BrightEye 72 & 72-F

SDI to HDMI Converter, Color Corrector and Broadcast Confidence Monitor

Pay a tenth of the cost for your monitors. Combine BrightEye 72 with any HDMI monitor for high-end display applications in broadcast and post. Color correction and temperature adjustments are made easy with the front panel and computer controls. Open captions, timecode and audio presence can be displayed on your monitor giving you confidence your signal is correct.

BrightEye 72 accepts an SD, 1.5 Gb/s HD or 3 Gb/s HD SDI digital signal and outputs HDMI.

Front panel controls include: complete proc amp, built-in test signals for use in aligning the monitor, graticule, H/V pulse delay, on screen audio VU meters, timecode burn in, AFD indicator and open caption decoding.

BrightEye 72 can display open captions on any HDMI video monitor. 608 or 708 caption data is decoded and displayed on-screen.

Audio presence is reported and on-screen VU meters show all 16 audio channels. If audio or Dolby E are embedded on the SDI input, audio is passed through on the HDMI output.

Horizontal and vertical split modes provide an easy way to see data in the vertical and horizontal intervals, including audio and closed caption data blocks.

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. Open captions are displayed correctly when Mirror mode is selected.

Use BrightEye 72 in studio applications where you need to adjust the color temperature of on-set monitors so they look right on-camera.

For facilities using 3G, the issue of monitoring the signal becomes a challenge. The BrightEye 72 provides a convenient way to monitor any type of digital video signal.

Order the BrightEye 72-F if you need an optical input.

Features

- **Turn any monitor into a high-end broadcast monitor**
- **Built-in color corrector – great for adjusting color temperature of on-set monitors**
- **Broadcast confidence monitor features including caption decoding, timecode display, AFD and audio level meters**
- **H & V shift for easy trouble shooting**
- **Safe Title/graticule overlay**
- **Mirror output mode for on-camera talent**
- **Use in post with 4:4:4 material**
- **Analog audio outputs**
- **Use with HD or SD monitors, VTRs and projectors**
- **Optical input available on BrightEye 72-F**

ENSEMBLE
D E S I G N S

SDI to HDMI Converter, Color Corrector and Broadcast Confidence Monitor

Serial Digital Input for BrightEye 72

Number	One
Type	1.485 Gb/s HD Serial Digital (SMPTE 274M, 292M or 296M)
	2.97 Gb/s HD Serial Digital (SMPTE 424M, 425M), Level A
	SD Serial Digital (270 Mb/s SMPTE 259M)
Impedance	75 Ω
Return Loss	>15 dB to 2.97 GHz
Max Cable Length	300 meters for 270 Mb/s
	100 meters for 1.485 Gb/s
	70 meters for 2.97 Gb/s
	(Belden 1694A)

Automatic Input Cable Equalization

Optical Input for BrightEye 72-F

Number	One
Connector	LC/UPC
Type	270 Mb/s (SMPTE 297M, optical equivalent of 259M)
	1.485 Gb/s Gb/s HD Serial Digital (SMPTE 274M, 272M or 296M)
	2.97 Gb/s HD Serial Digital (SMPTE 424M, 425M)
Wavelength	830 to 1610 nm
Receiver Sensitivity	-18 dBm
Max Cable Length	20 km (For greater distances, or higher power and larger loss budgets, please contact the factory)
Fiber Type	Single Mode
	Multi-mode compatible with attenuation at transmit end

SDI 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, 25 Hz
1080p (SMPTE 424M, 425M), 50, 59.94, 60, Level A
525i, 625i (SMPTE 259M)

HDMI Output

Number	One
Type	HDMI 1.3
Format	Follows input

Serial Digital Output

Number	One, loopback
Type	Follows input
Delay	< 5 µSec
Impedance	75 Ω
Return Loss	>15 dB to 2.97 GHz
Max Cable Length	300 meters for 270 Mb/s
	100 meters for 1.485 Gb/s
	70 meters for 2.97 Gb/s
	(Belden 1694A)

