

# DriveRack<sup>®</sup> 220i

System Processor with AFS<sup>™</sup> Advanced Feedback Suppression

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

## VISIONARY DESIGN

Designed from the ground up to provide state-of-the-art signal processing, the DriveRack 220i is the perfect tool for any fixed-install application. With a full complement of processing features and Mic/Line inputs the DriveRack 220i can provide both system and microphone processing. Featuring the new, patent-pending Advanced Feedback Suppression (AFS) algorithm, equalization, dynamics processing, delay, matrix mixing, and bandpass filters, the DriveRack 220i will exceed your expectations.

## REVOLUTIONARY ENGINEERING

The DriveRack 220i is piloted from the intuitive DriveWare GUI that offers both Configuration and Control of the processing modules. Modules can be accessed, edited and saved as part of programs. Processing modules can be linked between the channels for true stereo processing. If independent processing is desired, parameters can be copied from one channel to the next to ensure that setup is quick and easy. Stored programs can be loaded from either the front panel or from wall mounted Zone Controllers. Zone Controllers can also be used for output muting or adjusting output volumes. For more information please visit [www.driverack.com](http://www.driverack.com) or [www.dbxpro.com](http://www.dbxpro.com).

## FEATURES

- **Advanced Feedback Suppression (AFS<sup>™</sup>)**
- **Graphic and Parametric EQ**
- **Compressor**
- **Limiter**
- **Auto Gain Control**
- **Noise Gating**
- **De-Esser**
- **Ducker**
- **Bandpass Filters**
- **Matrix Mixer**
- **1.3 Seconds of Delay**
- **RS-232 PC GUI control**
- **Mic/Line Inputs**
- **Wall Panel Control**
- **Security Lockout**

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# DriveRack® 220i

System Processor with AFS™ Advanced Feedback Suppression



## SPECIFICATIONS

### Analog Inputs:

Number of Inputs: (2) Switchable line or mic inputs  
Connectors: Female XLR line inputs and Euroblock  
Type: Electronically balanced/RF filtered

Impedance: > 50k  $\Omega$   
Max input line level: +20dBu  
CMRR: > 40dB, typically >55db @ 1kHz  
Mic Pre gain: 30 to 60dB  
Mic EIN: < 110dB, 22Hz-22kHz, 150 $\Omega$   
Mic Phantom Power: 15V

### Analog Outputs:

Number of Outputs: (2)  
Connectors: Male XLR and Euroblock  
Type: Electronically balanced, RF filtered  
Impedance: 120  $\Omega$  balanced, 60 $\Omega$  unbalanced  
Max Output Level: +20dBu

### A/D Performance:

Type: dbx Type IV™ conversion system  
Dynamic Range line: >113 dB A-weighted, >110 dB unweighted  
Type IV dynamic range: >119 dB, A-weighted, 22kHz BW  
>117 dB, unweighted, 22kHz BW  
Sample Rate: 48kHz

### D/A Performance:

Dynamic Range: 112 dB A-weighted, 109dB unweighted

### System Performance:

Dynamic Range: >110 dB A-weighted, >107dB unweighted,  
THD+N: 0.003% typical at +4dBu, 1kHz, 0dB gain  
Frequency Response: 20Hz – 20kHz, +/- 0.5dB  
Interchannel Crosstalk: >110dB, 120dB typical  
Crosstalk input to output: >80dB  
Operating voltage: 100 VAC, 50/60Hz, 120 VAC, 60Hz, 230VAC 50/60Hz  
Size: 19" Wide, 1.75" High, 7.7" Deep

### Safety Agency Approvals:

UL 6500, IEC 60065, EN 55013, E 60065

### Architects' and Engineers' Specifications:

The device shall provide two balanced inputs which are selectable as line level or mic level with phantom power. The line inputs and output gains shall be controllable via software; the mic inputs shall be adjustable from the rear panel. Analog audio inputs and outputs shall be accessible via rear panel XLR and Euroblock connectors.

The signal processing Graphic User Interface (GUI) software shall be user programmable using Windows® 98, 2000, and XP operating systems. Software control shall be via RS-232 protocol and shall be located on both the front and rear panel. The GUI shall provide display, configuration and control of all signal processing functions including, but not limited to: • Input Gain and Mixing • Graphic or Parametric Equalization • Compression • Limiting • Gating • Automatic Gain Control • Ducking • De-Essing • Advanced Feedback Suppression (AFS™) • Notch Filters • Sub-Harmonic Synthesis • Matrix Mixing • Bandpass Filtering • Delay

Front panel controls shall include program selection and load buttons. Clearing feedback suppression filters shall also be provided for using the program up and program down buttons. A PC connection and Clip indicator shall be located on the front panel. The front panel shall also include input and output level meters with a 6-segment LED meter and output dynamics threshold LED.

External control shall include program selection, output level control and muting, and shall be via industry-standard CAT5 cable with RJ45 connectors. The device shall include 20 internal programs with up to 10 being user configurable. All program memory shall be non-volatile providing program security should power or computer fail.

Audio conversion shall be 24-bit 48 kHz. The dynamic range of the processor shall not be lower than 110 dB A-weighted.

The device shall have an IEC power socket. The unit shall meet UL/CSA and CE safety requirements. The unit shall be constructed of cold-rolled steel with a brushed and anodized aluminum front panel, and mount into a standard 19" 1U EIA rack. The device shall be a dbx DriveRack® 220i.

### FOR MORE INFORMATION CONTACT:

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