









It began more 35 years ago with the vision of a single man to create a better way to record audio and that vision has continued into a new millennium. The late David Blackmer, who is universally considered to be the father of modern Compression, had a quest to improve the dynamic range of analog recordings using decibel expansion. This quest produced the decilinear VCA and RMS detector which taken together have changed the sonic landscape and made possible so many of our current audio technologies. In 1971, Mr. Blackmer founded dbx® which has collectively produced over 35 patents that continue to forge and reshape the landscape in the Live Sound, Studio Recording, and Installed Sound professional audio markets today. Our award-winning team of designers and engineers have embraced Mr. Blackmer's passion for audio purity with a vengeance, and continue to design and build the precise and accurate tools necessary for today's audio production. From our rock-solid Analog products like the 20-Series EQs and 10-Series Compressors, to our cutting-edge Performance and Commercial Audio products — our System Core (SC), DriveRack and ZonePRO lines — we provide the tools to accommodate all of your audio needs. This brochure is designed to help you navigate through our many product solutions and find the ones that meet your exact needs.

SC 64	30
SC 64	3 I
DriveRack®	
OriveRack 4800	32
OriveRack 4820	32
OriveRack 481	33
OriveRack 482	33
OriveRack 442	
OriveRack 260	34
OriveRack 220i	35
OriveRack PA2	36
ZonePRO <sup>™</sup>	
ZonePRO 1260/126123	7
	_
ZonePRO 640/641	
ZonePRO 640/64123  Blue/Purple Series -	
ZonePRO 640/64123 Blue/Purple Series - Quantum II	
ZonePRO 640/641	
ZonePRO 640/641	9
ZonePRO 640/641       .23         Blue/Purple Series -       Quantum II         160SL       .23         162SL       .23         Quantum II       .24	9
ZonePRO 640/641	9
ZonePRO 640/641       .23         Blue/Purple Series -       Quantum II         160SL       .23         162SL       .23         Quantum II       .24	9
ZonePRO 640/641	9 0 0
ZonePRO 640/641	9 0 0
ZonePRO 640/641	9 0 0
ZonePRO 640/641	9 0 0 0 0 2
ZonePRO 640/641	9 0 0 0 2 2
ZonePRO 640/641	9 0 0 0 2 2
ZonePRO 640/641	9 0 0 0 2 2 3
ZonePRO 640/641	9 0 0 0 2 2 3
ZonePRO 640/641 23  Blue/Purple Series - Quantum II  160SL 23 162SL 23 Quantum II 24 704X 24  EQs  EQ-15 24 EQ-31 24 2015 24 2031 24 2031 24 2031 24 2031 24 2031 24 2031 24 2031 24 2031 24 2031 24 2031 24 2031 24 2031 24	9 0 0 0 2 2 3 4
ZonePRO 640/641 23  Blue/Purple Series - Quantum II  160SL 23 162SL 23 Quantum II 24 704X 24  EQs  EQ-15 24 EQ-31 24 2031 24 2031 24 2031 24 2031 24 2031 24 2031 24 2031 24 2031 24	9 0 0 0 2 2 3 4 4

**SC**™

Silver Series
386
376
Dynamics
1046
1066
1074
160A247
166XL248
266XL248
Crossovers
223
223XL249
234
234XL249
Other
AFS 224
120A
286A
PB-48
IEM
ZonePRO Zone Controllers

Product Specs......253-257



### S C™ 6 4



# **QHiQ**net<sup>\*\*</sup>

HiQnet is a communications protocol or language with which all device-types within the full audio signal path can communicate.

Co-developed and shared by elite engineers from all the brands within the Harman Pro group, HiQnet merges the best features of all previous brand-independent communications protocols and thereby benefits from years of combined experience and is simultaneously optimized for all components of the full professional audio system.

# SC<sup>™</sup> 64

### **DIGITAL MATRIX PROCESSOR**

The SC 64 (System Core) is one of the first offerings in a new family from dbx® Professional Products. Wizard-driven configuration using HiQnet™ System Architect makes unprecedented DSP power, incredible routing flexibility and a rich palette of processing tools accessible with the minimum of training. The SC 64 represents the professional choice of foundation on which to build even the most demanding integrated system.

The SC 64 has a total analog I/O count of 64, configurable in banks of eight. Eight analog input cards and eight analog output cards facilitate nine different fully loaded configurations. Analog input cards accommodate a wide range of sources with mic/line switching and phantom power per input. Two high speed options slots provide facility for adding forthcoming high

bandwidth audio transport I/O cards.

With dedicated DSP for common processing functions and insert positions for specialized processing, the SC 64 offers many processing functions including Advanced Feedback Suppression (AFS™), Ambient Noise Compensation (ANC), priority ducking, parametric equalization (PEQ), delay and dynamics.

The SC 64 has a diverse range of control options including HiQnet™ System Architect custom control panels, Ethernet, serial, contact closure, the popular ZC wall controllers and even automatically scheduled events. With so many methods of control, an SC system can truly be tailored to suit the needs and technical expertise of the intended user.



- 64 channels of analog I/O configurable in banks of
- 8 Mic / Line and Phantom Power per channel on Analog Input Cards
- Ethernet / Serial Control
- Logic I/0
- Rich Palette of Processing Tools
- Selectable DSP inserts on all inputs and outputs including Advanced Feedback Suppression (AFS™), Automatic Gain Compensation (AGC), Compression, De-Essing and Notch Parametric Equalization

- Complete routing flexibility
- Comprehensive configuration, control and monitoring from HiQnet System Architect
- Wizard configuration
- Events Scheduler
- Optional Media Engine for media playback and delayed page
- Optional ZC wall panel control





# SC<sup>™</sup> 32

### **DIGITAL MATRIX PROCESSOR**

The SC 32 (System Core) is one of the first offerings in a new family from dbx® Professional Products. Wizard-driven configuration using HiQnet<sup>™</sup> System Architect makes unprecedented DSP power, incredible routing flexibility and a rich palette of processing tools accessible with the minimum of training. The SC 32 represents the professional choice of foundation on which to build even the most demanding integrated system.

The SC 32 has a total analog I/O count of 32, configurable in banks of eight. Eight analog input cards and eight analog output cards facilitate nine different fully loaded configurations. Analog input cards accommodate a wide range of sources with mic/line switching and phantom power per input. Two high-speed options slots provide facility for adding forthcoming high-bandwidth audio transport I/O cards. All of these features

- 32 channels of analog I/O Selectable DSP inserts on all configurable in banks of 8 Mic / Line and Phantom Power (AFS), Automatic Gain
- per channel on Analog Input Cards
- Ethernet / Serial Control
- Logic I/0
- Rich Palette of Processing Tools

are housed in a sleek IU rack chassis.

With dedicated DSP for common processing functions and insert positions for specialized processing, the SC 32 offers many processing functions including Advanced Feedback Suppression (AFS™), Ambient Noise Compensation (ANC), priority ducking, parametric equalization (PEQ), delay and dynamics.

The SC 32 has a diverse range of control options including HiQnet System Architect custom control panels, Ethernet, serial, contact closure, the popular Zone Controller wall controllers and even automatically scheduled events. With so many methods of control, an SC system can truly be tailored to suit the needs and technical expertise of even the scrutinizing contractor

HiQnet System Architect inputs and outputs including Advanced Feedback Suppression

Compensation (AGC), Compression,

De-Essing and Notch Parametric

Complete routing flexibility

Comprehensive configuration,

Equalization

- Wizard configuration
- Events Scheduler
- Optional Media Engine for media playback and delayed page

control and monitoring from

Optional ZC wall panel controllers

# Zone Controllers

The Zone Controllers offer extended utility to the SC, DriveRack® and ZonePro families. The nine Zone Controllers use analog DC voltage to provide logic control ranging from zone source selection, volume and muting, to program or scene selection and fire safety



muting. Wired with readily available and affordable CAT5 cable with universally accepted RJ-45 connectors at distances up to 1000 ft, the ZC Zone Controllers offer simple yet elegant solutions to the contractor. For more information on Zone Controllers, see page 26.



### DRIVERACK®





The 4820 is based on the same operating system as the DriveRack® 4800 without the Full Color QVGA Display Interface

- 48 and 96 kHz operation with Wordclock input
- Full Color QVGA Display (4800 only)
- 4 analog and AES/EBU inputs
- 8 analog and AES/EBU outputs
- Optional CobraNet® I/O
- Optional Jensen® I/O Transformers
- Full Bandpass Filter, Crossover and Routing Configurations with Bessel, Butterworth, and Linkwitz-Riley filters
- 31-Band Graphic and 9-band Parametric EQ on every input
- 6-band Parametric EQ on every output
- Loudspeaker Cluster and Driver Alignment Delays
- Selectable DSP inserts on all inputs and outputs including Classic dbx Compression, Limiting and Advanced Feedback Suppression among others
- Ethernet HiQnet networking and control
- dbx ZC wall panel control

# DriveRack® 4800 | DriveRack® 4820

### COMPLETE EQUALIZATION AND LOUDSPEAKER MANAGEMENT SYSTEM

Designed to provide incredible flexibility, sonic excellence and intuitive control for performance applications, the DriveRack 4800 is the new flagship of the hugely successful DriveRack family. From the powerful 96 kHz DSP engine and standard analog and digital I/O, to the QVGA display and multiple control surfaces, the 4800 provides all the processing, flexibility and control necessary for both installation and live use.

The DriveRack 4800 is the next generation of the famous DriveRack family, and like its predecessor it is engineered to provide "Everything you need between the mixer and the power amps". In keeping with this philosophy the 4800 includes four inputs and eight outputs with both analog and digital connectivity. The 96 kHz processing engine is capable of offering insert processing functions to customize the process-

ing path for your application, in addition



to the standard system processing functions all with extremely low latency and extended frequency response. From Signal Routing, EQ, and Bandpass Filters, to classic dbx® Dynamics and Feedback Suppression, all the processing is available and with the sonic excellence that you would expect from the world's leading system processing manufacturer. With all this processing power available, control is of paramount importance. The DriveRack 4800 provides a full color display to speed manual operation; this combined with intuitive front panel controls, an easy to use GUI and optional wall panel controllers means that whether your application is tour sound or installation, the DriveRack 4800 has what it takes.









