BrightEye 2

Analog to SD SDI Converter

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 Mac or PC software.

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.

- Use with VTRs and Cameras
- Composite and S-Video Input
- Component Input
- SD SDI Output
- 12 Bit

Specifications

Analog Input

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

Serial Digital Output

Number	One
Type	270 Mb/s SD Serial Digital (SMPTE 259M)
Impedance	75 Ω
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, 5 watts (100-230 VAC modular power supply not included)
Temperature Range	0 to 40° C ambient
Relative Humidity	0 to 95%, non-condensing