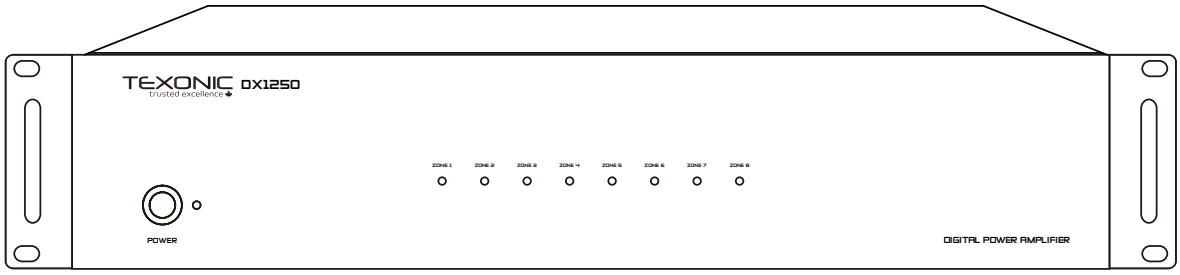
TEXONIC
trusted excellence

DX850/1250

MULTI CHANNEL
POWER AMPLIFIER



OWNERS MANUAL

DEAR CUSTOMER

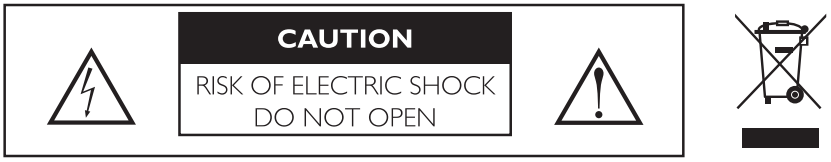
Thank you for purchasing this product. For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

WARNING

1. Do not expose this unit to water, moisture, or excessive humidity.
2. Do not install or place this unit in a built-in cabinet, or other confined space without adequate ventilation.
3. To prevent risk of electrical shock or fire hazard, due to overheating do not obstruct unit's ventilation openings.
4. Do not install near any source of heat, including other units that may produce heat.
5. Do not place unit near flames.
6. Only clean unit with a dry cloth.
7. Unplug unit during lightening storms or when not used for an extended period of time. A surge protector is strongly recommended.
8. Protect the power cord from being walked on or pinched, particularly at the plugs.
9. Use unit only with accessories specified by the manufacturer.
10. Refer all servicing to qualified personnel.

CAUTION

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



INTRODUCTION

The TEXONIC **DX series** multichannel power amplifiers are ideal for use in adding additional power in distributed audio systems or combining with the home theater applications. The DX850 provides 8 channels, DX1250 provides 12 channels of digital amplifications. All models designed in great features such as bridge mode operation, global and independent zone triggering, audio sense circuitry with delay time per zone, two Bus Inputs/Outputs and independent line inputs per zone to meet the wild range of audio applications and projects. All amplifiers are rated at 50 watts per channel into 8 ohms and 80 watts per channel into 4 ohms. With the Stereo/Bridge switch in the Bridge mode, each zone of channels are combined for a higher powered mono output of 160 watts into 8 ohms. With the high performance and ultra-low distortion output, DX series amplifiers provide the excellent of sound quality for the audio systems.

THERMAL PROTECTION

All DX series amplifiers are designed with special circuitry to safeguard the amplifier under a thermal overload condition. Thermal protection mode will only engage when the unit has been run at high volume for extended periods of time without adequate ventilation and/or when speaker impedances are below the minimum levels for the amplifier. In thermal protection mode the amplifier will automatically stop output. If this fault occurs, turn off the amplifier, and check that the speaker impedance rating is above the minimum rating. Also check for adequate ventilation around the amplifier and make adjustments if necessary. Once the unit has cooled to sage operating temperatures, the amplifier may be powered back on.