# DriveRack® 481 DriveRack® 482

### COMPLETE EQUALIZATION AND LOUDSPEAKER MANAGEMENT SYSTEM

The 481 and 482 are slave units to the DriveRack 480 and 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 slaves can be chained together.

- 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 lockout
- Triple redundant back-up 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



# DriveRack® 442

### **COMPLETE EQUALIZATION MANAGEMENT SYSTEM**

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.

- 4 Inputs 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<sup>™</sup> Conversion System
- Electronically balanced/RF filtered XLR Inputs and Outputs
- Proprietary RS-485 Control Network
- RS-232 PC Interface for computer display and configuration





# DRIVERACK®

# DriveRack® 260

The DriveRack 260 was designed to provide

### COMPLETE EQUALIZATION AND LOUDSPEAKER CONTROL SYSTEM

state-of-the-art signal processing, while maintaining a simple and intuitive control RS-232 PC GUI control interface. This goal has been realized. From the powerful DSP modules to the multiple control surfaces, the 260 provides all the processing Graphic and Parametric EQ and control necessary for both installation and live use. Additionally, the Wizard function enables any user to quickly set up and use the

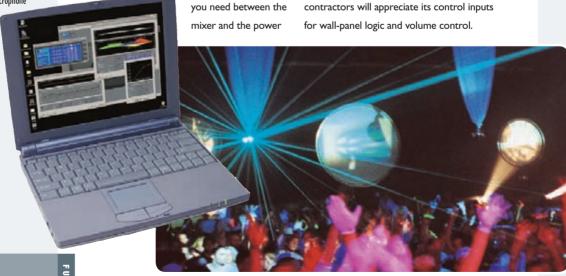
260 to its full potential by streamlining the setup process and providing a menu-based setup procedure that includes system setup and configuration, Auto-EQ, and Advanced

The DriveRack 260 is based on the same unparalleled design philosophy as the other products in the DriveRack family, namely, to

Feedback Suppression (AFS™) setup.

provide "Everything

amps." In keeping with that philosophy, the 260 offers 2 inputs and 6 outputs on XLR connectors. Each input channel provides a choice of EQ, either a 9-band Parametric or a 28-band Graphic EQ. Each input channel also boasts two selectable insert processors with a selection of Notch Filtering, classic dbx® Compression, Auto Gain Control, Sub-Harmonic Synthesis, or our own patented Advanced Feedback Suppression (AFS™). The DriveRack 260 also offers a configurable Delay with 2.7 seconds of total delay time. The 260 provides full Bandpass and Crossover filtering and routing including Bessel, Butterworth and Linkwitz-Riley topologies. There is parametric EQ available on each output as well as dbx PeakStopPlus™ Limiting. The 260 provides a full-time RTA for live sound applications, while contractors will appreciate its control inputs



- 2.7 Seconds of Alignment and Zone Delay
- Classic dbx Compression and Limiting
- Auto-EO Function
- Full Bandpass, Crossover, and **Routing Configurations**
- Auto Gain Control
- Pink Noise Generator and full-time RTA
- Setup Wizard with JBL speaker and Crown Power Amplifier **Tunings**
- Security Lockout
- Wall Panel Control Inputs
- Optional RTA-M microphone

PROFESSIONAL PRODUCTS





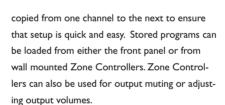
# DriveRack® 220i

### SYSTEM PROCESSOR WITH ADVANCED FEEDBACK SUPPRESSION

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, patented Advanced Feedback Suppression (AFS) algorithm, equalization, dynamics processing, delay, matrix mixing, and bandpass filters, the DriveRack 220i will exceed your expectations.

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

- Advanced Feedback Suppression (AFS)
- Graphic and Parametric EQ
- Compressor
- Limiter
- Auto Gain Control
- Noise Gating
- De-Esser
- Ducker
- Bandpass Filters
- 2x2 Matrix Mixer



- 1.3 Seconds of Delay
- RS-232 PC GUI control
- Mic/Line Inputs
- Wall Panel Control
- Security Lockout



Use the DriveRack 260 and 220i with Zone Controllers for control at the flick of a switch!

(See page 26 for more details)





# DRIVERACK®



# Patented Advanced Feedback Suppression (AFS)

- Dual 28-band Graphic EQ
- Classic dbx® Compressor
- 120A Sub-harmonic Synthesizer
- 2x3, 2x4, 2x5, 2x6 Crossover Configurations
- Stereo Multi-band Parametric EQ
- Stereo Output PeakPlus™ Limiters
- Alignment Delay
- Pink Noise Generator
- Auto-EQ with 28-band RTA
- JBL® Speaker and Crown Power Amp Tunings with Setup Wizard
- 25 User Programs/25 Factory Programs
- 2 Channel XLR Input and 6 Channel XLR Output
- Front panel RTA-M XLR input with phantom power
- 24-Bit ADC/24-Bit DAC, >110dB Dynamic Range
- Full Graphic LCD Display

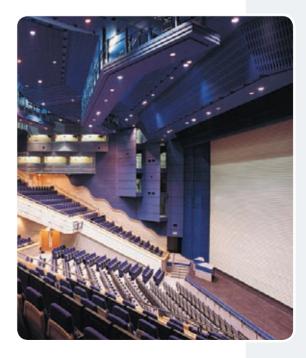
# DriveRack® PA

### **COMPLETE EQUALIZATION AND LOUDSPEAKER CONTROL SYSTEM**

Drive your PA to a whole new level of performance with the DriveRack PA Complete Equalization & Loudspeaker Control System. The DriveRack PA represents a complete integration of the key elements that help ensure optimal loudspeaker system management in PA-specific applications. Capitalizing on the legendary 480 DriveRack technology, the DriveRack PA is able to provide its user with top-tier, pro-level loudspeaker management specifications, yet still remain appealing to the budget-conscious audiophile who requires a tried and true utilitarian workhorse. With its all-inclusive, no-compromise design, the DriveRack PA has been systematically developed and designed to grow with your system needs for years to come by providing state-of-the-art signal processing, while utilizing a simple and intuitive user interface. The inputs combine two independent channels of processing power with a linkable 28-Band Graphic equalizer, industry-standard dbx stereo compressor module, patented Advanced Feedback Suppression and the I20A Subharmonic Synthesizer. The outputs include six channels with parametric EQs, and Peak Plus™ limiters (which are used to provide protection against speaker blowouts) and alignment delay. These features, combined with the Wizard setup system, also include JBL® speaker tunings and Crown® Power Amp settings and represent a methodical design that is guaranteed to deliver optimal, all-inclusive processing in a completely scalable system.



The optional RTA-M real time audio analyzing mic is the perfect accessory tool for the DriveRack PA and 260. Used in conjunction with the System Setup Wizard, the RTA-M is ideal for optimizing the sound quality of even the most difficult of acoustic environments.











# ZonePRO 1260 ZonePRO 1261

### COMPLETE EQUALIZATION AND LOUDSPEAKER CONTROL SYSTEM

With 12 inputs and 6 outputs and Ethernet control the dbx ZonePRO 1260 and 1261 are the newest members of the ZonePRO family providing a complete suite of signal processing and control for Commercial Audio applications.

Designed to offer superior system sonic performance and flexibility, the 1260/1261 deliver the highest quality tools available. Input and output connectors were chosen for their standard usage and reliability. The ZonePRO products offer Euroblock connectors for balanced signals and RCA connectors for interfacing with consumer equipment often used in commercial applications; there is also a simple analog input buss that allows inputs to be sent from one unit to the next for unit and job scalability. The 1260 and 1261 provide every necessary processing tool, from the input processing like gain control and EQ available on all inputs to highly sophisticated and specific functions such as selectable paging microphone processing including Gating, De-Essing, Auto Gain Control, Compression and Feedback Suppression. The heart of the ZonePRO products is the Routing module that provides of course Primary Source Selection, but also Source Ducking for Paging and Priority Override. The outputs also offer a wealth of processing designed for commercial applications like our AutoWarmth® function - co-developed with JBL to provide natural low frequency extension at any signal level. Each output also offers EQ, Bandpass and Crossover filters, Limiting and Delay for system optimization. With the ZonePRO every tool is at your disposal to maximize the response of your system.

Beyond processing, the ZonePRO products offer multiple forms of control to further extend the versatility of your system. Control options include easy-to-use wall panel Zone Controllers for standard end-user functions - like source select and volume control – and advanced system control utilizing a built-in Real Time Clock that can provide programmable system changes throughout the day or week. For system setup and monitoring the ZonePRO Designer software provides an intuitive interface and a speedy setup Wizard for configuring and editing all system parameters. The addition of Ethernet control means that not only will it work with standard network equipment, but it can also be accessed from remote dialup locations or from wireless access points.

The ZonePRO 1260 and 1261 will take your Commercial Audio system to the next level with advanced processing, versatility and control.

- Advanced Feedback Suppression (AFS™)
- Autowarmth®
- Auto Gain Control
- Compression
- Limiting
- Noise Gating
- Notch Filtering
- Bandpass and Crossover Filters
- Parametric EQ
- Security Lockout
- Wall Panel Control
- RS-232 Control
- Windows® 2000 and XP GUI
- Ethernet Control
- IEC, UL and CSA Approvals





### **ZONEPRO**<sup>™</sup>



# ZonePRO<sup>™</sup> 640 ZonePRO<sup>™</sup> 641

### **DIGITAL ZONE PROCESSORS**

I feedback

The dbx ZonePRO 640 and 641 products were designed to provide flexible programmable zone processing for Background Music and Paging applications.

With 6 inputs and 4 outputs the dbx
ZonePRO 640 and 641 provide flexible signal routing, powerful DSP processing and multiple control interfaces for Commercial Audio applications.

