BrightEye 92-A

HD Downconverter with Analog Audio

Easy To Use

BrightEye 92-A will downconvert any type of HD signal and provides HDMI, SD SDI and analog composite outputs 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 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.

Downconverting to Standard Definition

BrightEye 92-A will downconvert any type of HD signal and provides HDMI, SD SDI and an analog composite outputs that are all extremely high quality, suitable for any part of your signal chain.

Audio Processing

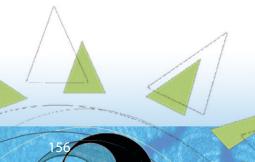
BrightEye 92-A handles both embedded audio and analog audio. Sixteen channels of embedded audio are supported in BrightEye 92-A. If the incoming video has embedded audio, the audio will be safely bypassed around the video processing and lipsync will be preserved. Audio mixing is available for two of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

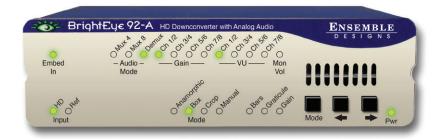
Front Panel and Software Control

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.





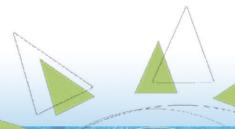
HD Downconverter with Analog Audio





Features

- Downconversion for monitoring or broadcast
- SD SDI, HDMI, 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
- Frame sync
- 12 and 16 bit processing
- Passes embedded audio



BrightEy€ 92-A

HD Downconverter with Analog Audio

Serial Digital Input

Number One

Signal Type 1.485 Gb/s HD Serial Digital

(SMPTE 274M, 292M or 296M)

Impedance 75Ω 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 75Ω 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

 $\begin{array}{ll} \text{Impedance} & 75 \, \Omega \\ \text{Return Loss} & >15 \, \text{dB} \\ \text{Max Cable Length} & 300 \, \text{meters} \end{array}$

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 Eight (selectable as inputs or outputs)

Type Balanced
Impedance >15 K Ω
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 Eight (selectable as inputs or outputs)

Type Balanced, transformerless

 $\begin{array}{ll} \text{Impedance} & 30 \, \Omega \\ \text{Maximum Output Level} & 24 \, \text{dBu} \end{array}$

Resolution 24 bits, 128 x oversampled Reference Level $-10 \, \mathrm{dBu} \, \mathrm{or} + 4 \, \mathrm{dBu}$ Frequency Response $\pm \, 0.1 \, \mathrm{dB}$, 20 Hz to 20 KHz

Crosstalk <106 dB Dynamic Range >106 dB

Embedded Output (In Serial Output)

Group Assign Two of four groups
Channels Sixteen passed
Bit Depth 24 Bit

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

Relative Humidity

Size 5.63"W x 1.65"H x 5.98"D

(143 mm x 42 mm x 152 mm)

0 to 95%, non-condensing

including connectors and flange

Weight 1 lb 8 oz

Power 12 volts, 12 watts

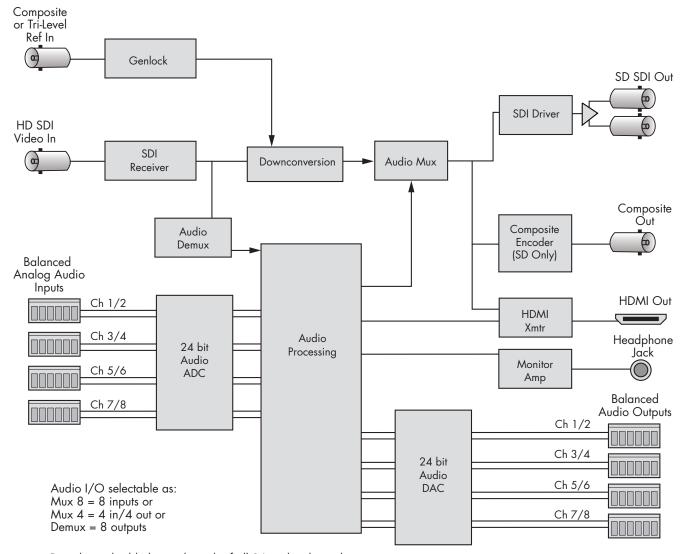
(100-230 VAC modular power supply)

Temperature Range 0 to 40° C ambient (all specs met)

Altitude 0 to 10,000 ft.



HD Downconverter with Analog Audio



Provides embedded pass through of all 16 audio channels

