

# 482 DriveRack®

Complete Equalization & Loudspeaker Management System



PROFESSIONAL PRODUCTS

## VISIONARY DESIGN

The goal was quite simple: design an all-inclusive product that offers a complete integration of all of the elements required to achieve state-of-the-art loudspeaker management. This design goal was reached and exceeded with introduction of the DriveRack® series. The 482 includes all of the functionality and features of the 480. Unlike the 481, the 482 incorporates 4 inputs and 8 outputs on XLR connectors. The 482 also has the use of a streamlined, tamper-resistant front panel. With this design feature in place, all programming functions of the 482 can be performed through a 480 master, the 480R, or via the Windows GUI. Up to 99 DriveRack® units can be chained together when using the exclusive DriveRack® network protocol.

## REVOLUTIONARY ENGINEERING

The 482 DriveRack® continues the legacy DriveRack® series, which has been created by the company that has been redefining the standard of signal processing for more than 30 years. dbx® Professional Products has created a product that caters to numerous applications in tour sound and sound contractor requirements.

The 482 DriveRack® was designed with the purpose and vision of providing four independent input and eight output channels of processing power that include 31-Band Graphic equalizers, 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 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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# 482 DriveRack

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## SPECIFICATIONS

### Inputs

Number of Inputs: 4 (Inputs 3 or 4 can be selected as an RTA mic input)  
Connectors: Female XLR  
Type: Electronically balanced/RF filtered  
Impedance: >40k $\Omega$   
Maximum Input Level: Hardware selectable for +30, +22, +14, dBu  
Max input RTA Level: -10 dBu  
CMRR: >40 dB typical, >55 dB at 1kHz  
Input Gain Range RTA: 10 dB to 70 dB w/60 dB typical

### Outputs

Number of Outputs: 8  
Connectors: Male XLR  
Type: Electronically balanced, RF filtered  
Impedance: 120 $\Omega$   
Output Transformers: Optional  
Max Output Level: +25.5 dBu into 1k $\Omega$   
+22dBu into 600 $\Omega$

### A/D Performance

Type: dbx Type IV™ Conversion System  
Dynamic Range line: >112 dB unweighted, 115 dB A-weighted  
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  
Sample Rate: 48kHz  
A/D Wordlength: 24 bits

### D/A Performance

Dynamic Range: 112 dB unweighted, 115 dB A-weighted  
Sample Rate: 48kHz  
D/A Wordlength: 24 bits

### System Performance

Internal Wordlength: 48 bits  
THD + Noise: 0.003% typical at +4dBu, 1kHz, 9dB 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

### Pre Delay

Length: 680ms/channel

### Crossover

Type: 1x2, 1x3, 1x4, 1x5, 1x6  
2x3, 2x4, 2x5, 2x6, 2x7, 2x8, 3x4, 3x5, 3x6, 3x7, 3x8, 4x6, 4x8

### Filter Type:

Butterworth, Bessel, or Linkwitz-Riley  
Slope: 6, 12, 18 or 24 dB/octave for Butterworth or Bessel filters  
12, 24, 36 or 48 dB/octave for Linkwitz-Riley filters

### Post EQ

Type: Parametric  
Number: 4 EQ bands per output channel  
Range: +/-15 dB range

### Dynamics

Type: Compressor/Limiter with PeakStopPlus™  
Attack/Release: Program Dependent  
Linking: All 8 bands are linkable

### Post Delay (Driver Alignment)

Length: 170 ms per output channel

### Pink Noise Generator

Position: Pink noise inserted on selected input(s)

### Phase Compensation

Number: One per output channel  
Amount: 0-180 degrees phase shift  
Output Polarity: Reversible

### Miscellaneous

Output Transformers: Optional  
Network: Proprietary RS-485 Backbone  
GUI: RS-232 interface for computer display and configuration  
RTA Microphone: Optional  
ROM Upgrade: Flash upgradeable through RS-232

### Power Requirements

Watts: 100-240V - 50/60 Hz  
35 Watts

### Dimensions

Dimensions: Height- 3.5" X Width- 19" X Depth 12.15"  
Weight: 10 lbs.  
Shipping Weight: 11.5 lbs.

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

**dbx** PROFESSIONAL PRODUCTS

The Professional's Choice In Signal Processing

#### FOR MORE INFORMATION CONTACT:

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