442 DriveRack™

Complete Equalization Management System

dbx®
PROFESSIONAL PRODUCTS

VISIONARY DESIGN

The DriveRack™ 442 Complete Equalization Management System is the latest product in the DriveRack™ line. The 442 is based on the same operating system as the DriveRack™ 480 and offers the user four inputs and four 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 442 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 442 offers delay, output level and phase compensation. The 442 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 442. 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 442 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 442 DriveRack was 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 4 Outputs*
- *31 band graphic or 9 band parametric equalizer on every input*
- *Time Alignment Delay*
- *Compressor/Limiter on every output*
- *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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SPECIFICATIONS

Inputs

Number of Inputs:	4
Connectors:	Female XLR
Type:	Electronically balanced/RF filtered
Impedance:	>40kΩ
Maximum Input Level:	Hardware selectable for +30, +22, +14, dBu
CMRR:	>40 dB typical, >55 dB at 1kHz

Outputs

Number of Outputs:	4
Connectors:	Male XLR
Type:	Electronically balanced, RF filtered
Impedance:	120Ω
Output Transformers:	Optional
Max Output Level:	+25.5 dBu into 1kΩ +22dBu into 600Ω

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

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:	4 fixed per channel

Delay

Length:	340ms/channel

Dynamics

Type:	Compressor/Limiter with PeakStopPlus™
Attack/Release:	Program Dependent
Linking:	All 4 bands are linkable

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
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.

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