BrightEy€ 16

SD SDI to Analog Video Converter with Frame Sync/Genlock and Audio Disembedder

BrightEye 16 is a digital to analog video converter with a timeable output. It's perfect for feeding analog switchers and routers, where signal timing is required. It's also a disembedder and provides four analog audio outputs.

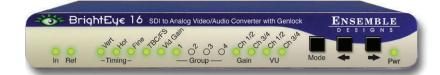
With timing controls, proc adjustments, and a built-in audio mixer, BrightEye 16 provides a complete solution for digital to analog conversion.

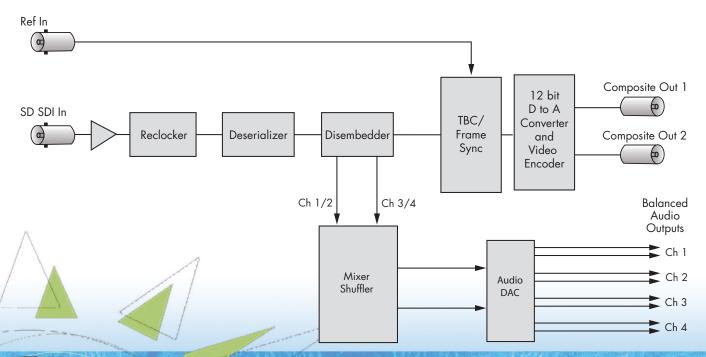
BrightEye 16 has an SDI video input and a reference input. The input signal is converted to analog composite and synchronized (genlocked) to the reference signal. The analog composite output is fully timed with respect to the reference, including ScH phase. Audio is disembedded with 24 bit precision and converted to analog.

Basic controls are accessed on the front panel. BrightEye Mac or PC software provides access to video proc functions and the built-in audio mixer. The vertical interval can be passed or blanked. VU indication is provided on the front panel and through BrightEye Mac or PC software.

Features

- · Feed analog switchers and routers
- SD SDI input
- · Analog video output
- Timing control for output
- Audio disembedding
- Analog audio outputs





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Serial Digital 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

Reference Input

Number One

Type 1 V P-P Composite Video, PAL or NTSC

 $\begin{array}{ll} \text{Impedance} & 75 \, \Omega \\ \text{Return Loss} & > 40 \, \text{dB} \end{array}$

Analog Video Output

Number Two

Type Composite PAL or NTSC (follows input)
Delay Adjustable from < 90 µSec to 1 frame

Return Loss >40 dBOutput DC < 100 mV

SDI to Analog Performance

Bit Resolution 12 bit output reconstruction

8 x oversampling

Signal to Noise >65 dB

Timing Window Infinite (with respect to reference)
Output ScH Phase matches reference

Timing Resolution Adjustable to within 1 degree of subcarrier

Frequency Response ±0.1 dB, 0 to 5.5 MHz

K Factor <1%

ScH Phase Error <±2 degrees
Differential Phase <1 degree
Differential Gain <1%

Analog Audio Outputs

Number Four

Type Balanced, transformerless

 $\begin{array}{ll} \text{Impedance} & 30 \ \Omega \\ \text{Max Output Level} & 24 \ \text{dBu} \end{array}$

Resolution 24 bits, 128 x oversampled Reference Level -10 dBu to +4 dBu Frequency Response \pm 0.1dB, 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, 5 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.



