

# BrightEye 92-M

## HD Downconverter

BrightEye 92-M will downconvert any type of HD signal and provides HDMI, SD SDI and analog composite outputs that are suitable for broadcast or monitoring. 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. The built-in frame synchronizer allows you to feed asynchronous signals to the BrightEye 92-M. An external reference input allows genlock to a house reference.

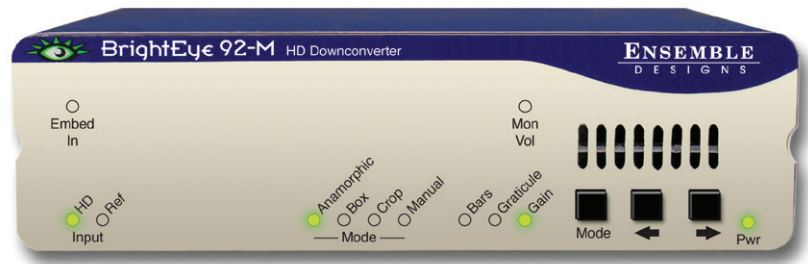
All vertical interval data and closed captioning is faithfully passed. Sixteen channels of embedded audio are supported. If the incoming video has embedded audio, the audio will be safely bypassed around the video processing and lipsync will be preserved.

Audio monitoring is easy with BrightEye 92-M's convenient 3.5 mm mini jack. Just select the audio channels you want to monitor from the front panel and plug in a headset.

Input selection, gain control, and test pattern controls are provided through the front panel interface. Audio presence LEDs indicate which channels are detected. Controls for crop, letterbox and pillarbox are accessed from the front panel or BrightEye Mac or PC software.

### Features

- Downconversion for monitoring or broadcast
- SD SDI, HDMI, analog composite video outputs
- Analog audio monitor output
- Mirror output mode for on-camera talent
- Graticule and Safe Title generator
- Frame sync
- 12 and 16 bit processing
- Passes embedded audio



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### 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
Automatic Input Cable Equalization	

### 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

### Analog Video Output

Number	One
Type	Composite PAL or NTSC
Delay	Adjustable from 1 field to 1 frame
Return Loss	>40 dB
Output	DC < 100 mV

### Serial Digital Output

Number	Two
Type	SD Serial Digital 270 Mb/s SMPTE 259M
Delay	Adjustable from 1 field to 1 frame
Processing	12 and 16 bit
Impedance	75 $\Omega$
Return Loss	>15 dB
Max Cable Length	300 meters

### 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, 10 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.

