

BrightEye 93

HD Cross Converter

BrightEye 93 converts between various HD standards, whether 720p or 1080i. Simply select the output standard you need and connect the input – that's all there is to it. A special Mirror Flip Output mode can be enabled, causing the output image to be flipped left to right for use with on-camera talent. An external reference input allows genlock to a house reference.

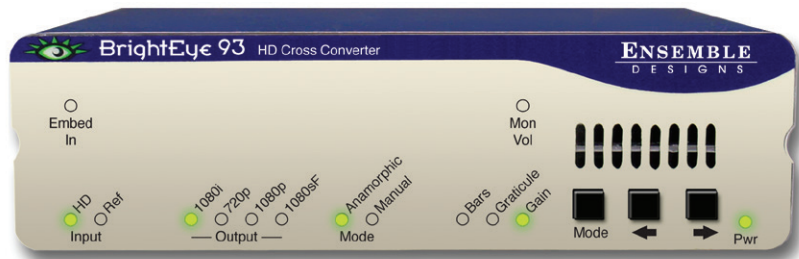
All vertical interval data and closed captioning is faithfully passed. Sixteen channels of embedded audio are supported. If the incoming video has embedded audio, the audio will be safely bypassed around the video processing and lipsync will be preserved.

An external reference input allows genlock to a house reference. All vertical interval data and closed captioning are faithfully passed.

Input selection, gain control, and test pattern controls are provided through the front panel interface. Audio presence LEDs indicate which channels are detected.

Features

- **Convert between HD standards**
- **Timeable output**
- **Analog audio monitor output**
- **Mirror output mode for on-camera talent**
- **Graticule and Safe Title generator**
- **HD SDI and HDMI outputs**
- **Frame sync**
- **12 and 16 bit processing**
- **Passes embedded audio**



Serial Digital Input

Number	One
Signal Type	1.485 Gb/s HD Serial Digital (SMPTE 274M, 292M or 296M)
Impedance	75 Ω
Return Loss	>15 dB
Max Cable Length	100 meters for 1.485 Gb/s
Automatic Input Cable Equalization	

Reference Input

Number	One
Type	1 V P-P Composite Video, PAL or NTSC or Tri-Level Sync
Impedance	75 Ω
Return Loss	>40 dB

Serial Digital Output

Number	Two
Type	HD Serial Digital 1.485 Gb/s SMPTE 274M or 296M
Delay	Adjustable from 1 field to 1 frame
Processing	12 and 16 bit
Impedance	75 Ω
Return Loss	>15 dB
Max Cable Length	100 meters for HD (Belden 1694A)

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

HDMI Output

Number	One
Connector	HDMI
Type	Follows SDI out

Audio Monitoring Output

Number	One (select from sixteen channels)
Connector	3.5 mm stereo mini jack

General Specifications

Size	5.63" W x 1.65" H x 5.98" D (143 mm x 42 mm x 152 mm) including connectors and flange
Weight	1 lb 7 oz
Power	12 volts, 11 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.

