

# 481 DriveRack™

Complete Equalization & Loudspeaker Management System

**dbx®**  
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 481 DriveRack™ includes all of the functionality and features of the 480 DriveRack™. The 481 incorporates 4 inputs and 8 outputs using Euroblock connectors. The 481 DriveRack™ also has a streamlined front panel which makes it ideal for permanent install applications. All programming functions of the 481 DriveRack™ can be performed through a 480 master, the 480R, or via the Windows GUI. By using the DriveRack™ network system, up to 99 DriveRack™ units can be chained together.

## REVOLUTIONARY ENGINEERING

The 481 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 481 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 backup of all parameters when running network, 480R and PC GUI
- TYPE IV™ Conversion System
- Electronically balanced/RF filtered Euroblock Inputs and Outputs
- Proprietary RS-485 Control Network
- RS-232 PC Interface for computer display and configuration

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## SPECIFICATIONS

<b>Inputs</b> Inputs: 4 Connectors: Euroblock Type: Electronically balanced/RF filtered Impedance: >40k $\Omega$ Max Input Level: Hardware selectable for +30, +22, +14, dBu CMRR: >40 dB typical, >55 dB at 1kHz	<b>Post EQ</b> Type: Parametric Number: 4 EQ bands per output channel Range: +/-15 dB range
<b>Outputs</b> Outputs: 8 Connectors: Euroblock Type: Electronically balanced, RF filtered Impedance: 120 $\Omega$ Max Output Level: +25.5 dBu into 1k $\Omega$ +22dBu into 600 $\Omega$	<b>Dynamics</b> Type: Compressor/Limiter with PeakStopPlus™ Attack/Release: Program Dependent Linking: All 8 bands are linkable
<b>A/D Performance</b> 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	<b>Post Delay (Driver Alignment)</b> Length: 170 ms per output channel
<b>D/A Performance</b> Dynamic Range: 112 dB unweighted, 115 dB A-weighted Sample Rate: 48kHz D/A Wordlength: 24 bits	<b>Pink Noise Generator</b> Position: Pink noise inserted on selected input(s)
<b>System Performance</b> 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	<b>Phase Compensation</b> Number: One per output channel Amount: 0-180 degrees phase shift Output Polarity: Reversible
<b>Pre EQ</b> 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	<b>Miscellaneous</b> Output Transformers: Optional Network: Proprietary RS-485 Backbone GUI: RS-232 interface for computer display and configuration Remote: Optional dbx 480R RTA Microphone: Optional ROM Upgrade: Flash upgradeable through RS-232
<b>Notch Filters</b> Number: 1-5 per input channel not to exceed 10 for all input channels	<b>Power Requirements</b> Watts: 100-240V - 50/60 Hz 35 Watts
<b>Pre Delay</b> Length: 680ms/channel	<b>Dimensions</b> Dimensions: Height- 1.75" X Width- 19" X Depth 7.90"
<b>Crossover</b> Type: 1x2, 1x3, 1x4, 1x5, 1x6 2x3, 2x4, 2x5, 2x6, 2x7, 2x8, 3x4, 3x5, 3x6, 3x7, 3x8, 4x6, 4x8	<b>Weight</b> Shipping Weight: 8 lbs. 9.5 lbs.
<b>Filter Type:</b> Butterworth, Bessel, or Linkwitz-Riley <b>Slope:</b> 6, 12, 18 or 24 dB/octave for Butterworth or Bessel filters 12, 24, 36 or 48 dB/octave for Linkwitz-Riley filters	

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

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The Professional's Choice In Signal Processing

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