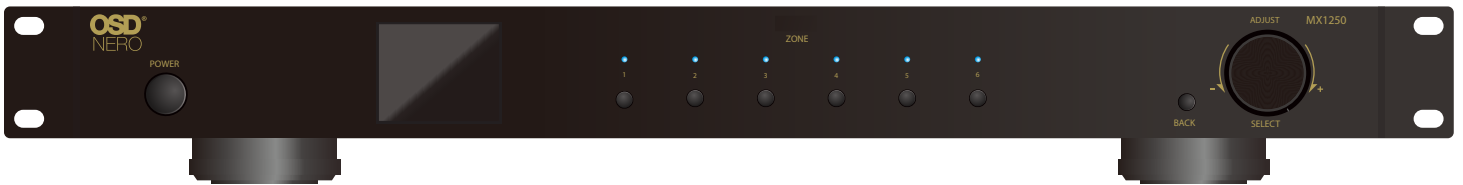


OSD[®] NERO



MX1250

MULTI ZONE AMPLIFIER OWNER'S MANUAL



WARNING

- TO PREVENT FIRE OR SHOCK HAZARD, DO NOT USE THIS PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.
- TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.
- TO PREVENT ELECTRICAL SHOCK, MATCH WIDE BLADE PLUG TO WIDE SLOT, FULLY INSERT.

 <p style="text-align: center; font-size: small;">This lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the use to the presence of un-insulated dangerous voltage within the products enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.</p>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <p style="margin: 0;">CAUTION</p> <p style="margin: 0; background-color: black; color: white; padding: 2px;">RISK OF ELECTRIC SHOCK DO NOT OPEN</p> </div> <p style="text-align: center; font-size: small;">This lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the use to the presence of un-insulated dangerous voltage within the products enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.</p>	 <p style="text-align: center; font-size: small;">The exclamation point within the equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying appliance.</p>
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IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions.
2. Keep these instructions.
- 3 Read all warnings.
- 4 Follow all Instruction.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturers instructions.
8. Do not install near heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. If the provided plugs does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at the plugs, convenience receptacles, and at the point where they exit form the appliance.
11. Only use attachments or accessories specified by the manufacturer.
12. Unplug the apparatus during lightning storms or when unused for long periods of time.
13. Refer all servicing to qualified personnel. Servicing is required when the apparatus has been damaged in anyway, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Introduction

The MX1250 is a 12-channel, 6-zone Class D amplifier designed for whole-home and multi-room audio systems, giving users the ability to power and control audio in up to six separate areas independently. Each zone can select its own source, adjust volume, and fine-tune sound with built-in EQ, making it ideal for both custom installations and advanced DIY setups. With flexible input options—including shared Bus inputs for whole-home audio and dedicated RCA inputs for individual zones—along with features like auto signal sensing, 12V trigger control, and efficient, cool-running performance, the MX1250 provides a powerful and scalable solution for distributing high-quality audio throughout residential or light commercial spaces.

Welcome to the OSD family.

1. Quick Description

The MX1250 is a 6-zone amplifier, which means:

You can play audio in up to **6 different areas (zones)**

Each zone has its own:

Volume

Audio source

Sound adjustment (bass, mid, treble)

Example:

Kitchen = Spotify

Patio = TV audio

Living Room = Internet radio

Each area works independently.

2. How Zones Work

Zone = 1 room or area

Each zone powers **one pair of speakers (left + right)**

You have:

Zone 1 - Zone 6

Each zone can choose **one of 3 audio sources:**

- **Bus 1** - shared source (like a streamer)
- **Bus 2** - another shared source
- **Direct Input (RCA)** - dedicated source for that zone

3. System Overview

Your system has 3 main parts:

