



# BrightEye 2

## Analog to SDI Converter



- ▶ Composite and S-Video Input
- ▶ Component Input
- ▶ SDI Output
- ▶ 12 Bit

BrightEye 2 provides uncompromised analog to digital video conversion of component and composite video. Analog inputs are digitized at 12 bits of resolution with 4x oversampling. Composite video is processed through an adaptive comb filter decoder. PAL / NTSC input detection is automatic.

Input selection and gain adjustment is made from the front panel. A status display provides an input presence indication. Video levels can be adjusted through BrightEye PC.

Supporting both Beta and SMPTE component, composite, and Y/C formats, BrightEye 2 adapts to many conversion needs.

Use BrightEye 2 to digitize analog VTRs and cameras.

### ▶ Specifications

#### Analog Input

Type	Beta/SMPTE, Y, Pr, Pb NTSC, PAL Composite NTSC, PAL S-Video
Impedance	75 Ω, BNC
Return Loss	>40 dB
Input DC	+/-1 volt DC
Input Hum	<100 mV

#### Serial Digital Output

Type	SMPTE 259M
Impedance	75 Ω BNC
Return Loss	>15 dB
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	±0.1 dB, 0 to 5.5 MHz
Pr, Pb	±0.1 dB, 0 to 2.75 MHz
Minimum Delay	90 μSec

#### General Specifications

Size	5.625" W x 0.8" H x 5.5" D (143 mm x 20 mm x 140 mm) including connectors
Power	12 volts, 7 watts (100-230 VAC modular power supply provided)
Temperature Range	0 to 40° C ambient
Relative Humidity	0 to 95° noncondensing