

BrightEy€ 16

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 PC 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 PC.

► Specifications

Serial Input Number

Signal Type 270Mb/s Serial Digital (SMPTE 259M) Impedance 75 Ω , BNC >15dB Return Loss 300 meters Max Cable Length

Reference Input

Number

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

Impedance 75 Ω , BNC Return Loss >40 dB

Analog Video Output

Number

http://www.regulus-inc.cojp

Composite PAL or NTSC (follows input) Type

Return Loss Output DC < 100 mV







Feed Analog Switchers and Routers

SDI Input

Analog Video Output

Timing Control for Output

Audio Disembedding

Analog Audio Outputs

SDI to Analog Performance

Bit Resolution

Signal to Noise **Timing Window** Output

Timing Resolution

Freq Response

K Factors ScH Phase Error

Differential Phase Differential Gain

Analog Audio Outputs

Number Type Impedance Max Output Level Resolution Reference Level Frea Response Crosstalk

Dynamic Range

General Specifications

Power

5.625" W x 0.8 " H x 5.5" D [143 mm x 20 mm x 140 mm] including connectors

12 bit output reconstruction

Infinite (with respect to Reference)

ScH Phase matches Reference

Adjustable to within 1 degree

 ± 0.1 dB, 0 to 5.5 MHz

Balanced, transformerless

24 bits, 128x Oversampled

 \pm 0.1dB, 20Hz to 20KHz

-10 dBu to +4 dBu

8 X oversampling

of Subcarrier

< ±2 degrees

<1 degree

<1%

<1%

Four

 30Ω

24 dBu

< 102 dB

> 106 dB

12 volts, 7 watts (100-230 VAC modular power

supply provided) 0 to 40° C ambient 0 to 95° noncondensing

Temperature Range Relative Humidity