SDI to Analog Converter and Disembedder

BrightEye 24 is both a disembedder (demultiplexer) and a digital to analog video converter. The incoming standard definition serial digital video signal is converted to an analog composite output. Audio signals present in the incoming digital video signal are extracted and delivered as four channels of analog audio.

Audio mixing, level adjustments, and channel shuffling are accessed through BrightEye Mac or PC software. Audio group selection is also made through BrightEye Mac or PC software. A variety of audio connectors and adapters are available for integrating BrightEye 24 to any type of system. Use BrightEye 24 in desktop and broadcast applications.

Features

- Use with servers, VTRs and workstations
- Disembedder and converter
- Embedded SDI input
- Analog audio output
- Composite video output







SD SDI to Analog Converter and Disembedder

Video Input

Number One

Signal Type 270 Mb/s SD Serial Digital

(SMPTE 259M)

 $\begin{array}{ll} \text{Impedance} & 75 \, \Omega \\ \text{Return Loss} & >15 \, \text{dB} \\ \text{Max Cable Length} & 300 \, \text{meters} \end{array}$

Automatic Input Cable Equalization

Video Output

Number One

Type NTSC or PAL Composite

Standard follows input

Delay $< 1 \,\mu Sec$ to SDI path

 $\begin{array}{ll} \text{Impedance} & 75 \, \Omega \\ \text{Return Loss} & >40 \, \text{dB} \\ \text{Output DC} & <50 \, \text{mV} \end{array}$

SDI to Analog Performance

Bit Resolution 10 bit output reconstruction

2 x oversampling

Signal to Noise >65 dB

Frequency Response \pm 0.1 dB, 0 to 5.5 MHz

K Factor <1%
Differential Phase <1 degree
Differential Gain <1%

Analog Audio Outputs

Number Four

Type Balanced, transformerless
Delay < 250 µSec to audio I/0

Impedance 30 Ω Maximum Output Level 24 dBu

Resolution 24 bits, 128 x oversampled Reference Level -10 dBu or +4 dBu

Frequency Response ± 0.1 dB, 20 Hz to 20 KHz

Crosstalk <106 dB Dynamic Range >106 dB

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 1 lb

Power 12 volts, 4 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.

