

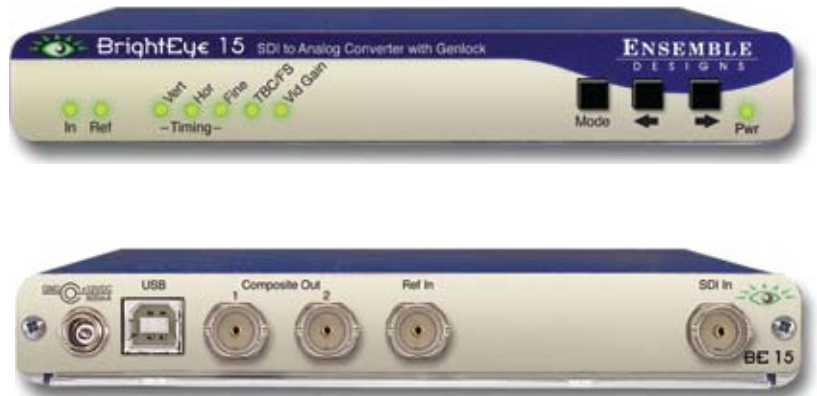
BrightEye 15

SD SDI to Analog Converter with Frame Sync / Genlock

BrightEye 15 is a digital to analog video converter with a timeable output. It's perfect for feeding analog switchers and routers, where signal timing is required.

BrightEye 15 has an SD SDI video input and a reference input. The input signal is converted to analog composite and synchronized (genlocked) to the reference signal. The analog composite output is fully timed with respect to the reference, including Sch phase.

Basic controls are provided on the front panel. With BrightEye Mac or PC software, you can control video proc functions; Gain, Chroma, Pedestal, and Hue. The vertical interval can be passed or blanked.



- ▶ Feed Analog Switchers and Routers
- ▶ SD SDI Input
- ▶ Analog Video Output
- ▶ Timing Control for Output

► Specifications

Serial Digital Input

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

Reference Input

| | |
|-------------|--------------------------------------|
| Number | One |
| Type | 1 V P-P Composite Video, PAL or NTSC |
| Impedance | 75 Ω |
| Return Loss | >40 dB |

Analog Video Output

| | |
|-------------|---------------------------------------|
| Number | Two |
| Type | Composite PAL or NTSC (follows input) |
| Return Loss | >40 dB |
| Output | DC < 100 mV |

SDI to Analog Performance

| | |
|--------------------|--|
| Bit Resolution | 12 bit output reconstruction 8 x oversampling |
| Signal to Noise | >65 dB |
| Timing Window | Infinite (with respect to reference) |
| Output | ScH Phase matches reference |
| Timing Resolution | Adjustable to within 1 degree of subcarrier |
| Frequency Response | ± 0.1 dB, 0 to 5.5 MHz |
| K Factor | <1% |
| ScH Phase Error | < ± 2 degrees |
| Differential Phase | <1 degree |
| Differential Gain | <1% |

General Specifications

| | |
|-------------------|---|
| Size | 5.625" W x 0.8" H x 5.5" D (143 mm x 20 mm x 140 mm) including connectors |
| Power | 12 volts, 3 watts (100-230 VAC modular power supply not included) |
| Temperature Range | 0 to 40° C ambient |
| Relative Humidity | 0 to 95° non-condensing |

