

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

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



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