



BrightEye 90-F

► Specifications

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	270Mb/s SD Serial Digital [SMPTE 259M] or 1.485Gb/s HD Serial Digital [SMPTE 274M or 296M]
Impedance	75 Ω
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 Ω
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	One
Type	HD Serial Digital 1.485 Gb/s SMPTE 274M or 296M or SD Serial Digital 270Mb/s SMPTE 259M-C
Impedance	75 Ω
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

Embedded Output (In Serial Output)

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

AES/EBU Digital Inputs

Number	Four [total of eight channels] [selectable as inputs or outputs]
Type	AES3id
Connectorization	Coaxial, 75 Ω
Bit Depth	20 and 24 Bit
Sample Rate	30KHz to 96KHz [Sample Rate Converted internally to 48KHz]
Reference Level	-18 or -20 dBFS [Selectable]

AES/EBU Digital Outputs

Number	Four [total of eight channels] [selectable as inputs or outputs]
Type	AES3id
Connectorization	Coaxial, 75 Ω
Bit Depth	24 Bit
Sample Rate	48 KHz
Reference Level	Synchronous to video output -18 or -20 dBFS [selectable]

Optical Output

Number	One
Type	SD [SMPTE 297M, optical equivalent of 259M] HD [SMPTE 274M or 296M]
Wavelength	1310 nm
Power	-7 dBm
Max Cable Length	20 km
Fiber Type	Single Mode Multi-mode compatible with 8 dB attenuation at transmit end
Connector	SC

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