1. Audio Sources

- Streamers (NERO SRT)
- TV / media player
- Music apps

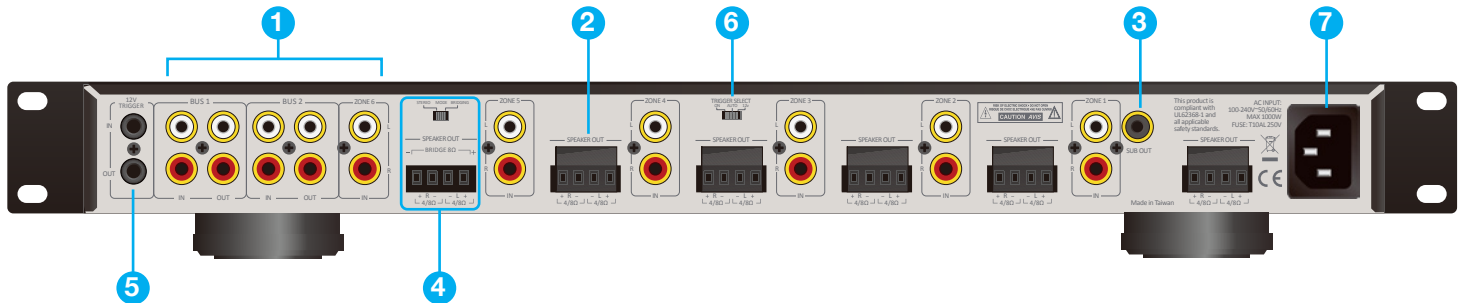
2. The Amplifier (MX1250)

- Receives audio
- Distributes it to zones

3. Speakers

- One pair per zone

Rear Panel



1. Audio Inputs

- **Bus 1 / Bus 2**
Shared across multiple zones
Use when multiple rooms play the same thing
- **Direct Inputs (per zone)**
One input per zone
Use when a room needs its own source

2. Speaker Outputs

One connector per zone

Connect:

- Left speaker
- Right speaker

3. Sub Output (Zone 1 only)

Connect a powered subwoofer

4. Zone 6 Bridge Mode

Combines power for one speaker/sub
Use only when needed (advanced)

5. 12V Trigger

Turns system on automatically from another device

6. Trigger Mode Switch

The amp has 3 ways to turn on:

- 1. ON**
Always on
- 2. Auto Sensing**
Turns on when audio is detected
Turns off when idle

- 3. 12V Trigger**
Turns on from another device (like a receiver)

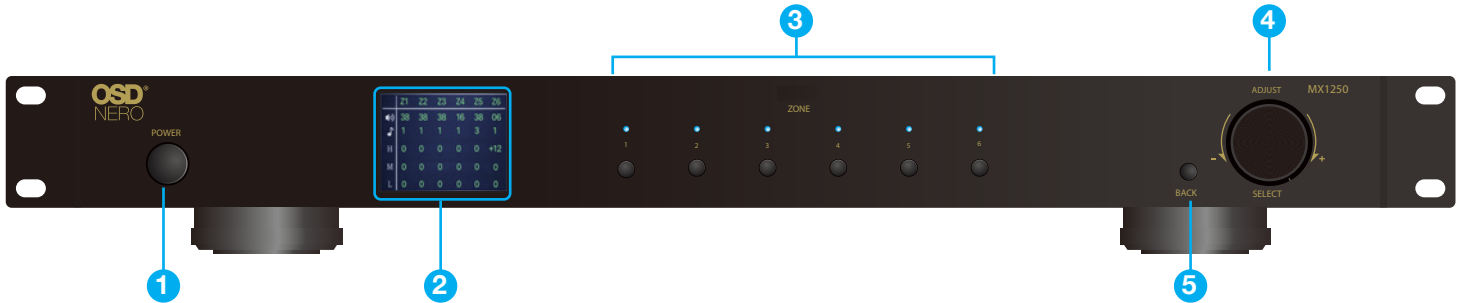
Note:

The main power switch must be ON for Auto or Trigger to work.

7. AC Power Cord Receptacle

100-240V 50Hz/60Hz 1500W Fuse T15AL 250V, CE Certified

Front Panel



1. Power Button

Power Button, three turn-on options: ON, Auto Music Sensing, and 12V Trigger. The Power Button must be on for Auto Sensing and the 12V Trigger to work. (See the rear panel for the selectable three-way Turn-on switch.)

