

## 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:            | >40kΩ   |
| Max Input line Level: | +30 dBu   |
| Max input RTA Level:  | -10 dBu   |
| CMRR:                 | >40 dB typical, >55 dB at 1kHz                        |
| Maximum Input Level:  | Hardware selectable for +30, +22, +14 dBu             |
| 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:           | 120Ω                                 |
| Output Transformers: | Optional                             |
| Max Output Level:    | +25.5 dBu into 1kΩ                   |

### 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<br>125 dB with transient material, unweighted, 22kHz BW<br>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 +4 dBu, 1kHz, 0dB input gain |
| Frequency Response:     | 20Hz- 20kHz, +/-0.1 dB                         |
| Interchannel Crosstalk: | <-85 dB at 1kHz, 0 dB input gain               |

### Pre EQ

|        |  |
|--------|--|
| Type:  | One 31-band Graphic EQ per input channel, or 9 band Parametric EQ per input channel<br>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 |
|---------|---|

- Preliminary specifications, subject to change without notice.

### Pre Delay

|         |               |
|---------|---------------|
| Length: | 680ms/channel |
|---------|---------------|

### Crossover

|       |   |
|-------|---|
| Type: | 1x2, 1x3, 1x4, 1x5, 1x6<br>2x3, 2x4, 2x5, 2x6, 2x7, 2x8, 3x4, 3x5, 3x6, 3x7,<br>3x8, 4x6, 4x8 |
|-------|---|

|              |   |
|--------------|---|
| Filter Type: | Butterworth, Bessel, or Linkwitz-Riley  |
| Slope:       | 6, 12, 18, 24 dB per Octave for Butterworth and Bessel<br>12, 24, 36, 48 dB per Octave for Linkwitz-Riley |

### Post EQ

|         |                               |
|---------|-------------------------------|
| Type:   | Parametric                    |
| Number: | 4 EQ bands per output channel |

|        |                |
|--------|----------------|
| Range: | +/-15 dB range |
|--------|----------------|

### Dynamics

|       |  |
|-------|--|
| Type: | Compressor/Limiter with PeakStopPlus™, VariKnee™ and OverEasy® |
|-------|--|

### 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 |
| Flying Fader Remote: | Optional dbx 480R                                       |
| ROM Upgrade:         | Flash upgradeable through RS-232                        |

### dbx 481 Description

One rack space unit with 4 inputs and 8 output on Euroblock connectors. Internal specifications same as dbx 480.

### dbx 482 Description

Two rack space unit with 4 inputs and 8 output on XLR connectors. Output transformers optional. Internal specifications same as dbx 480.

### dbx 480R Description

Motorized fader remote control surface for DriveRack™ units.

### dbx 480P Description

One rack space power supply for dbx 480R Remote control unit.

DriveRack™

Complete Equalization & Loudspeaker Management System

**dbx**<sup>®</sup>  
PROFESSIONAL PRODUCTS



The **DriveRack™** is a perfect example of why dbx has always been synonymous with innovative ideas and a leader in cutting edge technology. Designed to be the only device necessary between the mixer and the power amps, the DriveRack™ exceeded our goal. Every tool you could ever ask for has been included, and is completely configurable.

The DriveRack™ is an all inclusive loud speaker management system versatile enough to suit any sound reinforcement, monitoring, or install application. There are five components available in the DriveRack™ line providing quick and easy solutions to every imaginable scenario across the audio spectrum.

The DriveRack™ system is comprised of several ele-

ments including the **480**, which can act as the master controller unit. The 480 is capable of controlling as many **481** and **482** units as your application requires through the DriveRack™ network communication interface. In addition, the entire system can be controlled and programmed by a single **480R** remote control unit or by a PC via the GUI interface.

It seems like such a simple idea to have one system capable of handling all of the **post mix processing** and **signal routing**, with one **master controller** capable of communicating with all the processing at once.

However, it took the creative insight of a leader in audio innovations to think of it. It's no wonder that dbx has been a legend in the audio industry for over 25 years.

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**480 DriveRack™**



At the heart of the DriveRack™ system is the 480. The 480 includes 4 inputs and 8 outputs which can be tailored for any configuration. By including every form of processing necessary to drive the signal from the mixer to the power amps, such as pre-crossover EQ, notch filters, speaker delay, multiple crossovers, speaker compensation equalizer, driver alignment delay, and compression/limiting, the 480 is truly the only box you'll need for any sound system application. Two real time analyzers can be run simultaneously with RTA source inputs capable of being remotely switched on the fly. The 480 is fully programmable from the front panel, with the 480R remote control, or through a computer via the PC port.

**481 DriveRack™**



**482 DriveRack™**



The 481 and 482 include all of the functionality and features of the 480. They both incorporate 4 inputs and 8 outputs with Euroblock connectors on the 481 and XLRs on the 482. However, they do not include the front panel programming interface. All programming functions can be performed through the 480, the 480R, or via the Windows GUI. An unlimited number of DriveRacks™ can be chained together.

**480R Remote for DriveRack™ System**



The 480R is the remote controller for the entire DriveRack™ system. It is capable of controlling and programming multiple 480, 481, and 482 units. It features 31 motorized faders which automatically recall the Graphic EQ settings of any unit on the network. The 480R can simultaneously control multiple DriveRacks™, allowing global EQ adjustments to be made quickly. Thirty-two instant access buttons can be programmed to immediately recall the parameter screens that you use the most. The large custom display mirrors the display of the selected unit, and the 480R also includes its own real time analyzer. The 480R can be stationed up to 500 feet from the master DriveRack™, making it the perfect choice for front-of-house mixing.

**480P Power Supply for 480R**