Designed to offer superior system sonic performance and flexibility, the 640/641 deliver the highest quality tools available. Input and output connectors were chosen for their standard usage and reliability. The ZonePRO products offer Euroblock connectors for balanced signals and RCA connectors for interfacing with consumer equipment often used in commercial applications; there is also a simple analog input buss that allows inputs to be sent from one unit to the next for unit and job scalability. The 640 and 641 provide every necessary processing tool, from the input

processing like gain control and EQ available on all inputs to highly sophisticated and specific functions such as selectable paging microphone processing including Gating, De-Essing, Auto Gain Control, Compression and Feedback Suppression. The heart of the ZonePRO products is the Routing module that provides of course Primary Source Selection, but also Source Ducking for Paging and Priority Override. The outputs also offer a wealth of processing designed for commercial applications like our AutoWarmth® function - co-developed with JBL to provide natural low frequency extension at any signal level. Each output also offers EQ, Bandpass and Crossover filters, Limiting and Delay for system optimization. With the ZonePRO every tool is at your disposal to maximize the response of your system.

Beyond processing, the ZonePRO products offer multiple forms of control to further extend the versatility of your system. Control options

include easy-to-use wall panel Zone Controllers for standard end-user functions – like source select and volume control – and advanced system control including a built-in Real Time Clock that can provide programmable system changes throughout the day or week. For system setup and monitoring the ZonePRO Designer software provides an intuitive interface and a speedy setup Wizard for configuring and editing all system parameters.

The ZonePRO 640 and 641 will take your Commercial Audio system to the next level with advanced processing, versatility and control.



- Autowarmth®
- Auto Gain Control
- Compression
- Limiting
- Noise Gating
- Notch Filtering
- Bandpass and Crossover Filters
- Parametric EQ
- Security Lockout
- Wall Panel Control
- RS-232 Control
- Windows® 2000 and XP GUI
- IEC, UL and CSA Approvals





# BLUE/PURPLE SERIES | QUANTUM ||



# 160 SL

### **COMPRESSOR/LIMITER**

The I 60SL combines the best features of all the great dbx® compressors, past and present, and gives you more versatile performance than ever before. In addition to having the auto attack and release as well as the hard knee threshold characteristics of the classic dbx 160, the 160SL now offers AutoVelocity manual mode, in addition to our classic OverEasy® mode. dbx AutoVelocity technology allows you to find the exact attack and release effect you are looking for. Still on board is the venerable dbx Auto mode. Now you can set your maximum preferred settings in manual mode, and let the 160SL do the rest for you. The dbx 160SL features dual proprietary V8 VCA modules. This state-of-the-art implementation of dbx's original Blackmer decilinear VCA boasts an unheard-of I 27dB dynamic range and ultra-low distortion. Encased in a specially designed aluminum-zinc housing for shielding and thermal characteristics, the V8 maintains its superior performance even in the harshest environments. The I 60SL offers a plethora of features which include: variable attack and release controls, as well as dbx's latest limiting algorithm PeakStopPlus™, precision 0.1% and 1% resistors, gold-palladium-nickel contacts, Jensen® transformers, gold plated Neutrik® XLRs, and rare earth magnet signal switching relays with gold contacts, housed in a hermetically-sealed nitrogen environment and mounted on military-grade glass epoxy circuit boards. The end result is the most technologically advanced compressor in the world,

- Patent-pending AutoVelocity<sup>™</sup> circuit
- 127dB of Dynamic Range
- High-Drive output transformer circuit drives 1000 ft. of Belden® cable at +30dBu with only .007% THD
- Switchable between Hard-knee and OverEasy® Compression
- Program-dependent "Auto," AutoVelocity™ or fully variable attack and release manual modes



# 162 SL

### COMPRESSOR/LIMITER

The 162SL combines the best features of all the great dbx compressors, past and present, and gives you more versatile performance than ever before. In addition to having the auto attack and release, and the hard knee threshold characteristics of the classic dbx 160, the 162SL offers AutoVelocity™ manual mode, along with our classic dbx Over-Easy® mode, made standard by the legendary dbx 165A. All of the 160SL's features, including variable attack and release controls and dbx's latest limiting algorithm PeakStopPlus™, are included in the 162SL. Its state-of-the-art implementation of dbx's original

Blackmer decilinear VCA boasts an unheard of dynamic range and ultra-low distortion seen only previously in the Blue 160SL. With sonic clarity designed for the studio, the 162SL maintains its superior performance in harsh environment. Like its big brother, the 162SL takes full advantage of the best parts available and dbx's advanced manufacturing, including Jensen® transformers on each output standard. Following in the footsteps of the Blue Series® 160SL with the Purple Series 162SL, dbx continues to create to the most technologically advanced compressors in the world.

- Super fast manual attack and release
- High-Drive Jensen® output transformers
- Hard-knee/OverEasy® switchable
- Ultra-low distortion compression for unheard of clarity even under extreme gain reduction
- Program-dependent "Auto,"
   Patent-pending AutoVelocity™
   Manual, or fully variable attack and release modes



### BLUE/PURPLE SERIES | QUANTUM ||



# 96kHz, 24 bit A/D, D/A, and Digital I/O on AES/EBU or S/PDIF

- 48 bit internal signal path
- Patented TYPE IV® A/D Conversion System with TSE TM
- 4-band stereo compressor-gate-limiter
- 5 band EQ Hi and Lo shelves,
   3-band fully-parametric and MS EQ
- Normalizer
- Stereo adjust
- Sync input/output
- Selectable Output dither from 8, 16, 20, to 24 bits
- Sample rate conversion full Up/Down

# Quantum II®

### **DIGITAL MULTI-BAND PROCESSOR**

The engineers at dbx<sup>®</sup> designed the Quantum II<sup>™</sup> to be the standard by which all digital mastering processors are measured. With our patented Type IV® Conversion System and TSE™ Tape Saturation Emulation circuitry, the Quantum II allows your signal to retain its analog warmth and character, while delivering the sonic clarity that today's digital environments demand. Other features include four-band Gating, Compression, and Limiting, or MS Gating, Compression, and Limiting. A five-band Parametric EQ is available to change the tonal character of the signal and the EQ can be placed either pre- or post-dynamics processing. The EQ can also be set up as an MS EQ allowing the user to manipulate the character of the Center information (Left + Right) and the Side information (Left - Right). The Quantum II is capable of dual mono or true stereo operation with RMS Power Summing™.

Also available on the Quantum  $II^\infty$  is a Normalizer with flexible gain optimization, stereo adjust, and an output Dither and Noise Shaping option which allows user assigned noise shaping and output dither to 8, 16, 20 or 24 bits. The Quantum II features sample rate conversion and low-jitter synchronized inputs and outputs that use dbx's proprietary clock integrated circuits.

In addition to providing a bevy of state-ofthe-art features and specifications, the Quantum II allows you to control the aforementioned items via the included PC GUI interface. This feature in turn allows you to keep your focus on the project at hand, while keeping your hands off of the unit itself.

Whether you are working with DAT, DAW, or analog, the Quantum II provides all the tools that you need to make the most of your mixes.

# 704X

### DIGITAL OUTPUT CARD



The 704X digital output card allows the dbx Blue Series® processors to take advantage of dbx's amazing Type IV $^{\text{TM}}$  Conversion System. Its features include 44.1 kHz, 48kHz, 88.2kHz, and 96kHz sample rates; 16-, 20-, or 24-bit word length;TPDF or SNR2 noise shaping, dithering at 16 or 20 bits; synchronized outputs with low-jitter, phase-locked loops; selectable noise-shaping algorithms; and gold-plated AES/EBU and S/PDIF output jacks.

- Sample rates: 44.1 kHz, 48kHz, 88.2kHz, or 96kHz
- Dither outputs to 16, 20, or 24 bits using TPDF or SNR2 algorithms
- 48 bit internal signal path
- TYPE IV® A/D Conversion System

- Sync input/output
- 2 user-selectable noise shape algorithms
- Gold-plated Neutrik® AES/EBU and S/PDIF connectors
- For use with dbx 160S, 160SL or 786



# DIGITAL GRAPHIC EQUALIZERS W/ AFS®

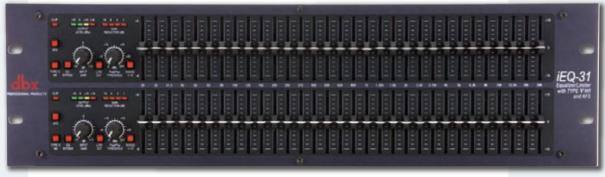
With an EQ heritage that has produced countless industry standard patents and dates back more than 30 years, the dbx® iEQs $^{TM}$  easily live up to the dbx legacy of uncompromising sonic integrity. In addition to unsurpassed Equalization specs, the iEQ also offers the built-in necessities which include patented AFS™ Advanced Feedback Suppression (which removes unwanted feedback at the push of a button), Type V<sup>™</sup> Noise Reduction and PeakStopPlus <sup>™</sup> limiting. The iEQ-Series represents a major step forward in the performance of graphic equalizers. From its amazing 10Hz to 22kHz frequency response, to its 110dB dynamic range the iEQs offer out of this world specifications with a down to earth price point. Sure to find a home in the studio, on tour and with installed sound venues, the iEQs are destined to take their rightful place in the lineage of great dbx signal processors that are the professionals' choice.

# **iEQ-15** DUAL 15-BAND DIGITAL GRAPHIC EQ/LIMITER



- Advanced Feedback Suppression (AFS™)
- Type V<sup>™</sup> Noise Reduction
- PeakStopPlus<sup>™</sup> Limiting
- 2/3-octave Constant Q frequency bands
- Switchable boost/cut ranges of ±6 or ±15dB
- 18 dB per octave 40Hz low-cut filter
- ±12dB input gain range ■ XLR, TRS and Euroblock Inputs and
- Outputs ■ Internal Toroidal Transformer
- Frequency Response of IOHz to 22kHz
- Dynamic range of greater than 113dB
- User Power Up Features
- Relay Bypass for Power Failure System

# **iEQ-3** DUAL 31-BAND DIGITAL GRAPHIC EQ/LIMITER



- Type V<sup>™</sup> Noise Reduction
- PeakStopPlus<sup>™</sup> Limiting
- 1/3-octave Constant Q frequency bands
- Switchable boost/cut ranges of ±6 or ±15dB
- Advanced Feedback Suppression (AFS™)
   18 dB per octave 40Hz low-cut filter
  - ±12dB input gain range
  - XLR, TRS and Euroblock Inputs and Outputs
  - Internal Toroidal Transformer
- Frequency Response of 10Hz to 22kHz
- Dynamic range of greater than 113dB
- User Power Up Features
- Relay Bypass for Power Failure System Protection



# 20 Series

**GRAPHIC EQUALIZERS** 

The 20 Series can significantly improve the noise specs for almost any sound system.