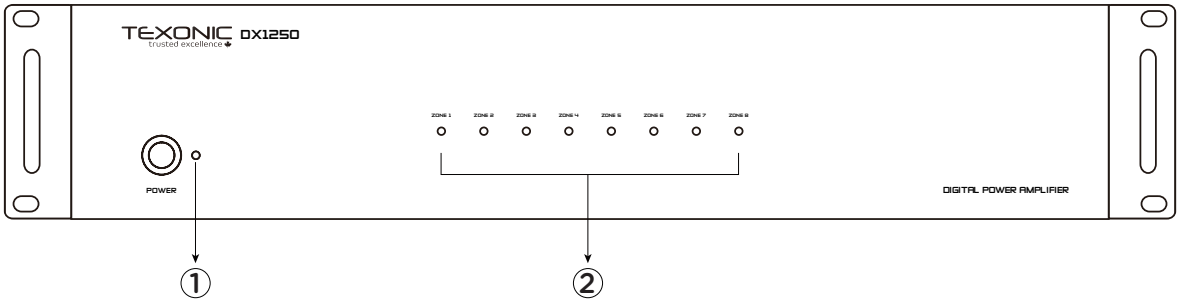
PROTECTION CIRCUITRY

Special circuitry has been designed into the amplifier to safeguard under a short-circuit condition. A faulty speaker can also cause a short circuit condition. The Zone LED will blink rapidly between Red and Blue If this fault condition occurs, turn off the amplifier and check speakers for short circuit conditions when appropriate.

INSTALLATION

The amplifier can be placed on a shelf in an equipment rack, or on a table or cabinet. Be sure the required clearances for ventilation and heat dissipation. The amplifier will take two rack spaces with the feet removed.

FRONT PANEL



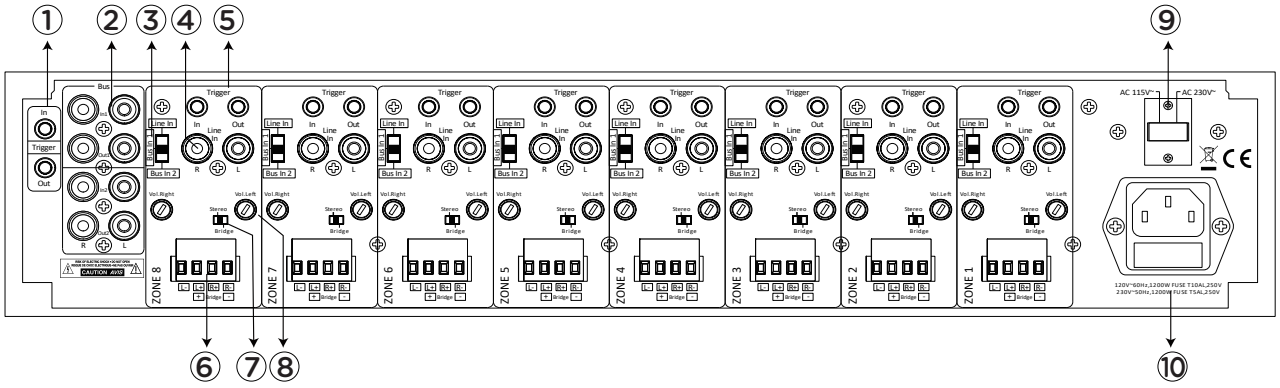
1. Power/Standby LED

This LED lights red when any zone is active or the amplifier is in standby mode.

2. Zone LED

Blue: the corresponding zone is powered on.
OFF: the corresponding zone is off (standby mode).
Red/Blue: A short circuit happens on the speaker outputs.

REAR PANEL



1. Bus 12VDC Trigger In/Out

The Bus 12VDC Trigger In is used to activate all zones that are using the Bus Input and disables other zone triggers or signal sensing on those zones when it is used. When the Bus 12VDC Trigger is used, all Bus-controlled zone LEDs will be blue and active.
If the Bus Trigger In has 12V applied to it, only the 12V Bus Trigger Out will have 12V and the Zone Trigger Outputs will not.

