

# BrightEye 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



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### Video Input

Number	One
Signal Type	270 Mb/s SD Serial Digital (SMPTE 259M)
Impedance	75 $\Omega$
Return Loss	>15 dB
Max Cable Length	300 meters
Automatic Input Cable Equalization	

### Video Output

Number	One
Type	NTSC or PAL Composite Standard follows input
Delay	< 1 $\mu$ Sec to SDI path
Impedance	75 $\Omega$
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	$\pm$ 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 $\mu$ Sec to audio I/O
Impedance	30 $\Omega$
Maximum Output Level	24 dBu
Resolution	24 bits, 128 x oversampled
Reference Level	-10 dBu or +4 dBu
Frequency Response	$\pm$ 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.

