





## BrightEye 90-A

### ► Specifications

#### Analog Video Input

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

#### Serial Digital Input

Number	One
Signal Type	270Mb/s SD Serial Digital [SMPTE 259M] or 1.485Gb/s HD Serial Digital [SMPTE 274M or 296M]
Impedance	75 $\Omega$
Return Loss	>15dB
Max Cable Length	300 meters for 270 Mb/s 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 $\Omega$
Return Loss	>40 dB

#### Analog Video Output

Number	One
Type	Composite PAL or NTSC
Return Loss	>40 dB
Output	DC <100 mV

#### Serial Digital Output

Number	Two
Type	HD Serial Digital 1.485 Gb/s SMPTE 274M or 296M or SD Serial Digital 270Mb/s SMPTE 259M-C
Impedance	75 $\Omega$
Return Loss	>15 dB
Max Cable Length	100 Meters for HD 300 Meters for SD [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

#### Analog Audio Inputs

Number	Eight [selectable as inputs or outputs]
Type	Balanced
Impedance	>15K $\Omega$
Max Input Level	24 dBu
CMRR	>60dB, 20Hz to 10KHz
Quantization	24 bits, 128x Oversampled
Sample Rate	48 KHz
Reference Level	-10 dBu or +4 dBu
Frequency Response	$\pm$ 0.1dB, 20Hz to 20KHz
Crosstalk	<106 dB
Dynamic Range	>106 dB

#### Analog Audio Outputs

Number	Eight [selectable as inputs or outputs]
Type	Balanced, transformerless
Impedance	30 $\Omega$
Maximum Output Level	24 dBu
Resolution	24 bits, 128x Oversampled
Reference Level	-10 dBu or +4 dBu
Frequency Response	$\pm$ 0.1dB, 20Hz to 20KHz
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

#### Monitor Output

Number	One
Connectorization	HDMI

#### Audio Monitoring Output

Number	One
[Select from eight channels]	
Connectorization	3.5mm mono 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]
Temperature Range	0 to 40° C ambient
Relative Humidity	0 to 95° non-condensing