BrightEye 30-D Audio ADC and DAC, Bidirectional Converter with Delay

BrightEye 30-D is a flexible audio converter that can be a two channel, Bidirectional ADC and DAC, or it can be configured as a four channel converter. Perfect in desktop, post and broadcast applications, 24 bit processing ensures beautiful audio.

As a Bidirectional converter, two channels of analog audio are converted to AES digital audio and at the same time an AES stream is converted to two channels of analog.

Alternately, the unit can be configured as a four channel AES to analog converter or a four channel analog to AES converter.

BrightEye 30-D also serves as a sample rate converter. For example, a digital 44.1 KHz signal from a CD player can be fed to the input and a digital AES3id, 48 KHz signal synchronous to the reference input will be output.

Audio mixing, level adjustments, channel shuffling and delay are accessed through BrightEye PC and BrightEye Mac. Audio delay adjustments simplify signal integration. A variety of audio connectors and adapters are available for integrating BrightEye 30-D to any type of system.

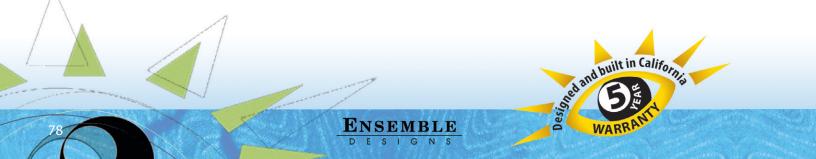
A reference input is provided which allows digital outputs to be synchronized to either a PAL or NTSC video signal or AES reference.

Features

- 2 or 4 channel audio converter
- Analog and digital inputs
- Analog and digital outputs
- Bidirectional ADC/DAC
- Sample rate converter
- Adjustable audio delay







BrightEye 30-D

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Analog Audio Inputs

Number	Four (selectable as inputs or outputs)
Туре	Balanced
Impedance	>15K Ω
Maximum Input Level	24 dBu
CMRR	>60 dB, 20 Hz to 10 KHz
Quantization	24 bits, 128 x oversampled
Sample Rate	48 KHz
Reference Level	-10 dBu or +4 dBu
Frequency Response	\pm 0.1 dB, 20 Hz to 20 KHz
Crosstalk	<106 dB
Dynamic Range	>106 dB

AES/EBU Digital Inputs

Number

Type Connector Bit Depth Sample Rate Two (total of four channels) (selectable as inputs or outputs) AES3id Coaxial, 75 Ω 20 and 24 Bit 30 KHz to 96 KHz (Sample Rate Converted internally to 48 KHz)

Analog Audio Outputs

Number	Four (selectable as inputs or outputs)
Туре	Balanced, transformerless
Delay	Adjustable from 5 to 1000 msec
Impedance	30 Ω
Maximum Output Level	24 dBu
Resolution	24 bits, 128 x oversampled
Reference Level	-10 dBu or +4 dBu
Frequency Response	\pm 0.1 dB, 20 Hz to 20 KHz
Crosstalk	<106 dB
Dynamic Range	>106 dB

AES/EBU Digital Outputs

Number	Two (total of four channels)	
	(selectable as inputs or outputs)	
Туре	AES3id	
Delay	Adjustable from 5 to 1000 msec	
Connector	Coaxial, 75 Ω	
Bit Depth	24 Bit	
Sample Rate	48 KHz	
	Synchronous to Video output	
Reference Level	-18 or -20 dBFS (selectable)	
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	1 lb	

Power12 volts, 3 watts
(100-230 VAC modular power supply)Temperature Range0 to 40° C ambient (all specs met)Relative Humidity0 to 95%, non-condensingAltitude0 to 10,000 ft.

BrightEye 30-D Block Diagrams on previous pages