Analog Audio Output

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Number	8 channels

General Specifications

Size	5.63"W x 0.8" H x 5.98"D (143 mm x 21 mm x 152 mm) including connectors and flange
Weight	14 oz
Power	12 volts, 7 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.
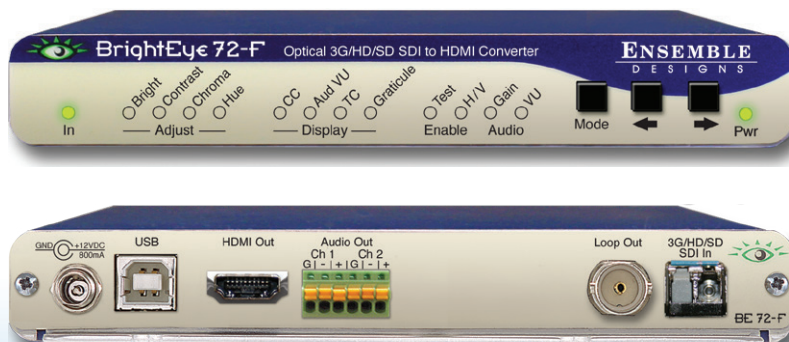
BrightEye 72 SDI to HDMI Converter, Color Corrector and Broadcast Confidence Monitor
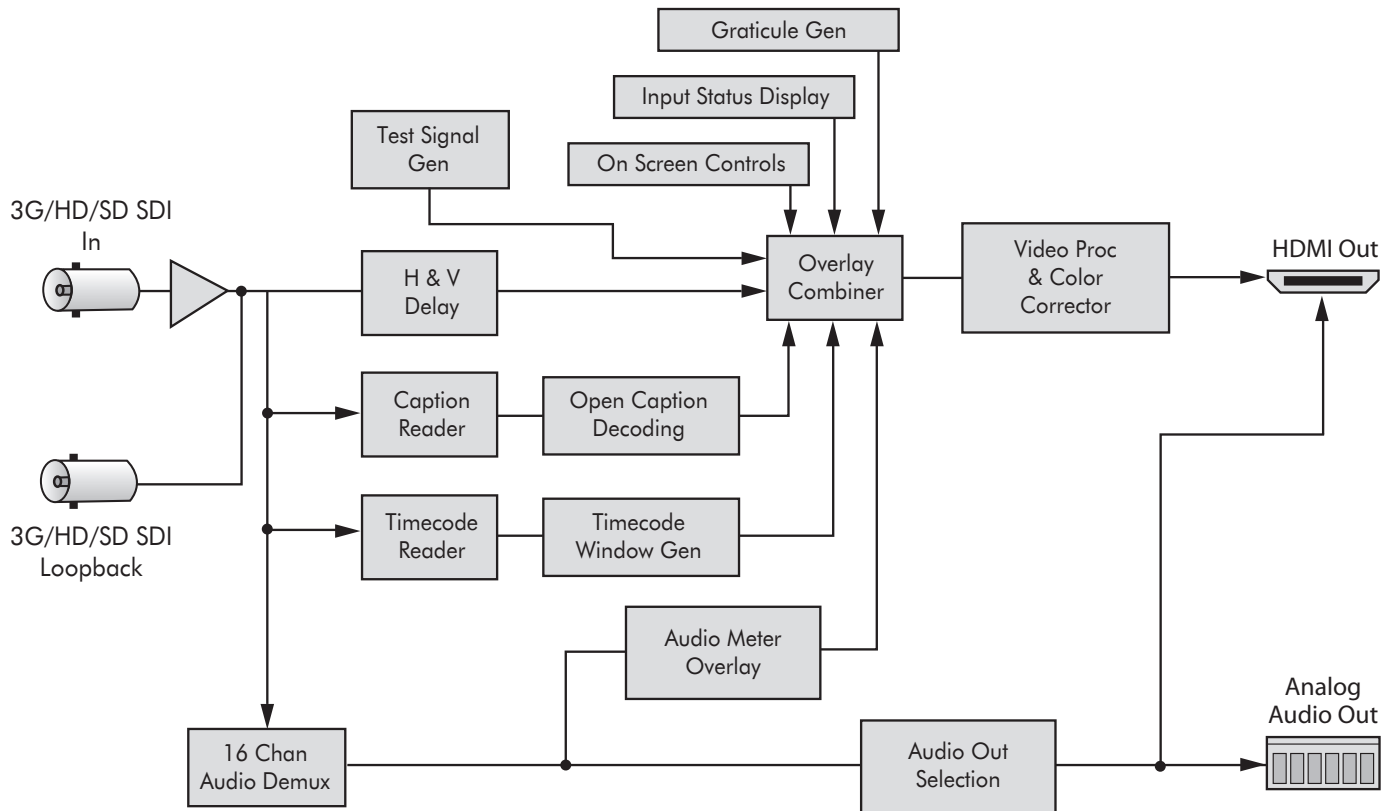
BrightEye 72-F SDI to HDMI Converter, Color Corrector and Broadcast Confidence Monitor with Fiber Optic Input