# BrightEy€ 3

## **Analog to SD SDI Converter with TBC and Frame Sync**

BrightEye 3 is an agile time base corrector and frame synchronizer with composite, component and Y/C inputs and SD SDI video out. Input signals are digitized to 12 bits of resolution and time base corrected by a noise tolerant tracking circuit. An external reference input allows genlock to a timing reference such as color black.

Input selection, gain control, and TBC enable is provided through the front panel interface. Video levels can be adjusted through BrightEye Mac or PC software.

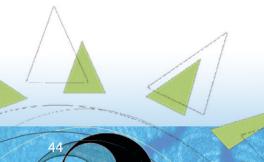
Input and reference presence are indicated through front panel LEDs. BrightEye 3 is great for capturing consumer VCRs and DVD players into non-linear editing systems.

#### **Features**

- Use with cameras, satellite receivers and VHS decks
- Analog input
- SD SDI output
- TBC and frame sync
- 12 bit processing









## **Analog to SD SDI Converter with TBC and Frame Sync**

## **Analog Input**

Number One

Type Beta/SMPTE, Y, Pr, Pb

NTSC, PAL Composite

NTSC, PAL S-Video

Impedance75 ΩReturn Loss>40 dBInput DC+/-1 volt DCInput Hum<100 mV</td>

## **Serial Digital Output**

Number One

Type 270 Mb/s SD Serial Digital

(SMPTE 259M)

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

 $\begin{array}{ll} \text{Impedance} & 75 \, \Omega \\ \text{Return Loss} & >15 \, \text{dB} \end{array}$ 

Output DC None (AC coupled)

## **Analog to SDI Performance**

Bit Resolution 12 bit input quantization

4 x oversampling

Signal to Noise >62 dB, weighted

Frequency Response

Composite and Y  $\pm 0.1$  dB, 0 to 5.5 MHz Pr, Pb  $\pm 0.1$  dB, 0 to 2.75 MHz

Delay Adjustable from < 90 μSec to 1 frame

#### **Reference Input**

Number One

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

Impedance  $75 \Omega$ Return Loss >40 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 14 oz

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.