Since their introduction, the 20 Series equalizers have become crucial links in the sound systems of countless professionals all over the world. From a value perspective, the 20 Series EQs offer an unequalled feature set. The crowning feature of each model in the 20 Series is our patented Type III<sup>TM</sup> Noise Reduction, which enables you to increase signal-to-noise ratios by up to 20dB.With Type III<sup>TM</sup>, the 20 Series can significantly improve the noise specs for almost any sound system.Add our patented PeakPlus<sup>TM</sup> limiter topology; XLR, ¼", and Barrier strip inputs and outputs; durable 45mm nylon sliders; a +12dB input gain range; and informative, four-step LED ladders to the mix and you've got three powerful tools that will let you use your system with confidence.

# 2215 DUAL 15-BAND GRAPHIC EQUALIZER



# 223 DUAL 31-BAND GRAPHIC EQUALIZER



# 203 SINGLE 31-BAND GRAPHIC EQUALIZER



- Revolutionary instant encode/decode
   Type III® Noise Reduction in-circuit at the push of a button. Increases S/N ratio by up to 20dB
- Patent-pending PeakPlus™ Limiter threshold range from 0dBu to +24dBu (off)
- can transparently tame the wildest hits or the subtlest nuances of any signal
- An extremely high quality EQ, patented Type III® Noise Reduction, and the elegant new PeakPlus<sup>™</sup> Limiter all in one great sounding box
- Four segment LED bar graphs for BOTH Gain Reduction AND Output Level offers the most comprehensive visual feedback available
- Status LEDs offer visual feedback for all settings on the front panel

# 12 Series

# GRAPHIC EQUALIZERS

The dbx® 12 Series Equalizers were designed to make versatile, pro-quality sound available to users of all levels, while offering the simplicity of straightforward controls and providing years of maintenance-free operation in any application. The magnetically-isolated transformer, electronically balanced inputs

and servo balanced outputs, RF-filtered inputs and outputs, and power-off hard-wire relay bypass with 2 second power up delay were steps our engineers took to ensure compatibility for all installations. Only the best components were utilized, yielding a 10Hz to 50kHz frequency response, greater than 90dB SNR (ref +4dBu), less than 0.005% THD +Noise (1kHz at +4dBu), and interchannel crosstalk of less than -80dB from 20Hz to 20kHz. All this attention to detail is contained in a sturdy steel/aluminum chassis.



# 1215 DUAL 15-BAND GRAPHIC EQUALIZER



- Switchable boost/cut ranges of ±6 or ±15 dB
- Electronically balanced/unbalanced inputs
- Servo balanced/unbalanced inputs
- RF filtered inputs and outputs
- XLR, Barrier Strip, and 1/4" TRS connectors
- -12dB/+12dB input gain range
- 18dB/octave 40Hz Bessel low-cut filter
- Chassis/signal ground lift capability
- Internal power supply transformer
- Power-off hardwire relay bypass with 2-second power-up delay

# 123 DUAL 31-BAND GRAPHIC EQUALIZER



- Switchable boost/cut ranges of ±6 or ±15 dB
- Electronically balanced/unbalanced inputs
- Servo balanced/unbalanced outputs
- RF filtered inputs and outputs
- XLR, Barrier Strip, and 1/4" TRS connectors
- -12dB/+12dB input gain range
- 18dB/octave 40Hz Bessel low-cut filter
- Chassis/signal ground lift capability
- Internal power supply transformer
- Power-off hardwire relay bypass with 2-second power-up delay



### E O s

# 2 Series

### **GRAPHIC EQUALIZERS**

The 2 Series represents a major step forward in the performance of entry-level equalizers.

The dbx $^{\otimes}$  2 Series equalizers were designed to make versatile, pro-quality sound available to users of all levels, while offering the simplicity of straightforward controls. The 2 Series represents a major step forward in the performance of entry-level graphic equalizers. From its amazing 10Hz to 50kHz frequency response, to its 108dB dynamic range, the 2 Series offers great specifications with, a down-to-earth price point. Sure to find a home in the studio, on tour and with installed sound venues, the 2 Series is destined to take its rightful place in the lineage of great dbx signal processors that are the professional's choice in signal processing. With such affordable quality, there's no longer any excuse for compromising your sound with a lesser EQ than one from dbx.

# 131 SINGLE 31-BAND GRAPHIC EQUALIZER



- Single 31-band, I/3-octave Constant Q frequency bands
- Switchable boost/cut ranges of ±6 or ±12dB
- 12dB per octave, 3dB down @ 50Hz low-cut filter
- Front panel bypass switch
- ±12 dB input gain range
- 4-segment LED ladders for monitoring output levels
- XLR and TRS Inputs and Outputs
- Internal Toroidal Transformer
- Frequency Repsonse of <10Hz to >50kHz
- Dynamic range of greater than 108dB

# 215 DUAL 15-BAND GRAPHIC EQUALIZER



- Two 31-band, 1/3-octave Constant Q frequency bands
- Switchable boost/cut ranges of ±6 or ±12 dB
- 12dB per octave 40Hz low-cut filter
- Front panel bypass switch
- ±12 dB input gain range
- 4-segment LED ladders for monitoring output levels
- XLR and TRS Inputs and Outputs
- Internal Toroidal Transformer
- Frequency Response of <10Hz to >50kHz
- Dynamic range of greater than 108dB

# 23 I DUAL 31-BAND GRAPHIC EQUALIZER





- Two 31-band, 1/3-octave Constant Q frequency bands
- Switchable boost/cut ranges of ±6 or ±12 dB
- 12dB per octave 40Hz low-cut filter
- Front panel bypass switch
- ±12 dB input gain range
- 4-segment LED ladders for monitoring output levels
- XLR and TRS Inpts and Outputs
- Internal Toroidal Transformer
- Frequency Repsonse of <10Hz to >50kHz
- Dynamic range of greater than 108dB



# 386

### MIC PRE

The Silver Series 386 dual channel tube mic preamp puts the best of both worlds into one affordable package by combining the warmth of the irreplaceable vacuum tube with the proprietary dbx® Type IV® conversion system. The 386 boasts many of the same features as other products in the Silver Series, such as +48V phantom power, phase invert switch, and low-cut filtering. In addition, the 386 also offers up to 96kHz, 24-Bit digital output capabilities in both AES/EBU, and S/PDIF formats as standard features.

- Two channel tube microphone preamplifier
- Selectable 96kHz, 88.2kHz, 48kHz, or 44.1kHz sampling rate
- 24, 20, and 16-bit wordlengths
- Selectable dither and noise shaping
- AES/EBU and S/PDIF digital outputs

- Word clock sync input and output
- Separate analog and digital output control
- Type IV<sup>TM</sup> conversion system
- 60dB of gain and +/- I5dB of output gain
- Selectable mic/line switch
- 48 volt phantom power
- 20dB pad
- 75Hz low cut filter
- Phase reverse
- Segment LED analog/digital



Digital outputs on the 386 and 376 are standard features



# 376

### TUBE PREAMP CHANNEL STRIP WITH DIGITAL OUT

The 376 has taken the essential tools needed for recording and put them all on a single channel strip. The mic/line section on the 376 provides a 12AU7 vacuum tube and offers +48V phantom power, a phase invert switch, a high impedance ¼" instrument input, 20 dB pad, and low-cut filtering. The processing section offers a 3-Band parametric EQ, a classic dbx Compressor, and De-Esser. The 376 also offers digital output capabilities in both AES/EBU, and S/PDIF formats with selectable sampling rates including 44.1 kHz, 48 kHz, 88.2 kHz, or 96 kHz with selectable dithering and noise shaping as standard features. The LED meters provide a clear and concise visual of the signal processing at a glance. We think you'll agree that the 376 lives up to the uncompromising standards of dbx Professional Products.

- Tube microphone pre-amp
- 200V tube plate voltage
- Selectable mic/line switch
- +48 Volt phantom power
- 3-Band Parametric EQ
- Compressor

- De-Esser
- Front panel instrument input
- Drive meter LEDs
- Threshold and De-Esser meters
- 8 segment analog or digital meter
- Type IV<sup>TM</sup> conversion system
- Selectable sampling rate (96, 88.2, 48, 44.1 kHz)
- 24, 20 and 16 bit wordlengths
- AES/EBU and S/PDIF digital outputs
- Selectable dither and noise-shaping algorithms
- Word clock sync input and output



## DYNAMICS

# 10 Series

### 1066 COMPRESSOR/LIMITER/GATE



Whether you're looking for "heavy" compression or subtle gain leveling, the 1066 stereo compressor/limiter/gate with selectable hard knee or OverEasy® compression is ideal. The 1066's compressor section allows you to set attack and release times manually or automatically using our convenient Auto Mode. In addition, our famous Contour switch allows you to smoothly compress entire mixes while preventing low frequencies from punching holes in the overall mix.

The 1066's gate section enables you to clean up unwanted frequencies or mic bleed using its frequency-dependent gain control and the Side Chain External button. With the Side Chain Monitor button and an equalizer, you can select which frequencies will trigger the gate. For overall speaker protection, our innovative PeakStopPlus™ technology prevents unwanted transients from blowing your drivers and minimizes the distortion common to many other "hard" limiters.

- Selectable auto (classic dbx<sup>®</sup>) or manual (variable Attack and Release) compression
- Contour switch removes unwanted low frequency information from detector circuit
- Selectable Overeasy® or Hard Knee compression modes
- PeakStopPlus™ limiting for setting maximum allowable level with minimal distortion
- SC Ext and SC Mon for setting up and monitoring external devices for gating function
- True differentially balanced gold-plated XLR and 1/4" inputs and outputs
- True RMS level detection
- Precision metering of input level, output level, and gain reduction
- True stereo or dual mono operation
- Switchable +4dBu or -10dBV operation per channel

# 1046 QUAD COMPRESSOR/LIMITER



Each of the 1046's four channels allows you to individually select between our classic OverEasy® or hard knee compression, as well as connect each channel for separate purposes. Additionally, our PeakStop-Plus™ circuitry is the most comprehensive limiting technology available. For easy interfacing with other devices, each of the 1046's channels also utilizes balanced, gold-plated XLR and ¼" inputs and outputs and switchable +4dBu or -10dBV operating levels. The 1046 incorporates our standard-setting designs, state-of-the-art manufacturing techniques, and of course, our highly sought-after sound quality.

