㉓ **IEC AC SOCKET**
Connect the supplied AC linecord to the IEC AC Socket.

PC SOFTWARE
INSTALLING THE SOFTWARE

A PC-based Windows-style graphical interface software application is provided on a CD-ROM to control and configure the DX8 at the point of installation.

TO INSTALL THE SOFTWARE ON A PC:
1. Insert the DX8 CD-ROM into the CD drive.
2. Make sure no other applications are open.
3. Click Start, and then click Run.
4. Type <drive>:\DX8-PC\Setup in the command line (where <drive> is the letter assigned to the CD drive, i.e., D drive)
5. Setup will install the DX8-PC application onto your PC. You can accept the default directory, or specify a different location to install the application.

CONNECTING A PC

Use a standard DB9 (male/female) computer cable to connect a PC to the DX8. COM 1 is the default serial port selected in the software application for the PC. Connect the COM port on the PC to a COMM PORT on the DX8.

View the installed "Readme" file for more information about running the PC application and using a different serial port on the PC.

Two independent RS232 connectors are provided, one on the front panel and one on the rear, for connection to a computer, control system, or compatible PDA. A DB25 connector on the rear panel allows interface between the 10 Logic Inputs and 10 Logic Outputs to switches, LEDs and other devices, enabling hardware control and indication from custom control panels. All logic inputs and outputs are fully programmable in software. A proprietary remote control bus allows connection of the optional DX8 wired remotes over a variety of three-conductor cable. Remotes are available in Volume Control and 4-switch versions and may be combined in any configuration.

The DX8 is supplied with PC software that allows access to all of the system's settings and configurations. The software offers Stereo and Mono mixer views, as well as access to the two 1/3-octave equalizers, two 5-band parametric equalizers and two compressors dedicated to the two master outputs. In addition, it allows configuration and recall of up to 16 Presets, 8 input Priority Levels, 8 Mute Groups and 8 Control Groups. Force ON and OFF functions are provided, with a selection of Relative or Absolute changes, which can be used with the Priority settings to create sophisticated audio management systems.

The DX8 is UL and CE approved and designed for continuous use in professional fixed installation systems. An internal auto-ranging power supply allows connection to mains voltages from 90-240V AC at 50/60 Hz without requiring jumper or switch setting changes. A 24V DC input is provided for applications where backup battery power is required. Switchover to backup power is automatic and silent.

DX8
8x2 Digital Mixer and Signal Processor

Quick-Start Guide
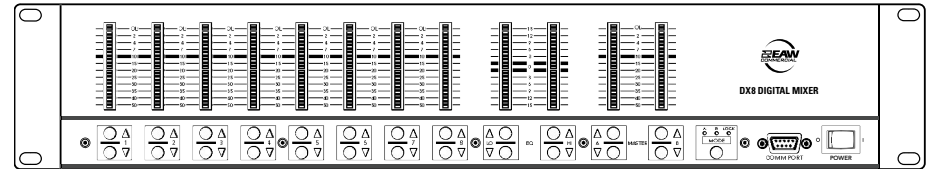
The DX8 is a DSP-based digital audio mixer and signal processor designed for use in a variety of installations such as churches, courtrooms, convention centers, and hotels. It provides eight universal inputs and two balanced outputs allowing true 8x2 mixing for stereo or dual zone applications.

Each of the eight input channels is terminated to two Phoenix-type detachable connectors, each optimized to accept either mic or line-level signals. Microphone preamplifiers use XDR™ technology to offer studio-class audio performance. Phantom power of 48V DC is switchable individually on each input. Two auxiliary line-level inputs with trim are provided, allowing analog signals to be mixed with the A and B master mixes. Master outputs deliver balanced line-level signals to detachable Phoenix-type connectors as well as buffered unbalanced signals to RCA connectors intended for recording.

The DX8 offers an intuitive front panel user interface, consisting of dual-function LED bar graph meters for each input and output. Input meters indicate the presence of signal before signal processing (pre-fader), while output meters indicate actual level at the output (post-fader). Levels are set by means of UP/DOWN pushbuttons dedicated to each input and output. A MODE button is used to select between Mix A and B, allowing adjustment of levels to both mix outputs from the same set of input controls. A third function of the MODE button allows the user to LOCK the front panel controls until a security unlock code is entered.

