



## **Dx46**

FIR-DRIVE SOUND SYSTEM PROCESSOR

Born of the legacy of such legendary DSPs as the Dx34, Dx38 and N8000, the Dx46 combines ease of use and flexibility of control with the industry's most advanced DSP technology: FIR-Drive.

### **FIR-Drive**

The Dx46 brings the same technology found in NetMax and RCM-26 equipped Tour Grade amplifiers to a new, compact and easy to use form factor. Providing six channels of 512-tap, complex phase FIR filters in addition to EV's state of the art PA Limiter and TEMP Limiter algorithms

### **Connectivity Your Way**

The Dx46 provides a USB interface for convenient local connection as well as an Ethernet interface with an integrated switch for more advanced and networked connectivity. Additionally, five GPI ports provide input for contact closures or other hardware interfaces.

### **IRIS-Net**

IRIS-Net allows complete integration of your EV sound system, including amplifiers, external controls, amplifiers and much more. Providing complete control, configuration, and supervision through standard or customized interfaces, IRIS-Net allows the ultimate in flexibility for controlling what you want to control-how you want to control it.

### **Advanced DSP Options**

The Dx46 provides complete input processing, with graphic EQ, PEQ and delay. You also get a complete FIR-Drive outputs stage including crossover, EQ and dynamics. But the Dx46 goes further providing specialized Array EQ and Array Delay blocks on each output. Configuring and adjusting highly specialized array, cluster or zoned systems has never been more convenient.



- ▶ 2x6 FIR-Drive loudspeaker processor
- ▶ Analog and AES/EBU inputs
- ▶ Full IRIS-Net control and configuration
- ▶ Ethernet and USB data interfaces
- ▶ Full loudspeaker protection package including PA and TEMP limiters
- ▶ Dedicated array EQ and delay sections for advanced applications
- ▶ -6dB switchable analog pad inserted before A/D converters on inputs
- ▶ 4 Separate delay sections
- ▶ 5 Contact closure inputs
- ▶ 60 Factory presets
- ▶ 30 User presets
- ▶ Unique Edit/Compare mode



Property	Value
Mains Voltage	100 to 240 V AC, 50 to 60 Hz
Power Consumption	25 W
Analog Audio Inputs	2 x 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	1.55 V / +6 dBu
Maximum Input Voltage (with -6dB PAD engaged)	17.3 V / +27 dBu
Input Impedance	10 kΩ
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	1.55 V / +6 dBu
Maximum Output Voltage	8.7 V / +21 dBu
Output Impedance	50 Ω
D/A Conversion	24-Bit Sigma-Delta
Frequency Response	20 Hz to 40 kHz (-3 dB)
THD+N	< 0.002 % (band limited 22 Hz to 22 kHz)
Dynamic Range	116 dB (A-weighted)
USB	USB Type B on front panel (PC Interface)
Ethernet	2 x RJ-45
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
Operating Temperature Range	0 °C to +40 °C
Dimensions (WxHxD)	19 x 13.9 x 1.72 inches (483 x 356.1 x 43.6 mm)
Weight (Net)	4.8 kg

## Bosch Communications Systems

**Americas**  
**Headquarters Americas**  
 Bosch Security Systems, Inc.  
 12000 Portland Ave South,  
 Burnsville, MN 55337, USA  
 USA-Ph: 1 800 392 3497  
 Fax: 1 800 955 6801  
 Canada-Ph: 1 866 505 5551  
 Fax: 1 866 336 8467  
 Latin America-Ph: 1 952 887 5532  
 Fax: 1 952 736 4212

**EMEA**  
**Headquarters Europe,**  
**Middle-East & Africa**  
 Bosch Sicherheitssysteme GmbH  
 Werner-von-Siemens-Ring 10  
 85630 Grasbrunn, Germany

**Contact & Visitor Address**  
**EVI Audio GmbH**  
 Sachsenring 60  
 94315 Straubing, Germany  
 Phone: +49 9421 706 0  
 Fax: +49 9421 706 265

**France**  
**EVI Audio France S.A.S**  
 Phone: +33 1 64.80.00.90  
 Fax: +33 1 60.06.51.03

**Middle East**  
**Robert Bosch**  
**Middle East PZE**  
 Phone: +97 14 212 3300  
 Fax: +97 14 212 3398

**Asia & Pacific**  
**Headquarters APR**  
**Robert Bosch (SEA) Pte Ltd**  
 11 Bishan St. 21  
 Singapore 573943  
 Phone: +65 6571 2526  
 Fax: +65 6571 2699

**Australia**  
**Bosch Security Systems Pty Ltd**  
 Phone: +61 2 9683 4752  
 Fax: +61 2 9890 5928

**China**  
**Telex EVI Audio**  
**(Shanghai) Co., Ltd.**  
 Phone: +86 21 6317 2155  
 Fax: +86 21 6317 3025

**Korea**  
**Robert Bosch Korea**  
 Phone: +82 31 270 4765  
 Fax: +82 31 270 4601

**China**  
**Telex EVI Audio**  
**(Shanghai) Co., Ltd.**  
 Phone: +86 21 6317 2155  
 Fax: +86 21 6317 3025  
**India**  
**Bosch Limited**  
 Phone: +91 80 4176 8378  
 Fax: +91 80 4176 8263  
**Japan**  
**EVI Audio Japan**  
 Phone: +81 3 5485 4427  
 Fax: +81 3 5485 4428

