BrightEy€ 94

SD Aspect Ratio Converter

BrightEye 94 is a standard definition aspect ratio converter. You can easily convert signals from 4:3 to SD 16:9, and vice versa.

All vertical interval data and closed captioning are 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.

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.

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.

Features

- SD ARC
- Timeable output
- · Mirror output mode for on-camera talent
- Graticule and Safe Title generator
- SDI, composite video and HDMI outputs
- Frame sync
- 12 and 16 bit processing
- Passes embedded audio







SD Aspect Ratio Converter

Analog Video Input

Number One

Type Analog Composite PAL or NTSC

Resolution Digitized at 12 bits

 $\begin{array}{lll} \text{Impedance} & 75 \, \Omega \\ \text{Return Loss} & >40 \, \text{dB} \\ \text{Input DC} & +/-1 \, \text{volt DC} \\ \text{Input Hum} & <100 \, \text{mV} \end{array}$

Serial Digital Input

Number One

Signal Type 270 Mb/s SD Serial Digital (SMPTE 259M)

 $\begin{array}{ll} \text{Impedance} & 75 \, \Omega \\ \text{Return Loss} & > 15 \, \text{dB} \end{array}$

Max Cable Length 300 meters for 270 Mb/s

Automatic Input Cable Equalization

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

Reference Input

Number One

Type 1 V P-P Composite Video PAL or NTSC or

Tri-Level Sync

Impedance 75Ω Return Loss >40 dB

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

Processing 12 and 16 b Impedance 75 Ω Return Loss >15 dB Max Cable Length 300 meters

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, 9 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.

