

480 DriveRack®

Complete Equalization & Loudspeaker Management System

dbx®
PROFESSIONAL PRODUCTS

VISIONARY DESIGN

The DriveRack® 480 Complete Equalization & Loudspeaker Management System is the flagship product in the DriveRack™ line. The 480 offers the user four inputs and eight outputs on XLR connectors. Each channel has EQ in the form of a 9-Band Parametric or a 31-Band Graphic and Notch Filters. In addition, the 480 features a filter set that can be used to create a Highpass, Lowpass or Bandpass filter. Dynamics processing is available on all channels with a Compressor/Limiter that emulates the classic dbx 160. The output section of the 480 offers delay, output level and phase compensation. The 480 is also capable of running dual real-time analyzers on channels three and four. A 480 master, a PC GUI, or a 480R remote can control the 480. Any combination of 480s, 481s, 482s and 442s can be controlled on a single DriveRack® network consisting of up to 100 units.

REVOLUTIONARY ENGINEERING

The DriveRack® design team set out to create a product that would be able to fulfill all of the requirements of its users by providing a device that would handle all aspects of superior sonic loudspeaker management and equalization. The result of that quest is the 480 DriveRack®, which has been designed with the purpose and vision of providing four independent channels of processing power that includes 31-Band Graphic equalizer, as well as dbx's own industry standard dynamics processing. All aspects of the aforementioned features can be controlled by the included dbx Professional Products Interactive DriveWare™ software. Software updates can also be downloaded instantly from www.dbxpro.com through the RS 232 port.

FEATURES

- 4 Input and 8 Outputs with routing
- 31 band graphic or 9 band parametric equalizer on every input (pre-crossover)
- Dual Real Time Audio Analyzers
- Butterworth, Bessel or Linkwitz-Riley crossover filters
- 27 Different Crossover Configurations
- Time Alignment and Transducer Alignment Delays
- Compressor/Limiter on every output
- Speaker Compensation EQ (post crossover)
- Multi-level Security System
- Separate House and Show EQ with individual lockouts
- Triple redundant back up of all parameters when running network, 480R and PC GUI
- TYPE IV™ Conversion System
- Electronically balanced/RF filtered XLR Inputs and Outputs
- Proprietary RS-485 Control Network
- RS-232 PC Interface for computer display and configuration

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H A Harman International Company



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SPECIFICATIONS

Number of Inputs:	4 (Inputs 3 or 4 can be selected as an RTA mic input)	Pre Delay Length:	680ms/channel
Connectors:	Female XLR	Crossover Type:	1x2, 1x3, 1x4, 1x5, 1x6 2x3, 2x4, 2x5, 2x6, 2x7, 2x8, 3x4, 3x5, 3x6, 3x7, 3x8, 4x6, 4x8
Type:	Electronically balanced/RF filtered	Filter Type:	Butterworth, Bessel, or Linkwitz-Riley
Impedance:	>40kΩ	Slope:	6, 12, 18 or 24 dB/octave for Butterworth or
Maximum Input Level:	Hardware selectable for +30, +22, +14, 0dBu	Bessel filters	12, 24, 36 or 48 dB/octave for Linkwitz-Riley
Max input RTA Level:	-10 dBu	filters	
CMRR:	>40 dB typical, >55 dB at 1kHz	Post EQ Type:	Parametric
Input Gain Range RTA:	10 dB to 70 dB w/60 dB typical	Number:	4 EQ bands per output channel
Outputs		Range:	+/-15 dB range
Number of Outputs:	8	Dynamics Type:	Compressor/Limiter with PeakStopPlus™
Connectors:	Male XLR	Attack/Release:	Program Dependent
Type:	Electronically balanced, RF filtered	Linking:	All 8 bands are linkable
Impedance:	120Ω	Post Delay (Driver Alignment) Length:	170 ms per output channel
Output Transformers:	Optional	Pink Noise Generator Position:	Pink noise inserted on selected input(s)
Max Output Level:	+25.5 dBu into 1kΩ +22dBu into 600Ω	Phase Compensation Number:	One per output channel
A/D Performance		Amount:	0-180 degrees phase shift
Type:	dbx Type IV™ Conversion System	Output Polarity:	Reversible
Dynamic Range line:	>112 dB unweighted, 115 dB A-weighted	Miscellaneous	
Type IV™ dynamic range:	127 dB with transient material, A-weighted, 22kHz BW 125 dB with transient material, unweighted, 22kHz BW 119 dB typical with program material, A-weighted, 22kHz BW 48kHz	Output Transformers:	Optional
Sample Rate:	48kHz	Network:	Proprietary RS-485 Backbone
A/D Wordlength:	24 bits	GUI:	RS-232 interface for computer display and configuration
D/A Performance		RTA Microphone ROM Upgrade:	Optional
Dynamic Range:	112 dB unweighted, 115 dB A-weighted	Power Requirements	Flash upgradeable through RS-232
Sample Rate:	48kHz	Watts:	100-240V - 50/60 Hz 35 Watts
D/A Wordlength:	24 bits	Dimensions:	Height- 3.5" X Width- 19" X Depth 12.15"
System Performance		Weight:	11lbs.
Internal Wordlength:	48 bits	Shipping Weight:	12.5lbs.
THD + Noise:	0.003% typical at +4dBu, 1kHz, 0dB input gain		
Frequency Response:	20Hz- 20kHz, +/-0.5dB		
Interchannel Crosstalk:	<-85dB at 1kHz, 0dB input gain		
Pre EQ Type:	One 31-band Graphic EQ per input channel, or 9 band Parametric EQ per input channel RTA can be substituted for EQ in channels 3 and 4		
Range:	+/-12 dB range		
Notch Filters Number:	1-5 per input channel not to exceed 10 for all input channels		

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

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