

# BrightEye 93

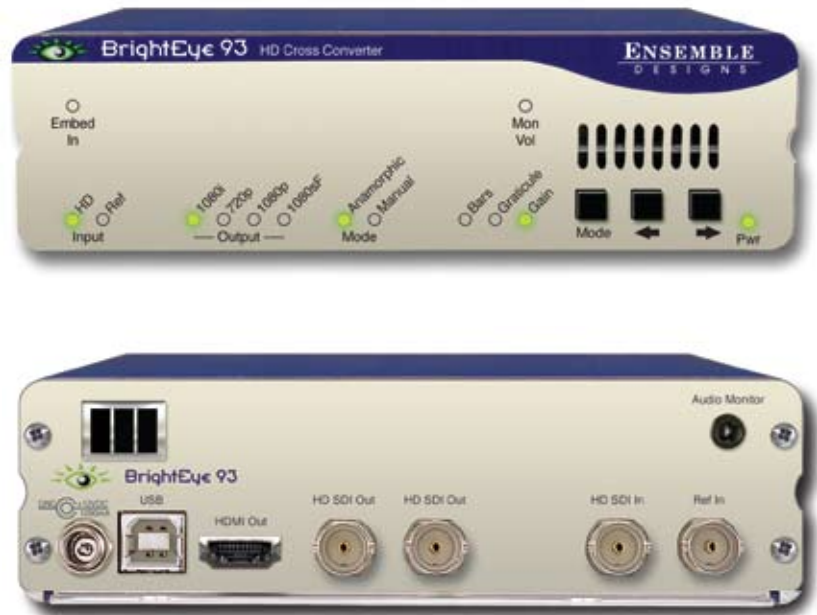
## HD Cross Converter

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 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.



- ▶ Convert between HD standards
- ▶ Timeable Output
- ▶ Analog Audio Monitor Output
- ▶ Mirror Output Mode for On-Camera Talent
- ▶ Graticule and Safe Title Generator
- ▶ HDMI Output
- ▶ Frame Sync
- ▶ 12 and 16 bit processing
- ▶ Passes Embedded Audio

## ► Specifications

### Serial Digital Input

|                  |   |
|------------------|---|
| Number           | One   |
| Signal Type      | 1.485 Gb/s HD Serial Digital (SMPTE 274M, 292M or 296M) |
| Impedance        | 75 $\Omega$   |
| Return Loss      | >15 dB  |
| Max Cable Length | 100 meters for 1.485 Gb/s                               |

### Reference Input

|             |   |
|-------------|---|
| Number      | One   |
| Type        | 1 V P-P Composite Video PAL or NTSC or Tri-Level Sync |
| Impedance   | 75 $\Omega$   |
| Return Loss | >40 dB  |

### Serial Digital Output

|                  |   |
|------------------|---|
| Number           | Two   |
| Type             | HD Serial Digital 1.485 Gb/s SMPTE 274M or 296M-C |
| Processing       | 12 and 16 bit                                     |
| Impedance        | 75 $\Omega$                                       |
| Return Loss      | >15 dB  |
| Max Cable Length | 100 meters for HD (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

### Monitor Output

|           |                 |
|-----------|-----------------|
| Number    | One             |
| Connector | HDMI            |
| Type      | Follows SDI out |

### Audio Monitoring Output

|           |                                  |
|-----------|----------------------------------|
| Number    | One (select from eight channels) |
| Connector | 3.5 mm stereo mini jack          |

### General Specifications

|                   |   |
|-------------------|---|
| Size              | 5.625" W x 1.7" H x 5.5" D (143 mm x 40 mm x 140 mm) including connectors |
| Power             | 12 volts, 11 watts (100-230 VAC modular power supply not included)        |
| Temperature Range | 0 to 40° C ambient  |
| Relative Humidity | 0 to 95%, non-condensing  |