2. Bus Inputs/Outputs

The Bus Line Inputs are optional inputs that can be used to connect a single source to multiple zones. The Bus Line Outputs are passive pass through the corresponding of the Bus Inputs and can be used to daisy chain the source to other amplifiers in the system.

3. Line/Bus Switch

Switches the zone input to the Line Input, Bus Input 1 or Bus Input 2.

4. Line Input

The Line audio input for each zone is a dedicated sensing input that will activate the zone when an audio signal from a source is present.

5. 12VDC Trigger In/Out (Each Zone)

The Zone 12V Trigger In is used to activate a specific zone. The Zone Trigger Out can be used to trigger other 12V devices. The delay and audio sensing are bypassed when the 12V Zone Trigger Input is used. When a Zone Trigger is active, the zone LED will be blue. If no voltage is present in the Zone Trigger, the Zone LED will be off. Standby Mode The amplifier will go into Standby mode when audio signal or trigger is not present after 3 munites.

6. Speaker Outputs

The minimum speaker impedance is 4 ohms for Stereo Mode and 8 ohms for Bridge Mode.

7. Stereo/Bridge Switch

Selects the output mode of each zone for stereo or Bridge operation.

8. Gain Controls

Left and Right gain controls for each zone adjust the sound level independently.
Only using Left control to adjust the sound level when used in Bridge Mode.

9. Voltage Switch

AC 115V or AC 230V dual voltage selector.

10. AC Input

Apply the correct voltage before operate the amplifier.

SPECIFICATIONS

Power Output:
80W /Channel, 1KHz into 4 Ohms, One Zone Driven
50W /Channel, 1KHz into 8 Ohms, One Zone Driven
160W, 1KHz into 8 ohms, Bridge
Amplifier Channels:
DX850: 8 Channels, 4 Zones
DX1250: 12 Channels, 6 Zones
Signal-to-Noise Ratio: >90dB A-weighted
Frequency Response: 20Hz to 20KHz +1.7/-1dB at 1W output into 8 Ohms
Input Sensitivity: 600 mV for 80W @ 1 KHz 4 Ohm One Zone
700 mV for 50W @ 1 KHz 8 Ohm One Zone
Input Impedance: >22K Ohms Line Input
Trigger Inputs/Outputs: Bus and Zone @12VDC
Zone Line Input: Line In, Bus In 1, Bus In 2 select switch per zone
Bridge Mode: Select Stereo or Bridge mode per zone 8 Ohm only
Speaker Connectors: Detachable speaker terminals support up to 14awg wire
Delay Time: When audio signal or trigger is not present after 5 munites.
Power Requirements (Switchable):
DX850: 100-120VAC 60Hz 600W Max
DX1250: 100-120VAC 60Hz 900W Max
220-240VAC 50Hz 900W Max
Fuse Rating:
DX850: 100-120V/T5A, 250V
220-240V/T2.5A, 250V
DX1250: 100-120V/T8A, 250V
220-240V/T4A, 250V
Dimensions:
DX850: 16.81"W x 3.46" H x 16.14"D (42.7 x 8.8 x 41.0 cm)
DX1250: 16.81"W x 3.46" H x 16.14"D (42.7 x 8.8 x 41.0 cm)
Weight:
DX850: 8.6Kg (19lbs.)
DX1250: 9.3Kg (20.5lbs.)

