BrightEy€ 74

Optical Disembedder with HD/SD Electrical Out

The BrightEye 74 is an eight channel audio disembedder for 1.5 Gb/s high definition video signals or for 270 Mb/s standard definition signals.

The BrightEye 74 accepts either an HD or SD optical signal. The digital video output is present on a BNC and is either HD SDI or SD SDI, following the input standard. Audio signals present in the incoming video signal are extracted and delivered as standard AES digital audio streams.

The BrightEye 74 includes an eight channel audio mixer with channel swap and shuffle capability that allows you to completely re-arrange and re-mix audio channels. It provides precise control over audio level, with up to 12 dB of gain to compensate for low level sources. All audio processing is performed at full 24 bit resolution by a digital signal processor (DSP). Delay is adjustable up to one second. The data mode allows disembedding of Dolby E or AC-3 signals.

Features

- Optical receiver
- Use with satellite receivers and video servers
- HD/SD audio disembedder
- 8 channel audio mixing
- Adjustable delay
- · Passes embedded audio







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Optical Input

Number One Type SD and ASI

(SMPTE 297M, optical equivalent of 259M)

HD (SMPTE 274M, 292M or 296M)

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 SC

Embedded Inputs

Number Four AES Streams (from optical input)

Eight channels from any two of four groups

Channels Eight

Bit Depth 20 and 24 Bit

HD Standards Supported

1080i (SMPTE 274M -4,5,6) 50, 59.94 or 60 Hz 720p (SMPTE 296M -1,2,3) 50, 59.94 or 60 Hz 1080p (SMPTE 274M -9,10,11) 23.98, 24, 25 Hz 1080sF (RP211 -14,15,16) 23.98, 24, 25 Hz

Serial Digital Output

Number One

Type Follows input

Delay $< 1 \,\mu$ Sec. Audio is adjustable to 1 second

Impedance 75Ω Return Loss >15 dB

Output DC None (AC coupled)

AES/EBU Digital Outputs

Number Four (total of 8 channels)

Type AES3id
Connector Coaxial, 75 Ω
Bit Depth 20 and 24 Bit

Sample Rate 48 KHz, synchronous to video output

Reference Level -18 or -20 dBFS (selectable)

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 watts, 3 watts

Temperature Range 0 to 40° C ambient (all specs met)

Relative Humidity 0 to 95% non-condensing

Altitude 0 to 10,000 ft.

