

BrightEye 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
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)
Delay	Adjustable from < 90 μ Sec to 1 frame
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 \pm 0.1 dB, 0 to 5.5 MHz Pr, Pb \pm 0.1 dB, 0 to 2.75 MHz
Delay	Adjustable from < 90 μ Sec to 1 frame

Reference Input

Number	One
Type	1 V P-P Composite Video, PAL or NTSC
Impedance	75 Ω
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.

