

# IEM IN-EAR MONITOR PROCESSOR

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

**dbx**<sup>®</sup>  
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](http://www.dbxpro.com) through the RS 232 port.

## FEATURES

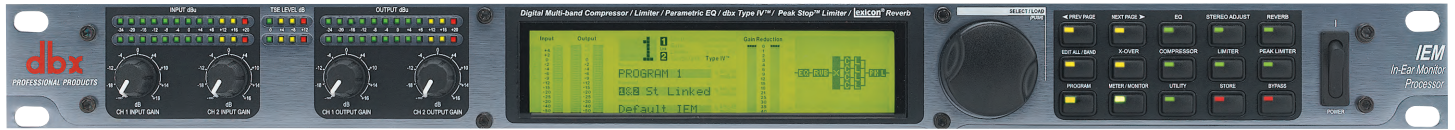
- Industry-Standard Lexicon® Reverb Algorithms
- 48 bit internal signal path for increased head room and low level resolution
- TYPE IV™ A/D Conversion system with TSE™
- 4-band stereo Compressor and limiter with classic dbx Compression
- 5-band EQ – Hi and Lo shelves, 3 band fully parametric
- PeakStop™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

8760 S. Sandy Pkwy.  
Sandy, Utah 84070  
Phone (801) 568-7660  
Fax (801) 568-7662  
Int'l Fax (801) 568-7583  
customer@dbxpro.com  
<http://www.dbxpro.com>

**H** A Harman International Company

18-1788-A 01/01





## 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<br>>+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<br>112 dB typical, unweighted, 22 kHz bandwidth |

|                         |  |
|-------------------------|--|
| Type IV™ Dynamic Range: | Up to 127 dB with transient material, A-weighted, 22 kHz bandwidth<br>Up to 125 dB with transient material, unweighted, 22 kHz bandwidth<br>Typically 119 dB with program material, A-weighted, 22 kHz bandwidth<br>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<br>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:

dbx Professional Products  
 8760 S. Sandy Pkwy.  
 Sandy, Utah 84070  
 Phone (801) 568-7660  
 Fax (801) 568-7662  
 Int'l Fax (219) 462-4596  
 customer@dbxpro.com  
<http://www.dbxpro.com>