

Dx46

Dx46
FIR-DRIVE
Sound System Processor



Key Features:

- 116 dB dynamic range
- 2 analog inputs, 6 analog outputs
- 2 digital AES/EBU inputs
- FIR-DRIVE
- TEMP limiter
- Configuration via IRIS-Net



General Description:

The Electro-Voice Dx46 is a digital sound system processor with 2 analog inputs, 2 digital AES/EBU inputs and 6 analog outputs. With high-resolution FIR filters, adaptive feedback speaker protection and a multi-level delay concept, the Dx46 sets new standards for digital loudspeaker processors. FIR-DRIVE provides highly detailed optimization of loudspeaker performance through the use of complementary FIR filters and advanced DSP settings. The configuration and operation of the device can be done via the front panel or the IRIS-Net software. For remote configuration and control the Dx46 can be connected via Ethernet or USB. The integrated 2 port Ethernet switch allows easy chain connection of devices. Direct access buttons for editing DSP parameters are available on the front panel. Up to 30 presets (60 factory presets and 30 programmable user presets) can be used. The integrated FLASH memory allows software or preset updates via Ethernet or USB. Five control inputs on the rear panel can be used for recall of presets using external switches or contacts. On the front panel level meters for input and output signals, output gain reduction, limit and clip LEDs, dedicated Mute buttons, output channel function indicators (SUS, LCL, MRQ, HOS) and a LCD display (192x32 pixels) with blue backlight are available. There are 8 pre-configured configurations plus one free configurable full 68 dB (2 in 6 out) configuration available. Three dedicated processing groups (user, array, speakers) are available. For each output 512-tap FIR filters can be used, the PEQ and GEQ use 48 Bit filter algorithms, a look-ahead Peak limiter and TEMP limiter (Thermal Energy Management and Protection) are available. The integrated Signal Generator allows internal generation of pink noise, white noise or sine signal. Every DSP parameter can be locked and / or hidden. The configuration of the ethernet port can be done via IRIS-Net device scan. Using 24 Bit AD/DA converters a dynamic range of 116 dB is reached. A switchable input PAD (-6 dB) can be activated. Configuration is done via IRIS-Net software, the visualization of the system transfer function is possible using Electro-Voice Speaker Settings. Please refer to the Dx46 owner's manual and IRIS-Net documentation for more details.

Technical Specifications:

Main Voltage	100 to 240 V AC, 50/60 Hz
Power Consumption	25 W
Analog Audio Inputs	2 XLR IN, electronically balanced 2 x XLR THRU-OUT, electronically balanced
Digital Audio Inputs	1 x XLR AES/EBU IN 1 x XLR AES/EBU THRU OUT
Digital Audio Format	AES3, 32 kHz to 192 kHz sample rate
Nominal Input Voltage	1.25 V / +6 dBu
Maximum Input Voltage (with -6dB PAD engaged)	12.5 V / +27 dBu
Input Impedance	10 kOhm
Common Mode Rejection	-85 dB @ 1 kHz (typical)
A/D Conversion	24-bit Sigma-Delta
Analog Audio Outputs	6 x XLR OUT, electronically balanced
Nominal Output Voltage	1.25 V / +6 dBu
Maximum Output Voltage	8.7 V / +21 dBu
Output Impedance	50 Ohm
D/A Conversion	24-bit Sigma-Delta
Frequency Response	20 Hz to 20 kHz (+/-0.5 dB) 200+ Hz
Dynamic Range	116 dB (A-weighted)
USB	USB Type B on front panel (PC interface)
Ethernet	2 x RJ-45 ports, 100 MB, Integrated Switch
Control Port	1 x 6-pole Euro block Software Configurable for Preset Recall
Sample Rate	48 kHz
Data Format	24-bit
Internal Processing	48-bit Double Precision
Signal Processing	Parametric EQs, 31 band Graphic EQs, Delays, Routing, X-Over, 50:3 Taps FIR Filters, PA Limiter, TEMP Limiter, Level, Polarity, Signal generator
Operating Temperature Range	0 °C to 40 °C
Dimensions (960x55)	19 x 13.9 x 1.73 inch (483 x 354.1 x 43.8 mm)
Weight (Net)	4.8 kg

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Electro Voice Dx46 User Manual

JL Elias



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Table of Contents Electro Voice Dx46 User Manual

1. Understanding the eBook Electro Voice Dx46 User Manual
 - The Rise of Digital Reading Electro Voice Dx46 User Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Electro Voice Dx46 User Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Electro Voice Dx46 User Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Electro Voice Dx46 User Manual
 - Personalized Recommendations
 - Electro Voice Dx46 User Manual User Reviews and Ratings
 - Electro Voice Dx46 User Manual and Bestseller Lists
5. Accessing Electro Voice Dx46 User Manual Free and Paid eBooks
 - Electro Voice Dx46 User Manual Public Domain eBooks
 - Electro Voice Dx46 User Manual eBook Subscription Services

- Electro Voice Dx46 User Manual Budget-Friendly Options
- 6. Navigating Electro Voice Dx46 User Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Electro Voice Dx46 User Manual Compatibility with Devices
 - Electro Voice Dx46 User Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Electro Voice Dx46 User Manual
 - Highlighting and Note-Taking Electro Voice Dx46 User Manual
 - Interactive Elements Electro Voice Dx46 User Manual
- 8. Staying Engaged with Electro Voice Dx46 User Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Electro Voice Dx46 User Manual
- 9. Balancing eBooks and Physical Books Electro Voice Dx46 User Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Electro Voice Dx46 User Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Electro Voice Dx46 User Manual
 - Setting Reading Goals Electro Voice Dx46 User Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Electro Voice Dx46 User Manual
 - Fact-Checking eBook Content of Electro Voice Dx46 User Manual
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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