- Four independent channels of operation, stereo linkable in two pairs
- PeakStopPlus<sup>™</sup> limiting control for setting maximum allowable level regardless of compressor settings
- Independent Threshold and Release controls
- Switchable OverEasy® or Hard Knee compression
- Classic dbx® compression
- Differentially balanced gold-plated XLR and 1/4" inputs and outputs
- True RMS level detection
- Precision metering of input level, output level, and gain reduction
- Dual True stereo or quad mono operation
- Switchable +4dBu or -10dBV operation per channel



## 1074 QUAD GATE



The 1074 Quad Gate is the perfect companion to the 1066 and 1046. The 1074 offers 4 channels of gating with threshold, depth and release controls on each channel. The 1074, like the rest of the products in dbx's 10 Series, is based on the legendary dbx V2 VCA and offers XLR inputs and outputs, and  $\frac{1}{4}$ " side-chain input. In addition to an external key input per channel, the 1074 also has an internal filter that can be independently activated and controlled on a channel per channel basis. This filter allows the 1074 to not only clean up tracks but gives you frequency selective control on each gate, to open exactly when you want it to.

- Four independent channels of gating
- Independent key filtering
- Independent Threshold and Release controls
- Differentially balanced gold-plated XLR and 1/4" inputs and outputs
- True RMS level detection
- Stereo Coupling mode
- Switchable +4dBu or -10dBv operation per channel



# 160A

### COMPRESSOR/LIMITER

The I60A offers such time-tested features as switchable OverEasy® and hard knee compression, extremely wide threshold ranges, and controls for ratio and output gain.

The I60A also includes true RMS level detection, providing the most transparent dynamics processing available–from smooth, subtle compression to "brick wall" peak limiting. Its electronically balanced output stage is an outstanding driver for long cable runs (an output transformer is optional). With its unique "INFINITY +" inverse-compression mode, the I60A actually decreases the audio output level below unity gain when the input exceeds threshold. You can even stereo-couple two I60A's to process a stereo mix without shifting the left/right image. The dbx I60A is truly the standard for dynamics processing.

- OverEasy® or classic hard knee compression with dbx's® ultra-musical program dependent attack and release times
- Compression ratio variable from 1:1 through infinity :1 to negative compression
- Precision dual RMS LED display monitors input or putput and gain reduction over a wide range and calibrates for different operating levels
- Over 60dB of gain reduction available
- Exclusive Infinity+ compression allows negative compression
- Independent balanced and unbalanced outputs can drive 600 loads to +24dBm simultaneously. New floating balanced output stage drives any load
- Optional output transformer capable
- Strappable with another 160A for true RMS stereo summing operation



## DYNAMICS



# 166XL

### COMPRESSOR/LIMITER/GATE

With auto attack and release controls and separate precision LED displays for gain reduction, compression threshold, and gate threshold, the 166XL allows for quick and accurate setup. Using our True RMS Power Summing™ feature, the Stereo Couple mode provides you with a rock solid stereo image The 166XL also makes advanced applications a breeze with full sidechain functionality, the ability to use either hard knee or OverEasy® compression algorithms, and the venerable PeakStop® limiter. The dbx® 166XL is the industry standard compressor/gate at a cost within everyone's reach.

- Goof proof operation to smooth uneven levels, add sustain to guitars, fatten drums or tighten up mixes
- New gate timing algorithms ensure the smoothest release characteristics
- Program-adaptive expander/gates
- Great sounding dynamics control for any type of program material
- Separate precision LED displays for gain reduction, compression threshold and gate threshold allow quick, accurate setup
- Stereo or dual-mode operation
- Balanced inputs and outputs on 1/4"
   TRS and XLR
- Side Chain insert
- Classic dbx° "Auto" mode
- dbx PeakStop® Limiter



# 266XL

### COMPRESSOR/GATE

The 266XL delivers everything from mellow "leveling" to aggressive peak limiting.

The 266XL puts pleasing compression and smooth gating within reach of everyone. The classic dbx® compression delivers everything from mellow "leveling," to aggressive peak limiting. In addition, the 266XL's AutoDynamic™ circuitry continuously adjusts attack and release settings in real time in order to optimally match program material. The advanced gating circuitry in the 266XL uses a program-dependent timing algorithm to produce ultra-smooth release characteristics—even with complex signals. Thanks to the dynamic range of the dbx®VCA, the 266XL can provide reliable gating for any circumstance.

The 266XL also includes separate LED ladders measuring gain reduction, compression threshold, and gate threshold, making the 266XL intuitive and easy to use.

- Goof proof operation to smooth uneven levels, add sustain to guitars, fatten drums or tighten up mixes
- New gate timing algorithms ensure the smoothest release characteristics
- Program-adaptive expander/gates
- Great sounding dynamics control for any type of program material
- Separate precision LED displays for gain reduction, compression threshold and gate threshold allow quick, accurate setup
- Stereo or dual-mode operation
- Balanced inputs and outputs on I/4" TRS and XLR
- Side Chain insert
- Classic dbx° "Auto" mode



05

# 223/234 Crossovers

Crossovers may do nothing more than direct frequencies, but the thought that went into the 223 and 234 is what really elevates the dbx® crossovers above the rest. The 223 and 234 both feature differentially balanced TRS ¼" inputs and outputs. To prevent accidental changes of critical settings during performance (which could be disastrous), several of the 223 and 234's controls are located on their rear panels. On the 223, the first of these selects between stereo two-way or mono three-way operation, while on the 234 it selects between stereo two-way, stereo three-way, or mono four-way operation (the selected mode is always visible via two front panel LEDs). Also located on the back panels are switches that allow you to individually select crossover frequency ranges for both channels (again, the front panels feature LEDs to indicate when the back panel x10 switch is activated). The rear panels also allow you to mono-sum the low frequency outs. Both crossovers feature Linkwitz-Riley 24dB/octave filters-the professional standard. Each of the units' channels has a +12dB input gain control and a recessed 40 Hz low-cut (high-pass) filter for removing low frequency rumble. Both the low and high outputs on each channel have phase reverse switches (reconfigurable to operate as mute switches) and gain controls ranging from  $\infty$  to +6 dB, allowing level matching and muting of individual outputs. The 223 and 234 give you great performance, the features you expect from professional crossovers, and the reassurance that you're buying from the company that has been making the world's finest audio gear for over 30 years.

### 223XL and 234XL XLR versions

To provide you with even more flexibility, the 223 and 234 are also available in the form of the 223XL and 234XL which offer balanced XLR input and output connectors.

# 223/223 XL QUAD COMPRESSOR/LIMITER



- TRS differentially balanced ins and outs
- Mode switch for stereo 2-way or mono 3-way operation
- Stereo/Mono status LEDs indicate the selected mode
- Low frequency summed (subwoofer)
- x10 range switch on both channels
- 40Hz low-cut (high-pass) filter both channels
- Phase reverse switch on all outputs
- Individual level controls on all outputs
- 24dB per octave Linkwitz-Riley filters (the professional standard)
- dbx 2 year parts and labor as
- CSA NRTL/C approved
- CE compliant

# 234/234 XL QUAD COMPRESSOR/LIMITER



- TRS differentially balanced ins and outs ■ Mode switches for mono 4-way or
- stereo 2-way/3-way operation
- Low frequency summed (subwoofer)
- x10 range switch on both channels
- 40Hz low-cut (high-pass) filter both channels
- Phase reverse switch on all outputs
- Individual level controls on all band
- 24dB per octave Linkwitz-Riley filters (the professional standard)
- Stereo/Mono status LEDs indicate the selected mode
- dbx 2 year parts and labor as
- CSA NRTL/C approved
- CE compliant





### OTHER PRODUCTS



# From now on

is positive.

the only feedback

you'll be getting

# **AFS**<sup>™</sup> 224

### ADVANCED FEEDBACK SUPPRESSION PROCESSOR

The AFS™ 224 Advanced Feedback Suppression processor has been designed to provide state-of-the-art feedback elimination processing, while maintaining a simple and intuitive control interface. The AFS 224 utilizes a no-nonsense user interface providing all the processing and control necessary for both installation and live use while the AFS is an absolute must for any live sound application. Ten and twelve filter-per-channel feedback elimination processors have become the de facto standard, but the engineering staff at dbx® have never been content residing in the neighborhood of the status quo. So, to raise the bar once again, they developed a dedicated feedback suppression processor that offers up to 24 filters per channel with filter Qs as narrow 1/80 of an octave. With such narrow filter Qs, the AFS 224 is able to remove unwanted feedback, while preserving the sonic integrity with precision and accuracy. To achieve these staggering numbers, dbx utilized their patented AFS technology that had previously only been available in the upper echelon of dbx products and made it available in this stand-alone processor. In addition to the plethora of feedback suppression filters available, the AFS 224 also offers selectable modes, live filter lift, and multiple types of filtration.

- dbx's Patented (Advanced Feedback Suppression) AFS<sup>TM</sup> technology
- 24 Programmable Filters per Channel
- Stereo or Dual Independent Channel Processing
- Live and Fixed Filter Modes
- Selectable Filter Lift Times
- Application-specific filter types include Speech and Music Low, Med and High
- Input channel Metering
- = 24 LED per Channel Filter Metering
- XLR and TRS Inputs and Outputs



# **120A**

### SUBHARMONIC SYNTHESIZER

Unlike other attempts at bass synthesis, the 120A's patented subharmonic synthesis process produces smooth, musical low frequencies that don't interfere with mid- or high-band information—even at maximum levels. The result is unmatched low-end punch at levels that won't destroy your system. In fact, the 120A is optimized to allow audio professionals to get the most out of their high-performance, low frequency speaker systems, and includes both a subwoofer output (with its own level control) and main outputs that can be configured as either full-range (including synthesis) or high frequency-only.

