

SONIFEX

Manufacturers of Audio & Video
Products For Radio & TV Broadcasters

Redbox RB-DEDD8
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Redbox - Dolby® Encoders & Decoders

RB-DEDD8 Dolby® E & Dolby Digital Decoder 8 Channel, Digital Outputs



The RB-DEDD8 is a Dolby® E & Dolby Digital Decoder. It decodes an incoming Dolby bitstream and transmits the decoded outputs on BNC or D-type connectors on the rear panel. The Dolby input is also looped through to allow connection to other Dolby receiver equipment.

Each digital output channel has independent level control, which can be adjusted from -24dB through to +24dB in 0.5dB steps. The digital inputs and outputs can be selected to be either balanced or unbalanced AES/EBU specification, and can be connected through either BNC or D-type connectors. These I/O connections are paralleled, allowing one type to be used per input or output.

The metadata output from the decoder is transmitted using RS-485 via the external 9-pin D-type socket on the rear panel and can also be viewed using the SCI software.

A video input is used to genlock the audio outputs and Dolby® E decoding to a known video reference. This input autodetects between NTSC, PAL or Tri-level sync.

8 general purposes inputs and 8 outputs are available on a rear panel 25 way D-type socket whose function can be programmed using the menu, e.g. alarm outputs for loss of input or decoder errors.

The unit is controlled locally through the front panel display but can be remote controlled via an RS-232 serial connection using the Sonifex SCI software.

Audio Specification For RB-DEDD8

Output Sample Rate:	48kHz
Input Sample Rates:	32-48kHz
Input & Output Impedance:	75Ω/110Ω selectable
Signal Level (Un-terminated):	Unbalanced: 1Vp-p ±20% Balanced: 6.6Vp-p ±20%
Digital Audio I/O:	
Dolby Input:	1 x Dolby bitstream input via BNC
Outputs:	8 x Digital audio output channels & 2 x Auxiliary audio output (stereo downmix) channels via 5 x BNCs or 25 way D-type socket
Dolby Output:	1 x Dolby bitstream output via BNC or D-type
Digital Audio Connectors:	7 x BNC 1 x 25 way D-type socket
Metadata:	SMPTE-RDD06, 9 way D-type socket

Video Reference

Reference Type:	Autodetect NTSC, PAL or Tri-level sync
Impedance:	75Ω
Connector:	1 x BNC
LTC Output:	1 x BNC (not used)

Operational Control

Display:	Vacuum fluorescent display
System Navigation:	Rotary selector with integral push-switch

Additional Connections

Remote Input/Output Port:	25-way 'D'-type socket
Serial Port:	RS232, 9 way D-type socket
Power Supply:	Universal filtered IEC, continuously rated 85-264VAC @47-63Hz, fused
Fuse Rating:	Anti-surge fuse 1A 20 x 5mm

Physical Specifications

Dimensions (Raw):	48cm (W) x 10.8cm (D)* x 4.2cm (H) 19" (W) x 4.3" (D*) x 1.7" (H) (1U)
Dimensions (Boxed):	59cm (W) x 27.5cm (D) x 11cm (H) 23.2" (W) x 10.8" (D) x 4.3" (H)
Weight:	Nett: 1.8kg Gross: 2.3kg Nett: 4.0lb Gross: 5.1lb

* Note that this product is deeper than standard Redboxes

Equipment Type

RB-DEDD8	Dolby® E & Dolby Digital decoder 8 channel, digital outputs
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Accessories

RB-RK3:	1U Rear panel rack kit for large Redboxes
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