

# CX2400

## 2x4 Loudspeaker Control System



The **dbx CX2400 loudspeaker control system** provides superior-quality digital audio processing, routing and tuning to manage and protect your PA system and deliver the best sound possible in any mobile production or fixed installation.

With a 2x4 input/output configuration, the CX2400 provides all of the processing necessary to get the most out of your sound system: Each input and output channel offers a full suite of DSP including 6-band parametric EQ, limiter, compressor, crossover, delays and filters; internal 96 kHz/24-bit processing provides pristine audio performance.

Units are designed for fast deployment and simple operation, with 30 built-in presets and access to downloadable JBL loudspeaker presets. An intuitive front-panel layout centers around a bright, easy-to-read LCD screen; channel indicators with mutes; PC interface connection; and CUE preset recall buttons.

Ideal for rental companies, houses of worship, touring artists and DJs and corporate A/V and education markets, dbx CX Series loudspeaker control systems make perfect centerpieces for your most versatile PA systems. dbx CX Series are available for the China market only.

### HIGHLIGHTS ■

#### Professional Performance

32-bit floating-point processing with 96 kHz/24-bit A/D and D/A converters for pristine audio performance

#### Flexible Configuration, Easy Setup

Includes 30 presets and tunings for JBL loudspeakers to make setup and optimization fast and easy

#### Intuitive User Control

Intuitive, versatile operation using the front-panel controls and large display or via the USB port and free app

### KEY MESSAGES ■

#### THE dbx LEGACY: ROAD TESTED, CONTRACTOR APPROVED

For decades, the world's most discriminating sound system designers have relied on dbx processing technologies to support top live productions and installations. Take advantage of the fidelity we're famous for, in simple, affordable digital solutions that offer 24-bit/96 kHz resolution with 32-bit floating-point processing for pristine audio quality.

#### YOUR ALL-IN-ONE SYSTEM-MANAGEMENT TOOLBOX

The dbx CX Series provides robust audio processing and signal routing so you can operate your PA system safely while delivering the loudest, cleanest sound possible. Each input and output channel has its own dedicated 6-band parametric EQ; limiter; compressor; crossover; delays; and Butterworth, Bessel, Linkwitz-Riley and 12/18/24/36/48 dB/octave filters.

#### FAST, SIMPLE SYSTEM SETUP

Touring artists and rental companies customize sound systems for a range of venues and spaces; they need a loudspeaker management solution that's versatile enough to meet diverse acoustic requirements.

Conversely, commercial facilities may share common system configurations in many spaces. The dbx CX Series is available in 2x4, 3x6 and 4x8 input/output configurations to fulfill a broad range of system demands, and includes built-in EQ presets for popular JBL loudspeakers. Store and recall presets for frequently used venues for quick, easy setup, wherever you work.

#### INTUITIVE OPERATION, ANYWHERE

CX Series models all share a similar front-panel layout, functions and features, for consistent operation and ease of use. Front-panel features include a vivid LCD screen with intuitive companion editing controls. Input and output channel LED indicators display levels; each channel features a dedicated mute button. Connect to a PC through the front-panel USB port to access a detailed GUI for complete, intuitive control of all hardware parameters, no drivers necessary.

#### IN THE BOX ■

CX2400 Loudspeaker Control System  
IEC Power Cable  
Chinese and English Operation Manual

# CX2400

## 2x4 Loudspeaker Control System



### APPLICATIONS ■

#### APPLICATION EXAMPLE 1

Rental companies looking for an inexpensive and easy-to-use system processor.

#### APPLICATION EXAMPLE 2

Teaching facilities looking for an easy-to-use PA loudspeaker processor.

#### APPLICATION EXAMPLE 3

Touring artists and DJs looking for a great-sounding PA loudspeaker processor.

#### APPLICATION EXAMPLE 4

Corporate A/V and education installations requiring a set-and-forget PA loudspeaker

### FEATURES ■

- Each input and output channel features 6-band parametric EQ, limiter, compressor, crossover, 1,000 ms delay and crossover filters (Butterworth, Bessel, Linkwitz-Riley and 12/18/24/36/48 dB/octave)
- 30 preset slots; JBL presets available for download
- Large front-panel LCD screen with companion editing controls
- Front-panel LED indicators display input and output channel status and levels at a glance
- Three front-panel CUE buttons instantly recall favorite system presets
- Front-panel USB PC interface provides GUI access without requiring software drivers
- Dedicated front-panel channel mute buttons
- Password security protects system settings
- I/O: 2 XLR balanced inputs, 4 XLR balanced outputs
- Rear-panel RS485 port for third-party control
- Sampling rate: 96 kHz
- A/D and D/A conversion: 24-bit PCM
- 32-bit floating-point processing
- S/N ratio: >100 dB, 20 Hz – 20 kHz
- Dimensions: 483 mm (W) x 45 mm (H) x 240 mm (D)
- Power: 90 – 240VAC, 50/60 Hz

### TECHNICAL SPECIFICATIONS ■

<b>INPUTS:</b>	2 XLR, balanced	<b>THD:</b>	<0.008%, (20 Hz – 20 kHz @ +10 dBu)
<b>OUTPUTS:</b>	4 XLR, balanced		<0.0015%, (1 kHz @ +10 dBu)
<b>INPUT IMPEDANCE:</b>	10k ohms	<b>EQUIVALENT INPUT NOISE:</b>	< -83.8 uV
<b>OUTPUT IMPEDANCE:</b>	47 ohms	<b>SAMPLING RATE:</b>	96 kHz
<b>MAX INPUT:</b>	+20 dBu	<b>SIGNAL-TO-NOISE RATIO:</b>	>100 dB, 20 Hz – 20 kHz
<b>MAX OUTPUT:</b>	+20 dBu	<b>COMMON MODE REJECTION RATIO:</b>	>60 dB
<b>PEQ:</b>	6 bands on every input/output channel	<b>INTERNAL CROSS-OVER:</b>	<-85 dB
<b>DELAY:</b>	1000 ms per input/output channel	<b>A/D &amp; D/A CONVERTERS:</b>	24-bit PCM
<b>CROSSOVER FILTER TYPES:</b>	Butterworth, Bessel, Linkwitz-Riley, 12, 18, 24, 36, 48 dB/octave	<b>DIMENSIONS (W x H x D):</b>	483 x 45 x 240 mm
<b>PROCESSING DELAY:</b>	< 3 ms	<b>POWER:</b>	100 – 240 VAC, 50/60 Hz
<b>FREQUENCY BAND:</b>	15 Hz – 20 kHz, +0.25 dB / -0.5 dB	<b>POWER CONSUMPTION:</b>	<20W
<b>DYNAMIC RANGE:</b>	>108 dB, 22 Hz – 22 kHz	<b>NET WEIGHT:</b>	3.5 kg



HARMAN Professional 8500 Balboa Blvd. Northridge, CA 91329 USA

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[www.dbxpro.com](http://www.dbxpro.com)

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