- Individual control for two ranges of subharmonic frequencies
- Separate Low Frequency Boost Circuit
- Separate Subwoofer Output
- 1/4" Balanced inputs and outputs
- RCA Input Connectors
- Front panel LEDs that show crossover status and synthesis activity
- Patented circuitry ensures that mid and high frequencies are not affected
- Built-in crossover with choice of 80Hz or 120Hz crossover point
- Enhance bass audio material for use in a variety of professional applications such as: Nightclub and dance mixing; DJ Mixing; Theater and Film Sound; Music Recording: Live Music Performance; Broadcasting





### OTHER PRODUCTS



# 286A

### **MIC PREAMP PROCESSOR**

The 286A is a complete "channel strip" mic preamp/processor featuring OverEasy® compression, de-essing, enhancing, expanding, and gating all in an incredibly pure signal path. In addition, the 286A boasts a wide-ranging input gain control (+10 to +60dB), switchable +48V phantom power, and an 80Hz high-pass filter. Not to mention that its preamp and five processors can be used independently or in any combination. Its floating, balanced XLR mic input accepts balanced or unbalanced inputs, a ¼"TRS phone jack accepts both balanced and unbalanced line signals.

- dbx® standard internal power supply
- Expanded meter to show heavy De-Essing +48VDC Phantom Power

- Frequency control for De-Esser
- Above/Below threshold indicator for gate Precision detented controls



# **PB-48**

### PATCH BAY

The PB-48 patchbay features 48 front panel and 48 rear panel patch points, with 24 user-adjusable board assemblies that can be configured-without soldering or wire cutting-for half-normalled or de-normalled operation. Rugged and noise-free, the PB-48 is designed to serve all your patchbay needs. Whether you want clear and easy access to your mixer and studio gear, reduced wear on your equipment's jacks, or the ability to quickly re-route devices within your setup, the PB-48's balanced TRS and unbalanced TS ¼" plugs pave the way.





### OTHER PRODUCTS



# IEM™

### **IN-EAR MONITOR/PROCESSOR**

The IEM™ In-Ear Monitor Processor is the ideal tool for fine-tuning mix monitoring for in-ear monitoring devices. Not only does the IEM provide the legendary dbx effects in the digital domain, such as 4-band stereo compression, PeakStop™ limiting and 5-band parametric EQ, but the IEM also includes stereo adjust, dbx-patented Type IV™ conversion system, and for good measure, we have even raised the playing field by including custom reverb algorithms using industry-standard Lexicon® reverb technology. The IEM was designed with the simple purpose and vision of enhancing the sonic quality of all in-ear monitor applications, while providing the necessary audio level protection that artists and engineers require. The design team at dbx has achieved this vision by building a unit that offers effects including: 4-band stereo compressor with gating and limiting, 5-Band Parametric EQ, PeakStop™ limiting, and Stereo adjust. Additionally, the IEM has been methodically designed with an intuitive user front panel which provides instant access to all of the effects within the unit at the push of a button. The IEM also provides the user with a large custom display which clearly shows all operational information of the unit in a logical manner. The IEM is a unit that is certain to take In-Ear Monitor processing to the next level.

- Industry-Standard Lexicon® Reverb Algorithms
- 48-bit internal signal path for increased head room and low level resolution
- Patented Type IV<sup>™</sup> A/D Conversion system with TSE
- 4-band stereo compressor and limiter with classic dbx<sup>®</sup> compression
- 5-band EQ Hi and Lo shelves, 3-band fully parametric
- PeakStop™ limiting
- Stereo adjust to control your stereo image
- 4-band crossover with variable slopes

# Zone Controllers

The Zone Controllers use analog DC voltages to provide logic control ranging from Volume and Mute control to Contact Closure Program selection and can be used with SC products, the DriveRack 260 and 220i, and ZonePRO units. Wired with readily available and affordable CAT5 cable with universally accepted RJ-45 connectors, the ZC Zone Controllers offer simple yet elegant solutions to the contractor.



**ZCI**Programmable
Volume Control



**ZC2**Programmable
Volume & Mute



ZC3
Programmable
Selection



Program



ZCBOB
"home-run" or paralle



**ZC6**Programmable
Volume Control



Programmable Push-To-Talk Page Assignment



ZC8
Programmable Volume and Source Select



ZC9 Source Selection



**ZCFIRE**Fire Safety Interface



**05** 

			-								
			4800/4820				-				DriveRack, SC, ZonePRO
Æ	260	442	800/	481	482	220i	SC 64	SC 32	640	1260	·
2(1)	2(1)	4(2)	4(2)	4(2)	4(2)	2	64	32	6 (4)	12	INPUTS Number of Inputs (RTA Mic Input)
•	•	•	•		•	•			•		Connectors: Female XLR Connectors. Euroblock
										8	Connectors, RCA
<u>:</u>	•	•	•	:	•	•	•	•	•		Type: Electronically bal/RF filtered Impedance, >40K
							3.5k	3.5k		>50kΩ >25kΩ	Impedance, balanced, Euroblock
	•	٠	•	٠	•	•					Max Input Level: Hardware selectable for +30, +22, +14 dBu
							•		•	•	Max Input Line Level: +20dBu Mic/Line, +12dBu RCA  Max Input Line Level: +22dBu
		•	•	٠	•		•	٠	•	•	CMRR: >40dB typical, >55 dB at 1kHz CMRR: >45dB
						Ť		0-48dB	30-60dB	30-60dB	Mic Pre gain
_			•		•		•	•	•	•	Mic EIN: <118dB, 22Hz-22kHz, 150kΩ Input Gain Range RTA: 10dB to 70dB w/60dB typical
I5V DC	I5V DC		48V DC		48V DC		48V	48V	15V	15V	RTA Mic Phantom Voltage: OUTPUTS
6	6	4	8	8	8	2	64	32	4	6	Number of Outputs
•	•	•	•		•	•	•		•	•	Connectors: XLR Connectors: Euroblock
•	•	•	•	•	•	•	•	•	•	•	Type: Electronically balanced, RF filtered
120Ω	120Ω	120Ω	•	120Ω	120Ω	120Ω				120/60	Maximum Output Level: +25.5 dBu into $IkΩ$ , +22 dBu into $600Ω$
•							•	•	•	•	Maximum Output Level: +20dBu Maximum Output Level: +22dBu
											A/D PERFORMANCE
110	114	115	115	115	115	114	113	113	113	113	Type: dbx Type IV™ Conversion System  Dynamic Range: (dB) A-weighted
107	112	112	112		112	112	110	110	110	110	Dynamic Range: (dB) Unweighted Type IV dynamic Range: >119 dB,A-weighted, 22kHz,BW >117 dB, unweighted, 22kHz BW
		48kHz								48kHz	Sample Rate
24	24	24	24	24	24	24	24	24	24	24	A/D Wordlength: (bit) D/A PERFORMANCE
112	112	115		115	115	112	113		112	112	Dynamic Range: (dB) A-weighted Dynamic Range: (dB) unweighted
48kHz	48kHz	48kHz	48kHz	48kHz	48kHz	48kHz	48kHz	48kHz			Sample Rate
24	24	24	24	24	24	24	24	24			A/D Wordlength: (bit) SYSTEM PERFORMANCE
		48 bits	48 bits	48 bits	48 bits		32 bits	32 bits			Internal Wordlength
							•		•		Dynamic Range: >109 dB A-weighted, >106dB unweighted  Dynamic Range: >110 dB A-weighted, >107dB unweighted
0.002	0.002	0.003	0.003	0.003	0.003	0.002	0.004	0.004	0.003	0.003	THD + Noise: % typical at +4dBu, 1kHz, 0dB input gain Frequency Response: 20Hz - 20kHz, +/-0.5dB
							•	٠	•	•	Interchannel Crosstalk: >80dB typical
_							•	•	0.6 msec	• 0.6 msec	Crossalk input to output: >80dB typical Propagation Delay
20 Pand	20 Pand	31-Band	21 Dand	21 Pand	21 Panel	20 Pand	O Panel	Q Pand			PRE EQ - (Input)  Type: Graphic EQ per input channel, or 9 band PEQ per input channel (5-Band PA,Studio, 260)
• Dalid	• •	• •	•	• •	• •	ZO-Daliu	7-Dalid	7-Ballu			Range: +/-12dB range
			•		•						NOTCH FILTERS  Number: I-5 per input channel not to exceed 10 for all input channels
		•									Number: 4 fixed per channel Number: 6 per input channel
							•	•			Number: 4 per output channel
N/A	configurable	N/A	680	680	680	configurable	5200	5200			PRE DELAY – (Input) Length: ms/channel
10						configurable					POST DELAY (DRIVER ALIGNMENT) – (Output) Length: ms/channel
10	configurable 2.7sec	e 340	170	170	170	2.7sec	5200	5200			TOTAL DELAY TIME
_			•		•						CROSSOVER Type:  x2,  x3,  x4,  x5,  x6, 2x3, 2x4, 2x5, 2x6, 2x7, 2x8, 3x4, 3x5, 3x6, 3x7, 3x8, 4x6, 4x8
•	•	•	•	÷	•						Filter Type: Butterworth, Bessel, or Linkwitz-Riley - Note: PA - offers no bessel
Ŀ	•	Ŀ	Ė	Ŀ							Slope: 6, 12, 18 or 24 dB/octave for Butterworth or Bessel filters 12, 24, 36 or 48 dB/octave for Linkwitz-Riley filters Note: PA - offers only 12 and 24 LR
							•	•			Type: 1x1, 1x2, 1x3, 1x4, 2x2, 2x4, 2x6 and 2x8 - Bessel 6, 12, 18 and 24 dB/Octave Butterworth 6, 12, 18 and 24 dB/Octave - Linkwitz-Riley 12 and 24 dB/Octave
	3/2					_					POST EQ - (Output)
4	3(2)	4	4	4	4	2	•	6			Number: EQ bands per output channel  Range: +/-12dB range
											DYNAMICS Type: Compressor/Limiter with PeakStopPlus®
•				Ė			٠	٠			Type: PeakStopPlus®
	•		•		•						Pink Noise Generator Position: Pink noise inserted on selected input(s)
							•	٠			Pink/White/Sine Phase Compensation
	•	٠	•	٠	•	•					Amount: 0-180 degrees phase shift
	•	•	•		•	•					Output Polarity: Reversible  MISCELLANEOUS
		•	•		•						Output Transformers: Optional
	•	•	•	•	•	•					Network: Proprietary RS-485 Backbone  GUI: RS-232 for computer display and configuration
•	•	•	•	:	•						RTA Microphone: Optional  ROM Upgrade: Flash upgradable through RS-232
1.75"x	1.75"x	3.5"x	3.5"x	1.75"x	3.5"x	1.75"x	3.5"x	1.75"x	1.75"x	1.75"x	GUI: RS-232 for computer display and configuration RTA Microphone: Optional ROM Upgrade: Flash upgradable through RS-232 Dimensions: H x W x D  PROFESSIONAL PRODUCT
19"x 5.75"	19"x 7.7"	19"x 12.25"	19"x 12.25"	19"x 12.15"	19"x 12.15"	19"x 5.75"	19"x 15"	19"x 15"	19"x 5.75"	19"x 5.75"	PROFESSIONAL PRODUCT
											THE LOCALIZE THOUSE

