



- ▶ Disembedder and Converter
- ▶ Embedded SDI Input
- ▶ Analog Audio Output
- ▶ Composite Video Output

# BrightEye 24

## SDI to Analog Converter and Disembedder

BrightEye 24 is both a disembedder (demultiplexer) and a digital to analog video converter. The incoming 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 PC. Audio group selection is also made through BrightEye PC. 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.

## ▶ Specifications

### Video Input

Number	One
Signal Type	Serial Digital [SMPTE 259M]
Impedance	75 Ω BNC
Return Loss	>15 dB
Maximum Cable Length	300 meters

### Video Output

Number	One
Type	NTSC or PAL Composite Standard follows input
Impedance	75 Ω, BNC
Return Loss	>40 dB
Output DC	<50 mV

### SDI to Analog Performance

Bit Resolution	10 bit output reconstruction 2 X oversampling
Signal to Noise	>65 dB
Frequency Response	± 0.1 dB, 0 to 5.5 MHz
K Factors	<1%
Differential Phase	<1 degree
Differential Gain	<1%

### Analog Audio Outputs

Number	Four
Type	Balanced, transformerless
Impedance	30 Ω
Maximum Output Level	24 dBu
Resolution	24 bits, 128x Oversampled
Reference Level	-10 dBu or +4 dBu
Frequency Response	±0.1dB, 20Hz to 20KHz
Crosstalk	<106 dB
Dynamic Range	>106 dB

### 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 provided)
Temperature Range	0 to 40° C ambient
Relative Humidity	0 to 95° noncondensing