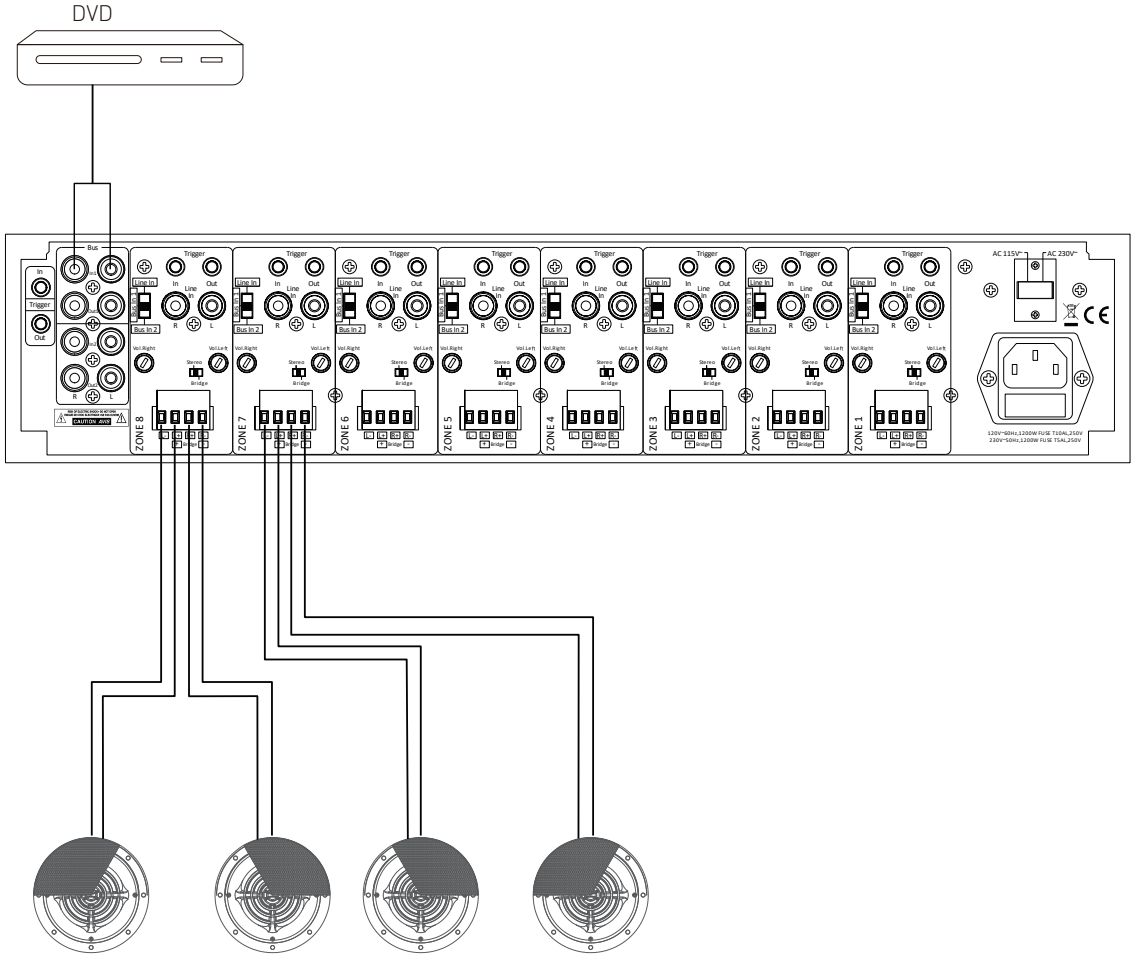
SYSTEM CONFIGURATION

Typical Mode

DX amplifiers can be configured as the main amplifier for an audio distribution system or home theater system. When used with an audio distribution preamp or Matrix processor, each zone can independently