SAFETY FIRST!
Before connecting and using the equipment, please read this Quick-Start Guide carefully and keep it for future reference.

WARNING! This equipment has been designed to be installed by qualified professionals only! There are many factors to be considered when installing professional sound reinforcement systems. Some of these factors include mechanical and electrical considerations, as well as acoustic coverage and performance. LOUD Technologies strongly recommends that this equipment be installed only by a professional sound installer or contractor.

CAUTION: To avoid the risk of electric shock, never allow this equipment to be exposed to rain or dampness.

1. **Never install, connect, or disconnect the unit with the power supply on.**
2. **Before powering up the DX8, make sure the AC voltage applied corresponds to the markings on the rear panel.**
3. **Make sure the safety ground on the power cord is properly grounded.**
4. **To prevent the risk of electric shock, never open the unit. There are no user-serviceable parts inside.**
5. **To ensure normal cooling of the DX810, make sure the unit is well ventilated. Avoid exposure to direct sunlight or proximity to any heat source, dust, or dampness.**

CAUTION: Internal lithium battery. Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.

FRONT PANEL FEATURES AND CONTROLS

1 INPUT UP/DOWN BUTTONS
Use to adjust the mix level for each input channel to Output A or B.

2 INPUT LED DISPLAY
This indicates the signal level after the mic preamp stage, just after the A/D converter. When any input UP/DOWN button is pressed, the input meters switch from level metering to level setting indication. After five seconds, the meter switches back to normal level (PPM) metering.

3 EQ LO/HI UP/DOWN BUTTONS
Use to adjust the gain of the 2-band shelving EQ on Outputs A or B.

4 EQ LED DISPLAY
When an EQ UP/DOWN button is pressed, the EQ meter indicates the amount of boost or cut of the LO and HI frequencies in decibels (±15 dB).

5 MASTER A/B UP/DOWN BUTTONS
These buttons adjust the output level for each output bus.

6 MASTER OUTPUT LED DISPLAY
This indicates the signal level after the digital signal processing and MASTER gain stage. When a MASTER UP/DOWN button is pressed, the master output meter switches from level metering to level setting indication. After five seconds, the meter switches back to normal (PPM) level metering.

7 MODE
Changes the front panel buttons between Bus A and Bus B operation. The LOCK position disables the front panel controls to prevent unauthorized changes to the settings. The default lock code (1234) can be changed with the DX8-PC application.

8 COMM PORT
An RS-232 port on a 9-pin D-Sub connector, which connects to a personal computer or other compatible control system for external control of the DX8 settings.

9 POWER
Use the POWER switch to turn the DX8 on and off.
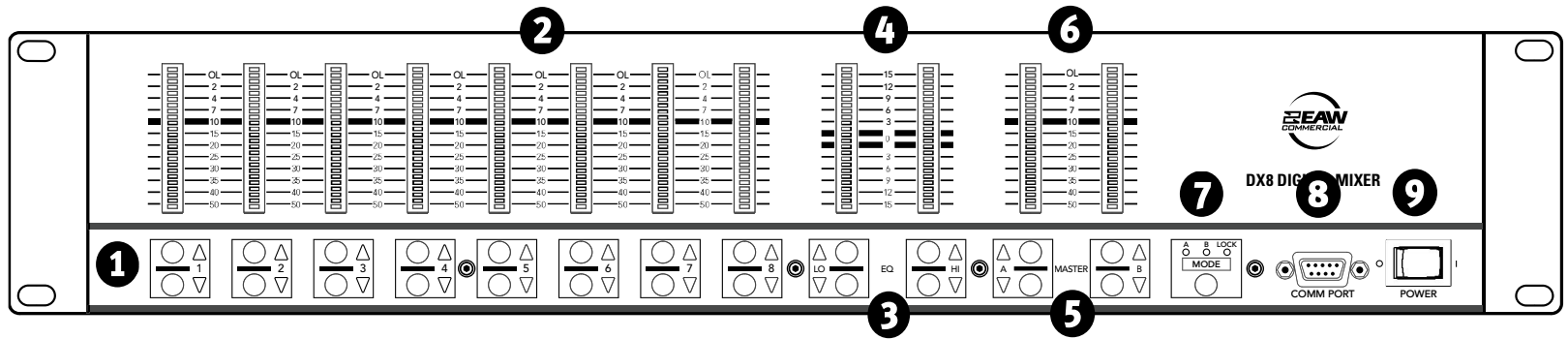
REAR PANEL FEATURES AND CONTROLS

10 INPUTS 1-8
Each of the eight analog inputs has separate balanced mic and line input connectors that use XDR mic preamps. These are 3-pin Phoenix-type connectors. Use either the MIC or LINE input; only one can be used per channel.

