

# BrightEye 21

## AES/SD SDI Embedder

BrightEye 21 is an embedder, or multiplexer, with one standard definition serial digital video input and two AES digital audio inputs. The two AES audio streams are embedded into the digital video stream. The output is a serial digital video stream that contains the original video plus the two AES pairs.

Audio mixing, level adjustments, and channel shuffling are accessed through BrightEye Mac or PC software. Audio group selection is also made through BrightEye Mac or PC software. Use BrightEye 21 in desktop and broadcast applications.

### Features

- Use with desktop and broadcast applications
- Use with servers, workstations and routers
- Audio embedder
- SD SDI and AES inputs
- Embedded SDI output



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## AES/SD SDI Embedder

### Video Input

Number	One
Signal Type	270 Mb/s SD Serial Digital SMPTE 259M
Impedance	75 $\Omega$
Return Loss	>15 dB
Max Cable Length	300 meters
Automatic Input Cable Equalization	

### Video Output

Number	One
Signal Type	270 Mb/s SD Serial Digital SMPTE 259M
Delay	< 1 $\mu$ Sec to SDI path
Impedance	75 $\Omega$
Return Loss	>15 dB
Output DC	None (AC coupled)

### AES/EBU Digital Inputs

Number	Two (total of four channels)
Type	AES3id
Delay	< 250 $\mu$ Sec to audio I/O
Connector	Coaxial, 75 $\Omega$
Bit Depth	20 and 24 Bit
Sample Rate	30 KHz to 96 KHz (Sample Rate Converted internally to 48 KHz)
Reference Level	-18 or -20 dBFS (selectable)
AC-3, Dolby-E	Supported when inputs are synchronous

### 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	15 oz
Power	12 volts, 3 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.