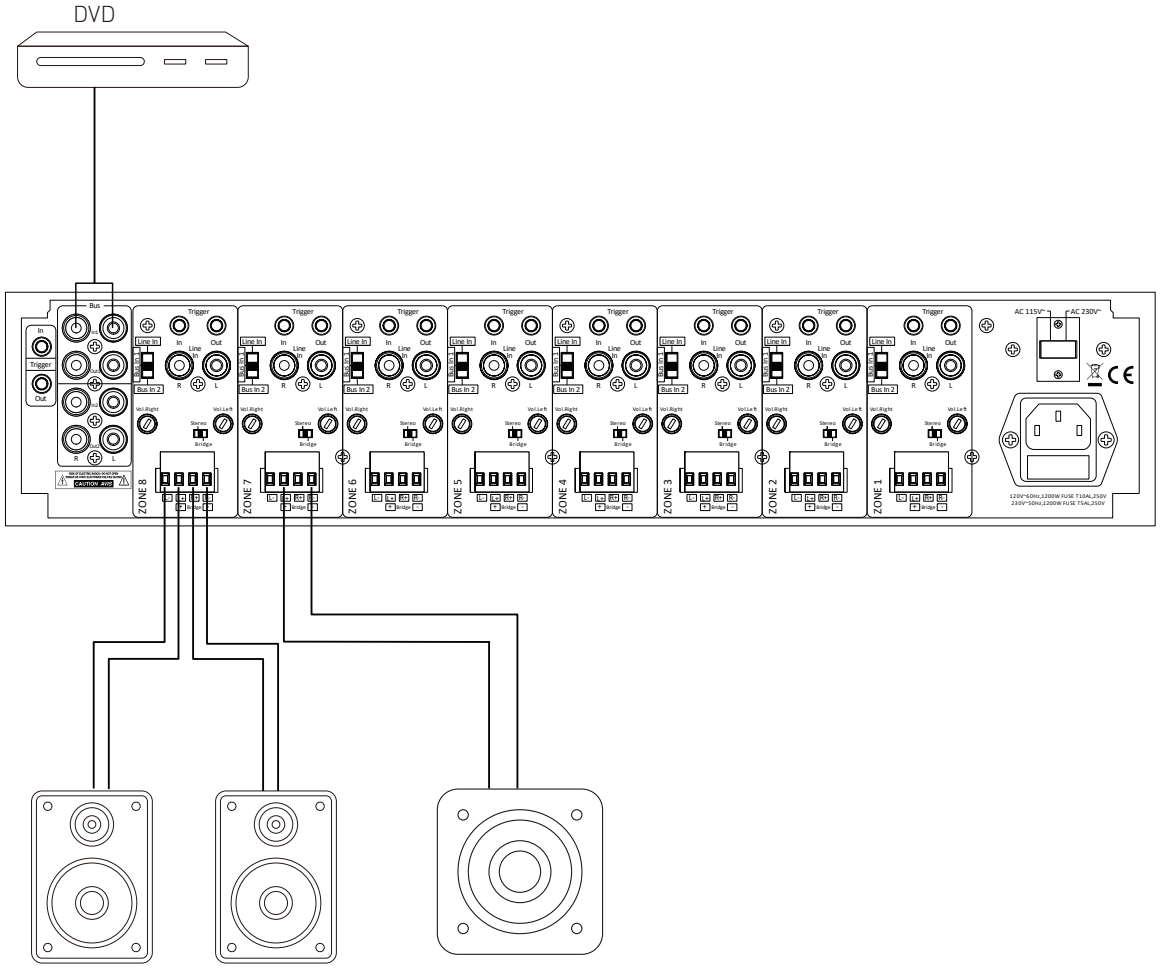
drive one of several different sources by using each zone's individual line audio inputs. If the specify zone needs a higher power, please just use Bridged mode.

When DX1250 or DX850 is working as a home theater amplifier, the amplifier could support up to a 7.1 or 5.1 surround system, and recommend using the Bridged mode to have the higher outputs.



Bridged Mode

When the amplifier is in Bridged mode operation, a single channel (the left) is used to provide a higher power mono output. Use one channel pair to amplify the left channel by connecting the left audio signal to the L input of a channel pair, setting the Stereo/Bridge switch to "Bridge" and connecting the speaker as indicated below. Use a second channel pair for the right channel by connecting the right audio signal to the L input of a second channel pair, setting the Stereo/Bridge switch to "Bridge" and connecting the speaker as indicated below



Wiring Instructions - Bridged Mode

* Turn off the amplifier and connect an 8-ohm minimum load.
* Set the Stereo/Bridge switch to Bridged Mode.
* Follow the Bridge mode markings on the back of the amplifier:
  Connect the negative lead (-) of the speaker cable to the R– terminal.
  Connect the positive lead (+) of the speaker cable to the L+ terminal.
* Apply the Line In from audio source to the Left Line In connector.
* Power on the amplifier.