

# BrightEye 11-HD

## HD/SD SDI to Analog Converter

BrightEye 11-HD 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 8 x 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.

### Features

- Use with HD or SD monitors, VTRs and projectors
- HD or SD SDI input
- Analog composite output
- Component, S-Video output
- 12 bit processing
- Passes embedded audio



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## HD/SD SDI to Analog Converter

### Serial Digital Input

Number	One
Type	HD Serial Digital 1.485 Gb/s SMPTE 274M, 292M or 296M or SD Serial Digital 270 Mb/s SMPTE 259M
Impedance	75 $\Omega$
Return Loss	>15 dB
Max Cable Length	100 meters for HD 300 meters for SD (Belden 1694A)

Automatic Input Cable Equalization

HD Standards Supported:

1080i (SMPTE 274M -4,5,6) 50, 59.94 or 60 Hz

720p (SMPTE 296M -1,2,3) 50, 59.94 or 60 Hz

1080p (SMPTE 274M -9,10,11) 23.98, 24, 25 Hz

1080sF (RP211 -14,15,16) 23.98, 24, 25 Hz

### 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

Number	One
Type	Follows input
Impedance	75 $\Omega$
Return Loss	>15 dB
Max Cable Length	100 meters for HD 300 meters for SD (Belden 1694A)

### SDI to Analog Performance

Bit Resolution	12 bit output reconstruction 8 x oversampling
Signal to Noise	>65 dB
Frequency Response	$\pm 0.1$ dB, 0 to 5.5 MHz
K Factor	<1%
ScH Phase Error	< $\pm 2$ degrees
Differential Phase	<1 degree
Differential Gain	<1%

### 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	1 lb 12 oz
Power	12 volts, 7 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.

