



BrightEye 93

HD Cross Converter



- ▶ Convert between HD standards
- ▶ Timeable output
- ▶ HDMI output
- ▶ Frame Sync
- ▶ 12 and 16 bit processing

BrightEye 93 converts between various HD standards, whether 720p or 1080i. Simply select the output standard you need and connect the input, that's all there is to it. 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.

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Input selection, gain control, and test pattern controls are provided through the front panel interface. Audio presence LEDs indicate which channels are detected.

► Specifications

Serial Digital Input

Number	One
Signal Type	1.485Gb/s HD Serial Digital [SMPTE 274M or 296M]
Impedance	75 Ω
Return Loss	>15dB
Max Cable Length	100 meters for 1.485 Gb/s

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	HD Serial Digital 1.485 Gb/s SMPTE 274M or 296M-C
Processing	12 and 16 bit
Impedance	75 Ω
Return Loss	>15 dB
Max Cable Length	100 Meters for HD (Belden 1694A or equiv.)

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, 25Hz

Monitor Output

Number	One
Connectorization	HDMI

Audio Monitoring Output

Number	One (Select from eight channels)
Connectorization	3.5mm 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
Power	12 volts, 7 watts (100-230 VAC modular power supply not included)
Temperature Range	0 to 40 ° C ambient
Relative Humidity	0 to 95 ° non-condensing