BrightEye 92-A

HD Downconverter with Analog Audio

Easy To Use

BrightEye 92-A will downconvert any type of HD signal and provides both an SD SDI output and an analog composite output that are suitable for broadcast or monitoring. The built-in Frame Synchronizer allows you to feed asynchronous signals to the BrightEye 92-A. 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.

Downconverting to Standard Definition

BrightEye 92-A will downconvert any type of HD signal and provides both an SD SDI and an analog composite output suitable for broadcast or monitoring.

Audio Processing

BrightEye 92-A handles both embedded audio and analog audio. Sixteen channels of embedded audio are supported in BrightEye 92-A. If the incoming video has embedded audio, the audio will be safely bypassed around the video processing and lipsync will be preserved. Audio mixing is available for two of the four embedded groups of audio.

Audio Monitoring

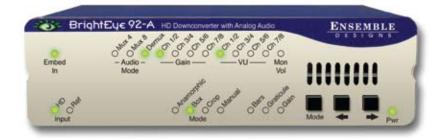
Audio monitoring is easy with BrightEye 92-A's convenient 3.5 mm mini jack. Select the audio channels you want to monitor from the front panel and plug in a headset.

Monitoring with HDMI

The HDMI connector on the rear of the unit provides a future proof monitoring interface. Plug it into most LCD monitors for confidence monitoring of your feed.

Front Panel and Software Control

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. Video and audio levels and the audio mixer can be adjusted through BrightEye Mac or PC software.





- ▶ Downconversion for monitoring or broadcast
- ▶ SD Digital and Analog Composite Video Outputs
- ▶ Analog Audio Inputs and Outputs
- ▶ Analog Audio Monitor Output
- Mirror Output Mode for On-Camera Talent
- ▶ Graticule and Safe Title Generator
- ▶ HDMI Output for Monitoring
- ▶ Frame Sync
- ▶ 12 and 16 bit processing
- ▶ Passes Embedded Audio

▶ Specifications

Serial Digital Input

Number 0ne

1.485 Gb/s HD Serial Digital Signal Type (SMPTE 274M, 292M or 296M)

75 Ω

Impedance Return Loss >15dB

100 meters for 1.485 Gb/s Max Cable Length

Reference Input

Number One

1 V P-P Composite Video Type

PAL or NTSC or Tri-Level Sync

Impedance 75 Ω

Return Loss >40 dB

Analog Video Output

Number

Composite PAL or NTSC Type

>40 dB Return Loss Output DC < 100 mV

Serial Digital Output

Number Two

Type SD Serial Digital

270 Mb/s SMPTE 259M-C

Processing 12 and 16 bit

Impedance 75 Ω >15 dB Return Loss Max Cable Length 300 meters

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 Audio Inputs

Number

(selectable as inputs or outputs)

Balanced Type >15K Ω Impedance Max Input Level 24 dBu

CMRR >60 dB, 20 Hz to 10 KHz Quantization 24 bits, 128 x oversampled

Sample Rate 48 KHz

Reference Level -10 dBu or +4 dBu Frequency Response ±0.1 dB. 20 Hz to 20 KHz

Crosstalk <106 dB Dynamic Range >106 dB **Analog Audio Outputs**

Number

(selectable as inputs or outputs)

Balanced, transformerless Type

Impedance 30Ω Maximum Output Level 24 dBu

24 bits, 128 x oversampled Resolution -10 dBu or +4 dBu

Reference Level \pm 0.1 dB, 20 Hz to 20 KHz Frequency Response

<106 dB Crosstalk **Dynamic Range** >106 dB

Embedded Output (In Serial Output)

Two of four groups **Group Assign** Channels Sixteen passed

Bit Depth 24 Bit

Monitor Output

Number 0ne **HDMI** Connector

Type Follows SDI out

Audio Monitoring Output

Number One

(select from eight channels)

Connector 3.5 mm stereo mini jack

General Specifications

5.625" W x 1.7" H x 5.5" D Size

[143 mm x 40 mm x 140 mm] including connectors

12 volts, 12 watts Power

(100-230 VAC modular power

supply not included) 0 to 40°C ambient

Temperature Range Relative Humidity 0 to 95%, non-condensing