11 TRIM
Use to trim the level of the input signal for optimum signal-to-noise ratio in the preamp stage.

12 PHANTOM POWER
These switches apply phantom power (+48VDC) to pins 2 and 3 of the selected mic input connectors. Switch the PHANTOM POWER switch for an individual channel to the UP position when using a condenser microphone.
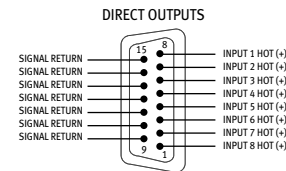
13 BUS A/B INPUTS
These analog inputs accept balanced line-level signals and route the signal to the internal buses. There is no DSP processing on these inputs.

14 BUS A AND B TRIM
Use to trim the level of the inputs to the buses.

15 DIRECT OUTPUTS
This 15-pin D-Sub connector supplies an analog, unbalanced line-level signal from each of the eight program inputs, post-preamp and pre-processing.

DIRECT OUTPUTS

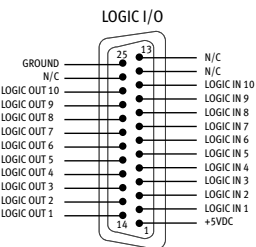| SIGNAL RETURN | 15 | 8 | INPUT 1 HOT (+) |
SIGNAL RETURN			INPUT 2 HOT (+)
SIGNAL RETURN			INPUT 3 HOT (+)
SIGNAL RETURN			INPUT 4 HOT (+)
SIGNAL RETURN			INPUT 5 HOT (+)
SIGNAL RETURN			INPUT 6 HOT (+)
SIGNAL RETURN			INPUT 7 HOT (+)
SIGNAL RETURN	9	1	INPUT 8 HOT (+)

16 RECORD OUT
These RCA connectors supply unbalanced line-level signals from the BUS A and BUS B outputs. The signals are the same as the main outputs.

17 OUTPUTS A/B
These 3-pin Phoenix-type connectors supply a balanced line-level signal from BUS A and BUS B.

18 LOGIC I/O
This 25-pin D-Sub connector provides 10 logic control inputs and 10 logic control outputs (open-collector). These inputs can be used to control a wide variety of DX8 functions via external switching. The outputs can be used to provide status levels for external indicators for a number of internal settings and conditions, as well as control switching to external devices.

LOGIC I/O

GROUND	25	13	N/C
N/C			N/C
LOGIC OUT 10			LOGIC IN 10
LOGIC OUT 9			LOGIC IN 9
LOGIC OUT 8			LOGIC IN 8
LOGIC OUT 7			LOGIC IN 7
LOGIC OUT 6			LOGIC IN 6
LOGIC OUT 5			LOGIC IN 5
LOGIC OUT 4			LOGIC IN 4
LOGIC OUT 3			LOGIC IN 3
LOGIC OUT 2			LOGIC IN 2
LOGIC OUT 1	14	1	LOGIC IN 1
			+5VDC

19 REMOTE BUS
This 3-pin Phoenix-type connector can be used to attach optional remote controls to the DX8. Several remote controls can be connected to each other in a daisy-chain fashion to extend the remote control functionality of the DX8.

20 COMM PORT
This is identical to the COMM PORT on the front panel. Use this to connect to an RS-232 serial port on a personal computer or third-party controller for external control of the DX8.

21 EXPANSION SLOT
This is used for the DX810 to install the DX•10e expansion board, which provides additional DSP horsepower and eight more balanced outputs.

22 24VDC POWER
The DX8 can be powered using a 24V DC power supply. This can serve as the primary power supply for the DX8, or as a backup supply in case of an AC power failure. The DX8 seamlessly switches to the backup supply if there's a power loss. When both AC power and 24V DC power are connected, the AC power is used and no current is drawn from the DC supply.

DX8 DIGITAL MIXER