

IEM IN-EAR MONITOR PROCESSOR

Digital Multi-band Compressor/Limiter/Parametric EQ/PeakStop™ Limiter/ **lexicon** Reverb

dbx®

PROFESSIONAL PRODUCTS

VISIONARY DESIGN

Finally! There is now a digital signal processor that has been designed specifically for in ear monitor applications. New from dbx Professional Products, comes the IEM, In-Ear-Monitor Processor which is the ideal tool for fine-tuning mix monitoring for In-Ear monitoring devices. Not only does the IEM provide the legendary dbx effects in the digital domain, such as 4-band stereo compression, PeakStop™ limiting and 5-band parametric EQ, but the IEM also includes stereo adjust, dbx proprietary Type IV™ conversion system, and for good measure, we have even raised the playing field by including custom reverb algorithms using the industry-standard Lexicon® digital reverb technology. The IEM from dbx Professional Products is a unit that is certain to take In-Ear Monitor processing to the next level.

REVOLUTIONARY ENGINEERING

From the company that has been redefining the standard of signal processing for more than 25 years, dbx® Professional Products now offers a bulletproof product that caters to the scrutinizing needs of performers who utilize In-Ear Monitoring devices. The IEM was designed with the simple purpose and vision of enhancing the sonic quality of all In-Ear monitor applications, while providing the necessary audio level protection that artists and engineers require. The design team at dbx has achieved this pursuit by building a unit that offers effects including: 4-band stereo compressor with gating and limiting, 5-Band Parametric EQ, PeakStop™ limiting, Stereo adjust and Lexicon® reverbs. In addition to methodically designing a utilitarian unit that includes an intuitive user front panel which provides instant access to all effects within the IEM at the push of a button, as well as a large custom display which clearly shows all operational information of the unit in a logical manner. Software updates can be downloaded instantly from www.dbxpro.com through the RS 232 port.

FEATURES

- *Industry-Standard Lexicon® Reverb Algorithms*
- *48 bit internal signal path for increased head room and low level resolution*
- *TYPE IV™ A/D Conversion system with TSE™*
- *4-band stereo Compressor and limiter with classic dbx Compression*
- *5-band EQ – Hi and Lo shelves, 3 band fully parametric*
- *PeakStop™ limiting*
- *Stereo adjust – to control your stereo image*
- *Software updateable via Internet and RS 232 port*
- *4-band crossover with variable slopes*

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H A Harman International Company

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SPECIFICATIONS

Inputs

Connectors:	Female XLR and 1/4" TRS (Pin 2 and tip hot)
Type:	Electronically balanced/unbalanced, RF filtered
Impedance:	Balanced >18 kΩ, unbalanced >9 kΩ
Max Input Level:	+24 dBu balanced or unbalanced
CMRR:	>40 dB, typically >55 dB at 1 kHz
Input Gain Range:	-∞ to +16 dB
MIDI:	5-Pin DIN MIDI Input Jack

Outputs

Connectors:	Male XLR and 1/4" TRS (Pin 2 and tip hot)
Type:	Servo-balanced/unbalanced, RF filtered
Impedance:	Balanced 120 Ω, unbalanced 60 Ω
Max Output Level:	>+21dBu balanced/unbalanced into 2kΩ or greater >+20dBm balanced/unbalanced (into 600Ω)
Output Gain Range:	-∞ to +16 dB
MIDI:	5-Pin DIN MIDI Out/Thru Jack
PC COMM:	RS 232

A-D System Performance

A-D Conversion:	24-bit, dbx Type IV™ Conversion System
Convertor Dynamic Range:	114 dB typical, A-weighted, 22 kHz bandwidth 112 dB typical, unweighted, 22 kHz bandwidth

Type IV™ Dynamic Range:	Up to 127 dB with transient material, A-weighted, 22 kHz bandwidth Up to 125 dB with transient material, unweighted, 22 kHz bandwidth Typically 119 dB with program material, A-weighted, 22 kHz bandwidth Typically 117 dB with program material, unweighted, 22 kHz bandwidth
THD+Noise:	0.002% typical at +4 dBu, 1 kHz, input gain at 0 dB
Frequency Response:	20 Hz to 20 kHz, +0/-0.5 dB
Interchannel Crosstalk:	< -85 dB at 1 kHz, input gain at 0 dB

D-A System Performance

D-A Conversion:	24-bit
Dynamic Range:	115 dB typical, A-weighted, 22 kHz bandwidth 112 dB typical, unweighted, 22 kHz bandwidth
THD+Noise:	0.002% typical at +4 dBu, 1 kHz, output gain at 0 dB
Frequency Response:	20 Hz to 20 kHz, +0/-0.5 dB
Interchannel Crosstalk:	< -85 dB at 1 kHz, output gain at 0 dB

Power Supply:

Operating Voltage:	100-240 VAC 50/60 Hz
Power Consumption:	24 watts

Physical:

Dimensions:	1.75"Hx10"Dx19"W
Weight:	7.14 lbs. (3.24 kg)
Shipping Weight:	10 lbs (4.40 kg)

dbx engineers are constantly working to improve the quality of our products. Specifications are, therefore subject to change without notice.

FOR MORE INFORMATION CONTACT:

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