

BrightEye 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 Output Mode can be enabled, causing the output image to be flipped left to right for use with on-camera talent.



- SD ARC
- Timeable 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

Analog Video Input

Number	One
Type	Analog Composite PAL or NTSC
Resolution	Digitized at 12 bits
Impedance	75 Ω
Return Loss	>40 dB
Input DC	+/-1 volt DC
Input Hum	<100 mV

Serial Digital Input

Number	One
Signal Type	270 Mb/s SD Serial Digital (SMPTE 259M)
Impedance	75 Ω
Return Loss	>15 dB
Max Cable Length	300 meters for 270 Mb/s
Automatic Input Cable Equalization	

Analog Video Output

Number	One
Type	Composite PAL or NTSC
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	75 Ω
Return Loss	>40 dB

Serial Digital Output

Number	Two
Type	SD Serial Digital
Processing	270 Mb/s SMPTE 259M-C
Impedance	12 and 16 bit
Return Loss	75 Ω
Max Cable Length	>15 dB
	300 meters

Monitor Output

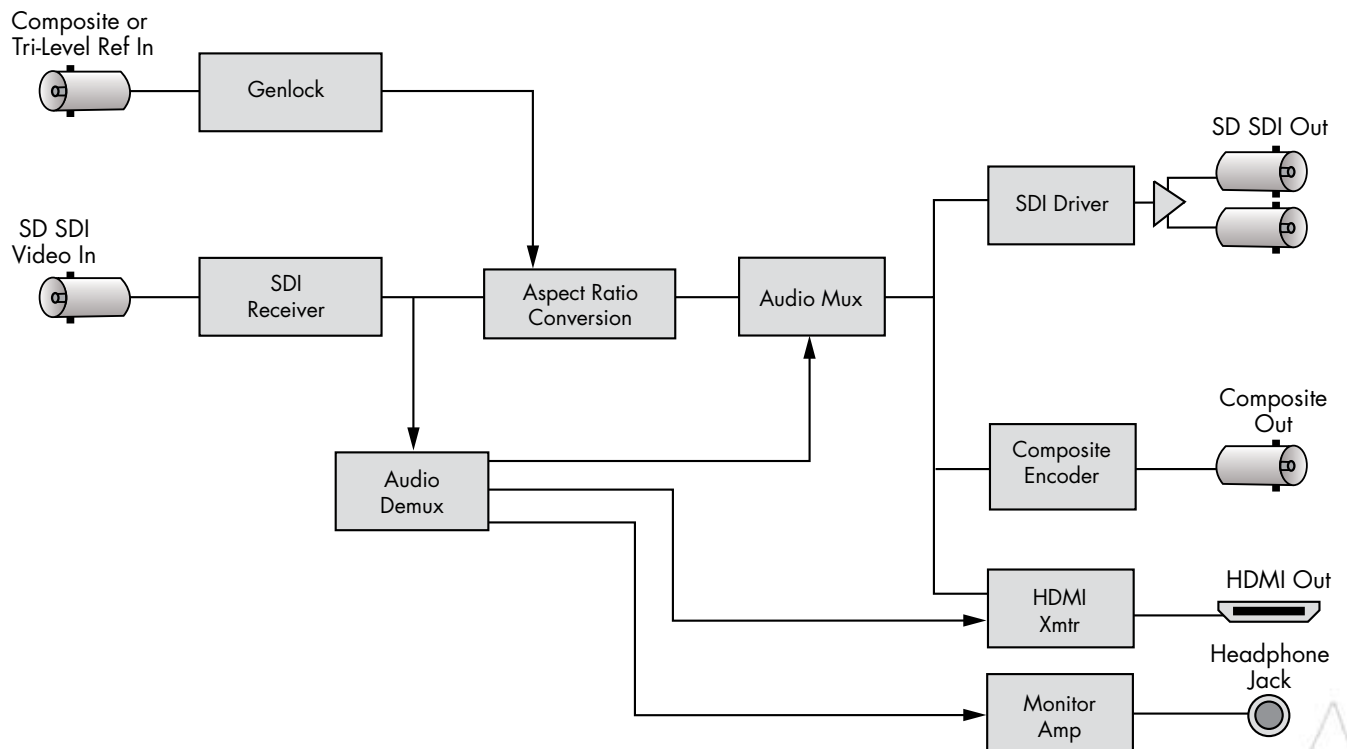
Number	One
Connector	HDMI

Audio Monitoring Output

Number	One
Connector	(select from eight channels) 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
Weight	1 lb 7 oz
Power	12 volts, 9 watts (100-230 VAC modular power supply not included)
Temperature Range	0 to 40° C ambient
Relative Humidity	0 to 95%, non-condensing



Provides embedded pass through of all 16 audio channels