# BrightEy€ 25

# Analog Video/Audio to SD SDI Converter with TBC and Embedder

BrightEye 25 converts analog composite video to SD SDI, with simultaneous conversion of four channels of audio and embedding. A TBC/frame sync is a standard feature and allows this BrightEye to work with any sort of video input. Great for broadcast and desktop applications, BrightEye 25 can be used with sources such as VTRs and incoming satellite feeds.

The analog input is converted at 12 bits of resolution and digitally decoded to 10 bit YCrCb components. The signal is then time base corrected and frame synchronized to the reference input. The audio is converted to digital and then it passes through the built-in four channel mixer with shuffle and level control. The video and audio signals join up in an embedder which can be targeted to any of the four groups.

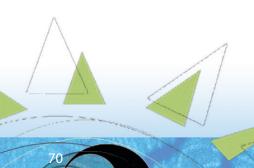
Basic controls are accessed on the front panel. BrightEye Mac or PC software provides access to video proc functions and the built-in audio mixer. The vertical interval can be passed or blanked. VU indication is provided on the front panel and through BrightEye Mac or PC software.

#### **Features**

- Convert analog sources to embedded SDI
- · Analog audio and video inputs
- Embedded SDI output
- TBC and frame sync
- 12 and 24 bit processing
- For fiber optic output, choose BrightEye 26









## Analog Video/Audio to SD SDI Converter with TBC and Embedder

### **Analog Video Input**

Number One

Type NTSC, PAL Composite

Impedance 75  $\Omega$ 

Return Loss >40 dB, DC to 5.5 MHz Input DC +/-1 volt DC Input Hum <100 mV

#### **Reference Input**

Number One

Type 1 V P-P Composite Video,

PAL or NTSC

Impedance  $75 \Omega$ Return Loss >40 dB

### **Serial Digital Output**

Number Two

Type 270 Mb/s SD Serial Digital

SMPTE 259M

Delay Adjustable from  $< 90 \mu Sec to 1 frame$ 

Impedance 75  $\Omega$ Return Loss >15 dB

Output DC None (AC coupled)

#### **Analog Video to SDI Performance**

Bit Resolution 12 bit input quantization,

4 x oversampling

Decoding Adaptive Comb Filter, 3 or 5 line selectable

Signal to Noise >62 dB, weighted Frequency Response ±0.1 dB, 0 to 5.5 MHz

#### **Analog Audio Inputs**

NumberFourTypeBalancedImpedance>15K ΩMaximum Input Level24 dBu

CMRR >60 dB, 20 Hz to 10 KHz
Quantization 24 bits, 128 x oversampled

Sample Rate 48 KHz

Reference Level -10 dBu or +4 dBu Frequency Response ±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, 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.