# PRODUCT SPECS

Graphic EQs   12   2   2   2   2   2   2   2   2	
Connectors: 1/4" TRS, XLR (pin 2 hot), and barrie	
Connectors: 1/4" TRS, XLR (pin 2 hot), and barrie  Connectors: 1/4" TRS, XLR (pin 2 hot), and Eurob	
Connectors: 1/4 TRS, XLR (pin 2 not), and Eurob     Connectors: 1/4" TRS, XLR (pin 2 hot)	DIOCK
Connectors: 1/4 TR3, ALR (pin 2 not)     Type: Electronically balanced/unbalanced, RF filtered	and .
• • • • • • • • • • • • • • • • • • •	
Maximum Input Level: >+21dBu balanced or unba	
OMRR: >40dB, typically >55dB at IkHz	maniced
Output Impedance: Electronically balanced 200Ω	2 unbalanced 1000
Output Impedance: Electronically balanced 1200	
• • • Output Impedance: balanced 100Ω, unbalanced 5	
+21dBu >+21dBu >+21dBu >+21dBu >+21dBu >+21dBu >+21dBu >+21dBu >+21dBu >+21dBu >+20dBu >+20dBu Maximum Output Level	
SYSTEM PERFORMANCE	
• • • • • • • Bandwidth: 20Hz to 20kHz, +/-0.5dB	
<ul> <li>Frequency Response: &lt;10Hz to &gt;50kHz , +0.5/-3c</li> </ul>	dB
THD + Noise: <0.004%, at +4dBu lkHz	
<ul> <li>* * THD + Noise: &lt;0.04%, 0.02% typical at +4dBu, I</li> </ul>	IkHz
Interchannel Crosstalk: <-80dB, 20Hz to 20kHz	
Dynamic Range: >108dB, unweighted 22kHz meas	surement bandwidth
Signal to Noise Ratio: 90dB	
Dynamic Range: >112dB, unweighted	
• • • Signal to Noise: >94dB, unweighted, ref.: +4dBu, 2	22kHz measurement bandwidth
Dynamic Range: 108dB	
• • • Signal to Noise Ratio: 90dB	
Noise Reduction: Up to 20dB of dynamic broadba	
Noise Reduction: Up to 10dB of dynamic broadba	
Noise Reduction In (+/-6dB and +/-15dB rar	nge)
Dynamic Range: >120dB , unweighted	
• • • Signal to Noise Ratio: >102dB, unweighted , ref: +4	4dBu, 22kHz measurement bandwidth
Dynamic Range: 109dB 115dB	
Signal to Noise: >94dB, unweighted, ref.: +4dBu, 2	22kHz measurement bandwidth
Digital Nessitation 21 stes	
Sample Frequency: 48kHz     Latency: 2msec	
FUNCTION SWITCHES	
• AFS: Activates dbx AFS™ Advanced Feedback Supp	proceion
Type V:Activates dbx Type V™ Noise Reduction	pression
• • Type III:Activates dbx Type III™ Noise Reduction	
• • • • • • EQ Bypass: Bypasses the graphic equalizer section	n in the signal path
Low Cut (recessed): Active the 40Hz 18dB/octave	
Low Cut: Active the 50Hz 12dB/octave high-pass to the control of the control	
Range: (recessed) Selects either +/-6dB or +/- 15	
Range: Selects either +/-6dB or +/- 12dB slider b.	
INDICATORS	
• • • • • • • • • 4-LED bar graph (Green, Green, Yellow, Red) at -1	10, 0, +10, and +18dBu
Gain Reduction Meter: 4-LED bar graph (all Red)	
• • • Type III™ NR Active:Yellow LED	
Type V™ NR Active:Yellow, Green, Red LED	
AFS™ Advanced Feedback Suppression Active: Rec	d LED
• • • • • • • EQ Bypass: Red LED	
· · · · · · · · Clip: Red LED	
Low Cut Active: Red LED	
+/-6dB range: Red LED	
• • • +/-12dB range: Red LED	
• • • • • +/-15dB range: Red LED	
POWER SUPPLY	
• • • • • • Operating Voltage: 100VAC 50/60Hz, 120VAC 60H	Hz - 230VAC 50/60Hz
12 w 12 w 15 w 24 w 24 w 12 w 24 w 24 w 17 w 17 w Power Consumption: (watts)	
• • • • • • • • • Mains Connection: IEC receptacle  1.75'x 3.5'x 5.25'x 3.5'x 5.25'x 3.5'x 5.25'x 3.5'x 5.25'x 1.75'x DIMENSIONS: H x W	
1.75°x 3.5°x 5.25°x 3.5°x 5.25°x 3.5°x 5.25°x 3.5°x 5.25°x 1.75°x 1.75°x DIMENSIONS: H x W	





266XL	1X991	160A	1074	1046	9901	18091	162SL	Compressors/Limiters/Gates
X.T	X,T	X,T	Х	X,T	X,T	X,T	X.T	Connectors: X=XLR.T=TRS ¼"
•	•	•	•	•	•	•	•	Type: Electronically balanced/unbalanced. RF filtered
>40k	>50k/>25k	>100k/>50k	>50k/>25k	>40k/>20k	>40k/>20k	>20k/>10k	>50k/>25k	Impedance: Balanced/Unbalanced (ohms)
>+20dBu	>+24dBu	>+24dBu	>+22dBu	>+22dBu	>+22dBu	+30dBu/+26	5 +24dBu	Max Input Level: Balanced or Unbalanced
>45	>45	>45	>45	>45	>45	>80	>40	CMRR: Typical @ IkHz
VI	VI	VI	V2	V2	V2	V8		VCATYPE
Т	Т	Т	Т	Т	Т	X	Т	SIDECHAIN INSERT Connectors: X=XLR,T=TRS ¼"
								OUTPUTS
X,T	X,T	X,T	X,T	Х	X,T	Х	X,T	Connectors: X=XLR,T=TRS ¼"
*	•	•	•	•	•		•	Type: Electronically balanced/unbalanced, RF filtered (*266XL is impedance balanced)
						•	•	Type: Transformer balanced/unbalanced, RF filtered
	>120/>60	>30	>60/>30	>30/>15	>30/>15	>50/>25	>30/>15	Impedance: Balanced/Unbalanced (ohms)
>+21	>+21	>+24	>+22	>+22	>+21	>+30	>+24/>+22	Max Output Level: (dBu)
								SYSTEM PERFORMANCE
•	•	•	•	•	•	•	•	Bandwidth: 20 Hz to 20 kHz, +0/-0.5 dB (162SL=+0/-0. dB)
-90	-90	-90	-94	-94	-94	-94	-93	Noise: < (dBu), unweighted, 22 kHz measurement bandwidth
•	•	•	•	•	•	•	•	Stereo Coupling; True RMS Power Summing
								COMPRESSOR
•	•	•		•	•		•	Threshold Range: -40 dBu to +20 dBu
						•		Threshold Range: -40 dBu to +30 dBu
•	•	•		•	•	•	•	Ratio: I:I to ::I
•	•	•		•	•	•	•	Threshold Characteristic: Selectable OverEasy® or hard knee
•	•				•	•	•	Attack/Release: Selectable manual or auto
		•		•				Attack/Release: Auto
•	•	•	•	•	•	•	•	Output Gain: -20 to +20 dB
						•		Output Gain: -25 to +25 dB
								LIMITER
N/A	Peakstop	N/A	N/A	Peakstop	Peakstop	Peakstop	Peakstop	Type
				Plus®	Plus®	Plus®	Plus®	(162SL two-stage)
								OPTIONS
						•		704X Digital Output System
		•	•	•	•		å	Output Transformer: Jensen® JT-123-dbx or JT-11-dbx, BCI™ RE-123-dbx or RE-11-dbx
								DIMENSIONS: H x W

223	223XL	234	234XL	Crossovers
7				INPUTS
1/4"TRS	XLR	1/4"TRS	XLR	Connectors
•	•		•	Type: Electronically balanced/unbalanced, RF filtered
	•		•	Impedance: Balanced > 50 k $\Omega$ , unbalanced > 25 k $\Omega$
	•		•	Max Input Level: > +21 dBu balanced or unbalanced
	•		•	CMRR: > 40 dB, typically > 55 dB at 1 kHz
				OUTPUTS
1/4"TRS	XLR	1/4"TRS	XLR	
				Impedance: Balanced
	•		•	Electronically balanced/unbalanced, RF filtered
•	•	•	•	Max Output Level: $>$ +21 dBu balanced/unbalanced into 2 k $\Omega$ or greater
				SYSTEM PERFORMANCE
•	•	•	•	Bandwidth: 20 Hz to 20 kHz, +0/-0.5 dB
•	•	•	•	Frequency Response: < 3 Hz to > 90 kHz, +0/-3 dB
•	•	•	•	Signal-to-Noise: Ref: +4 dBu, 22 kHz measurement bandwidth
•	•			Low Output: > 94 dB (Stereo Mode) > 94 dB (Mono Mode)
			•	Low Mid Output: >94 dB (Mono Mode)
			•	High-Mid: > 92 dB (Mono Mode)
			•	Mid Output: > 93 dB (Mono Mode)
			•	High-Mid Output: > 92 dB
			•	High Output: > 92 dB (Stereo Mode) > 92 dB (Mono Mode)
			•	Dynamic Range: > 114 dB, unweighted, any output
			•	THD+Noise: < 0.004% at +4 dBu, I kHz, < 0.04% at +20 dBu, I kHz
			•	Interchannel Crosstalk: < -80 dB, 20 Hz to 20 kHz
				CROSSOVER FREQUENCIES
	•		•	Stereo Mode: Low/High: 45 to 960 Hz or 450 Hz to 9.6 kHz (x10 setting)
				Mono Mode: Low/Mid: 45 to 960 Hz or 450 Hz to 9.6 kHz (x10 setting)
				Mid/High: 45 to 960 Hz or 450 Hz to 9.6 kHz (x10 setting)
				Filter Type: Linkwitz-Riley, 24 dB/octave, state-variable
				POWER
				Operating Voltage: 100 VAC 50/60 Hz; 120 VAC 60 Hz, 230 VAC50 HZ
15 w	15 w	15 w	15 w	Power Requirements (watts)
1.75"x	1.75"x	1.75"x	1.75"x	DIMENSIONS H xWx D
19"x	19"x	19"x	19"x	
6.9"	6.9"	6.9"	6.9"	

