

# 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](http://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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## 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:	>40k $\Omega$	Slope:	6, 12, 18 or 24 dB/octave for Butterworth or 12, 24, 36 or 48 dB/octave for Linkwitz-Riley filters
Maximum Input Level:	Hardware selectable for +30, +22, +14, dBu	Post EQ Type:	Parametric
Max input RTA Level:	-10 dBu	Number:	4 EQ bands per output channel
CMRR:	>40 dB typical, >55 dB at 1kHz	Range:	+/-15 dB range
Input Gain Range RTA:	10 dB to 70 dB w/60 dB typical	Dynamics Type:	Compressor/Limiter with PeakStopPlus™
Outputs	9	Attack/Release:	Program Dependent
Number of Outputs:	9	Linking:	All 8 bands are linkable
Connectors:	Male XLR	Post Delay (Driver Alignment) Length:	170 ms per output channel
Type:	Electronically balanced, RF filtered	Pink Noise Generator Position:	Pink noise inserted on selected input(s)
Impedance:	120 $\Omega$	Phase Compensation Number:	One per output channel
Output Transformers:	Optional	Amount:	0-180 degrees phase shift
Max Output Level:	+25.5 dBu into 1k $\Omega$ +22dBu into 600 $\Omega$	Output Polarity:	Reversible
A/D Performance		Miscellaneous Output Transformers:	Optional
Type:	dbx Type IV™ Conversion System	Network:	Proprietary RS-485 Backbone
Dynamic Range line:	>112 dB unweighted, 115 dB A-weighted	GUI:	RS-232 interface for computer display and configuration
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	RTA Microphone:	Optional
Sample Rate:	48kHz	ROM Upgrade:	Flash upgradeable through RS-232
A/D Wordlength:	24 bits	Power Requirements Watts:	100-240V - 50/60 Hz 35 Watts
D/A Performance		Dimensions	Height- 3.5" X Width- 19" X Depth 12.15"
Dynamic Range:	112 dB unweighted, 115 dB A-weighted	Dimensions:	11lbs.
Sample Rate:	48kHz	Weight:	12.5lbs.
D/A Wordlength:	24 bits	Shipping Weight:	
System Performance			
Internal Wordlength:	48 bits		
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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