



# BrightEye 11-HD

## HD/SD SDI to Analog Converter

- ▶ Use with HD or SD Monitors, VTRs and Projectors
- ▶ SDI Input
- ▶ Analog Composite Output
- ▶ Component, S-Video Output
- ▶ 12 Bit

BrightEye 11-D provides HD or SD digital to analog video conversion with the full range of analog output formats available for HD and SD. When an HD input is present HD RGB or YPrPb are output. When an SD input is present Beta, SMPTE, RGB or composite with simultaneous Y/C is output.

12 bit processing and conversion at 8x oversampling mean the best looking images possible.

Output format and gain are controlled from the front panel. A status display indicates input presence. Video levels can be adjusted through BrightEye Mac or PC software.

## ▶ Specifications

### Serial Digital Input

Number	One
Type	HD Serial Digital 1.485 Gb/s SMPTE 274M or 296M or SD Serial Digital 270Mb/s SMPTE 259M-C
Impedance	75 Ω
Return Loss	>15 dB
Max Cable Length	100 Meters for HD 300 Meters for SD (Belden 1694A or equiv.)

### HD Standards Supported:

1080i (SMPTE 274M -4,5,6)	50, 59.94 or 60 Hz
720p (SMPTE 296M -1,2,3)	59.94 or 60 Hz
1080p (SMPTE 274M -9,10,11)	23.98, 24, 25 Hz
1080sF (RP211 -14,15,16)	23.98, 24, 25Hz

### Analog Output

HD input yields HD analog out,  
SD input yields SD analog out

Number	One component or one composite and one Y/C
Type	Beta/SMPTE, Y, Pr, Pb RGB NTSC, PAL Composite NTSC, PAL S-Video
Return Loss	>40 dB
Output DC	None (AC coupled)

### Serial Digital Output

Type	SMPTE 259M
Impedance	75 Ω
Return Loss	>15 dB
Output DC	<50 mV

### SDI to Analog Performance

Bit Resolution	12 bit output reconstruction 8 X oversampling
Signal to Noise	>65 dB
Frequency Response	±0.1 dB, 0 to 5.5 MHz
K Factor	<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)
Temperature Range	0 to 40° C ambient
Relative Humidity	0 to 95° non-condensing