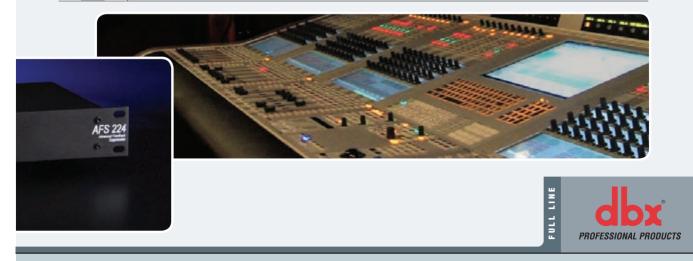


# PRODUCT SPECS

Σ	QUANTUM II	AFS224	Digital Signal Processors
			INPUTS
X,T	X,T	X,T	Connectors: X=XLR,T=TRS ¼"
•	•	٠	Type: Electronically balanced/unbalanced, RF filtered
>18k/>9k	>18k/>9k	50k/25k	Impedance: Balanced/Unbalanced (ohms)
+24dBu	+24dBu	+20dBu	Max Input Level: balanced or unbalanced
•	•	٠	CMRR: >40dB at IkHz, typically >55dB @IkHz
•	•		Input Gain Range: -∞ to +16dB
•	•	N/A	MIDI: 5 Pin DIN MIDI Input Jack
			OUTPUTS
X,T	X,T	X,T	Connectors: X=XLR,T=TRS 1/4"
•	•	•	Type: Electronically balanced/unbalanced, RF filtered
•	•	•	Balanced: $120\Omega/U$ nbalanced: $60\Omega$
		•	Max Output Level: +20dBu
•	•		Max Output Level: +21dBu,>+20 dBm into 600Ω, balanced or unbalanced
•	•		Output Gain Range: ∞ to +16 dB
•	•	N/A	MIDI: 5 Pin DIN MIDI Out/thru Jack
•	•	N/A	PC COMM: RS232
			COMPRESSOR
Multi-band	Multi-band	N/A	Туре
			LIMITER
Multi-band	Multi-band	N/A	Type: Peakstopp <sup>™</sup> , PeakstopPlus <sup>®</sup>
			EXPANDER/GATE
Multi-band	Multi-band	N/A	Туре
			A/D SYSTEM PERFORMANCE
•	•	•	A-D Conversion: 24-Bit dbx Type IV <sup>™</sup> Conversion System
•	•		Converter Dynamic Range: >114dB typical, A-weighted, >112dB typical, unweighted, 22kHz bandwidth
		•	Converter Dynamic Range: >113dB A-weighted, >110dB unweighted, 22kHz bandwidth
			Type IV <sup>™</sup> Dynamic Range: Up to 127dB with transient material, A-weighted, 22kHz bandwidth
	•		Up to 125dB with transient material, unweighted, 22kHz bandwidth
			Typically 119dB with program material, A-weighted, 22kHz bandwidth
			Typically 117 dB with program material, unweighted, 22kHz bandwidth
		•	Type IV <sup>TM</sup> Dynamic Range: >119 A-weighted, >117dB unweighted, 22kHz bandwidth
•		•	Frequency Response: 20Hz to 20kHz, +0/-0.5dB
			Interchannel Crosstalk: <-85dB at 1kHz, input gain at 0dB
			Interchannel Crosstalk: <-80dB at 1kHz, input gain at 0dB
			D/A SYSTEM PERFORMANCE
•	•		D-A Conversion: 24-Bit
	•		Dynamic Range: I15dB typical, A-weighted, 22kHz bandwidth
			112dB typical, unweighted, 22kHz bandwidth
			Dynamic Range: I12dB typical,A-weighted, 22kHz bandwidth
			1199dB typical, unweighted, 22kHz bandwidth
	•		THD+ Noise: 0.0028 typical at +4 dBu, 1 kHz, input gain at 0dB
	•		THD+ Noise: 0.003% typical at + 4 d dBu, I kHz, input gain at 0dB
	•	•	Frequency Response: 20Hz to 20kHz, +0/-0.5dB
-	•		Trequency Testing Constitution of the Constitu
		•	meer channer Crosstalik: <-80dB at 1kHz, input gain at 0dB Interchannel Crosstalik: <-80dB at 1kHz, input gain at 0dB
		-	INCEPTIONAL INCOME AT TREE, INDUCTION AT OUR DISTRICT OF THE PROPERTY OF THE
		N/A	Word Clock: 96kHz, 88.1 kHz, 48 kHz and 44.1 kHz - (internal) INT96, INT88.2, INT48, INT44.1,
		13//	Word Clock: 76kHz, 90 kHz, 40 kHz, 40 kHz - (Internal) IN 175, IN 160-2, IN 140, IN 144-1, (SuperClock) SC48, SC44. I, Word, AES/EBU, and S/PDIF.
_			The SuperClock frequencies are 256 times the sample frequency  SRC (sample rate conversion): INT44.1 and INT48, Word, SC48, SC44.1
1.75"x 19"x	1.75"x 19"x	1.75"x 19"x	DIMENSIONS: H x W
19 X	19 X	5.75"	



			Mic Preamps/Channel Strips
386	376	286A	·
(*)	•		MICROPHONE INPUT
<u> </u>	•	•	Connector: Female XLR Pin 2 Hot Type: Electronically balanced/unbalanced
<u> </u>	•	÷	ype: Electronically Dalanced/undalanced Maximum Input Level: 10dBu or +10 dBu with 20dB pad engaged
_	•	·	Praximum input Level: -9 dBu or +11 dBu with 20 dB pad engaged  Maximum liput Level: -9 dBu or +11 dBu with 20 dB pad engaged
	-		Traxmon ripput Leven. 7 dau with 20 db pad engaged Type:Transformer Balanced Type:Transformer Balanced
			Type: natistiment Bange: +10dB to +60dB
		_	Gain Adjustment Range: +30dB to +60dB
48V	48V	48V	Phantom Power
•	•	•	Pad: 20dB
-120	-120	-120	Equivalent Input Noise:Typically -(dBu) typical with a 150Ω source load "A-weighted"
-120	.20	120	LINE INPUT
•	•		Connector: TRS ¼"   ack
•	•		Type: Electronically Balanced/unbalanced
20k-40kΩ	20k-40kΩ	100kΩ	Impedance: bal/unbalanced
			Maximum Input Level: 0 dBu or +20dBu with 20dB pad engaged
•		٠	Maximum Input Level: +21dBu balanced or unbalanced
	•		Maximum Input Level: +18dBu balanced or unbalanced
			INSTRUMENT INPUT (Front Panel)
•	•		Connector:TS ¼" Jack
•	•		Type: Unbalanced
•	•		Impedance: 470 k $\Omega$
+21kΩ	+18kΩ		Maximum Input Level (unbalanced)
•			Insert Connector:TRS ¼"
•			Type: Unbalanced
			LINE OUTPUT
•	•	٠	Connector: Male XLR Pin 2 Hot and impedance balanced TRS ¼"
		٠	Connector: 'A' "TRS phone balanced/unbalanced
•	•	٠	Type: Electronically balanced
			Type: transformer balanced/unbalanced
>21	>18	>21	Maximum Output Level: (XLR) +dBu
			DIGITAL OUTPUTS
•	RCA		Connectors: XLR for AES/EBU, RCA for S/PDIF I = both connector types
			INSERT
•		:	Connector:TRS %"
-			Ring Impedance: >5kΩ
<u>·</u>		٠	Maximum Level: >+21 dBu Wood Super Level(Cuttority
_			Word Sync Input/Output Connectors: BNC
			Connectors: but, and the state of the state
<u> </u>			input impedance: 75sz terminated by internal jumper liput 9,6 sa.2, 48, or 44, lkHz word clock
÷			input. 76, 66, 7, 67, 67, 47, 112, Word clock  Output 96, 88, 1, 48, or 14, 11kHz word clock
			AID CONVERSION
			Type: dbx Type IV® A/D Conversion System
•			Type-tos-type-transcription System Sample Rate: 96, 88.2, 48, or 44.1kHz selectable
•			Wordlength: 24, 20, or 16 bit selectable
•			Dither Type: TPDF, SNR2, or none
•			Noise Shape: Shape 1, Shape 2, or none
•			Output Format: S/PDIF or AES/EBU
I07dB	107dB		Converter Dynamic Range: typical, A-Weighted, 22kHz Bandwidth
			D/A CONVERSION
	•		D-A Conversion 24-bit
	•		Dynamic Range: 103 dB typical, A-weighted, 20 kHz bandwidth, 101 dB typical, unweighted, 20 kHz bandwidth
	•		THD+Noise: 0.002% typical at +4 dBu, I kHz, output gain at 0 dB
	•		Frequency Response: 20 Hz to 20 kHz, +0/-0.5 dB
	•		Interchannel Crosstalk: < -85 dB at 1 kHz, output gain at 0 dB
			DIMENSIONS
1.75"x	1.75"x	1.75"x	HxWxD
19"x 7.75"	19"x 7.75"	19"x 5.75"	
/./5"	1./5	5./5	





8760 S. Sandy Pkwy. Sandy, Utah 84070

801.568.7660 PHONE 801.568.7662 FAX

801.568.7583 INT'L FAX customer@dbxpro.com

www.dbxpro.com