

SONIFEX

Manufacturers of Audio & Video
Products For Radio & TV Broadcasters

Redbox RB-DEED8
September 2010



www.sonifex.co.uk

t: +44 (0)1933 650 700

f: +44 (0)1933 650 726

sales@sonifex.co.uk

Redbox - Dolby® Encoders & Decoders

RB-DEED8

Dolby® E Encoder 8 Channel, Digital Inputs



Dolby® and the double-D symbol are registered trademarks of Dolby Laboratories

The RB-DEED8 is a Dolby® E Encoder. It encodes up to 8 digital audio channels into a single Dolby bitstream output. There is also an extra Dolby output for connection to monitoring equipment.

Each digital input 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.

Metadata can be input to the encoder 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 output and Dolby® E encoding 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 encoder errors.

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

Audio Specification For RB-DEED8	
Output Sample Rate:	48kHz
Input Sample Rates:	CH1/2 & CH3/4: 32-192kHz CH5/6 & CH7/8: 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: Inputs:	8 input channels via 4 x BNCs or 25 way D-type socket (AES3)
Dolby Output 1:	1 x Dolby bitstream output via BNC
Dolby Output 2:	1 x Dolby bitstream output via BNC or 25 way D-type socket (AES3)
Digital Audio Connectors:	6 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 Input:	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
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-DEED8	Dolby® E encoder 8 channel, digital inputs
Accessories	
RB-RK3:	1U Rear panel rack kit for large Redboxes

SONIFEX

www.sonifex.co.uk

t:+44 (0)1933 650 700

f:+44 (0)1933 650 726

sales@sonifex.co.uk

61 Station Road
Irthlingborough
Northants NN9 5QE
United Kingdom