



BrightEye 15

SDI to Analog Converter with Frame Sync/Genlock

BrightEye 15 is a digital to analog video converter with a timeable output. It's perfect for feeding analog switchers and routers, where signal timing is required.

BrightEye 15 has an SDI video input and a reference input. The input signal is converted to analog composite and synchronized (genlocked) to the reference signal. The analog composite output is fully timed with respect to the reference, including ScH phase.

Basic controls are provided on the front panel. With BrightEye PC, you can control video proc functions; Gain, Chroma, Pedestal, and Hue. The vertical interval can be passed or blanked.

- ▶ Feed Analog Switchers and Routers
- ▶ SDI Output
- ▶ Analog Video Output
- ▶ Timing Control for Output

► Specifications

Serial Input

Number	One
Signal Type	270Mb/s Serial Digital (SMPTE 259M)
Impedance	75 Ω, BNC
Return Loss	>15dB
Max Cable Length	300 meters

Reference Input

Number	One
Type	1 V p-p Composite Video, PAL or NTSC
Impedance	75 Ω, BNC
Return Loss	>40 dB

Analog Video Output

Number	Two
Type	Composite PAL or NTSC (follows input)
Return Loss	>40 dB
Output	DC < 100 mV

SDI to Analog Performance

Bit Resolution	12 bit output reconstruction 8 X oversampling
Signal to Noise	>65 dB
Timing Window	Infinite (with respect to Reference)
Output	ScH Phase matches Reference
Timing Resolution	Adjustable to within 1 degree of Subcarrier
Freq Response	±0.1 dB, 0 to 5.5 MHz
K Factors	<1%
ScH Phase Error	< ± 2 degrees
Differential Phase	<1 degree
Differential Gain	<1%

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