2. Display

Digital Matrix Display, controls Volume Level, Source Selection, Source #1: Bus 1 Input, Source #2: Bus 2 Input, and Source #3: Direct Input RCA Zone. High, Mid, Low-Level EQ Adjust

3. Zone Buttons (Z1-Z6)

Select the room you want to control

4. Control Knob

Turn - change values
Press - move to next setting

5. Back Button

Go back one step

Understanding The Display

Each **column** = one zone

Each zone shows:

Volume (0–38)

Source (1–3)

H = Treble

M = Mid

L = Bass

	Z1	Z2	Z3	Z4	Z5	Z6
🔊	38	38	38	16	38	06
🎵	1	1	1	1	3	1
H	0	0	0	0	0	+12
M	0	0	0	0	0	0
L	0	0	0	0	0	0

How to Set Up a Zone (Step-by-Step)

Step 1 – Select Zone

Press a zone button (Z1–Z6)



Step 2 – Set Volume

Turn the knob
Range: 0–38



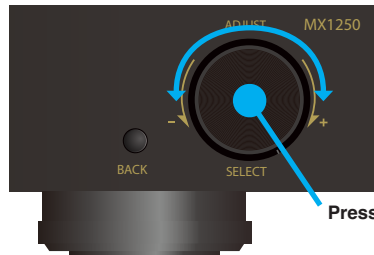
Volume →

	Z1	Z2	Z3	Z4	Z5	Z6
Speaker Icon	38	38	38	16	38	06
Music Note Icon	1	1	1	1	3	1
H	0	0	0	0	0	+12
M	0	0	0	0	0	0
L	0	0	0	0	0	0

Step 3 – Select Source

Press knob - rotate to choose:

- 1 = Bus 1
- 2 = Bus 2
- 3 = Direct Input



Source →

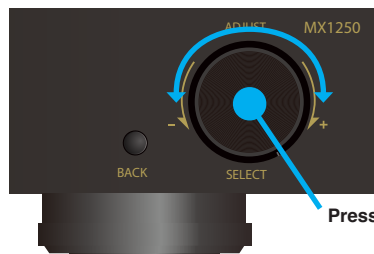
	Z1	Z2	Z3	Z4	Z5	Z6
Speaker Icon	38	38	38	16	38	06
Music Note Icon	1	1	1	1	3	1
H	0	0	0	0	0	+12
M	0	0	0	0	0	0
L	0	0	0	0	0	0

Step 4 – Adjust EQ Sound (Optional)

Press knob to cycle through:

- H** = Treble
- M** = Mid
- L** = Bass

Adjust from: -12 to +12 dB

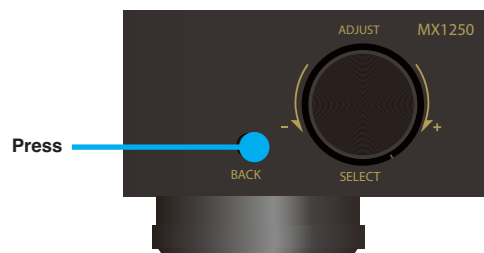


EQ →

	Z1	Z2	Z3	Z4	Z5	Z6
Speaker Icon	38	38	38	16	38	06
Music Note Icon	1	1	1	1	3	1
H	0	0	0	0	0	+12
M	0	0	0	0	0	0
L	0	0	0	0	0	0

Step 5 – Back Button

Press Back or select another zone



When To Use Each Source

Use Bus Inputs When:

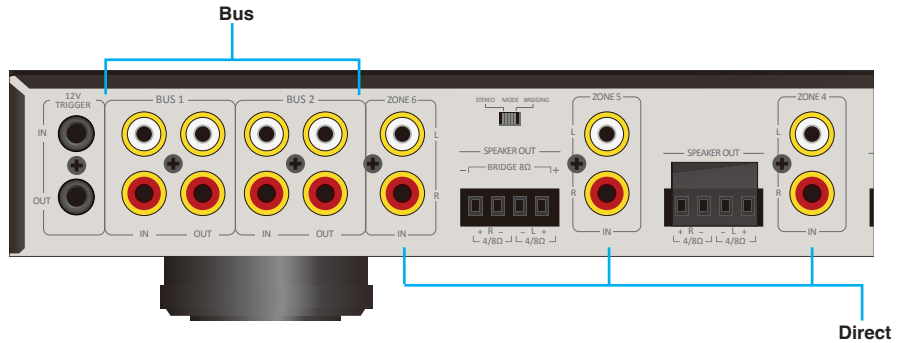
You want **same audio in multiple rooms**

Example:
Whole house music

Use Direct Input When:

You want **different audio per room**

Example:
Patio = TV
Bedroom = Spotify

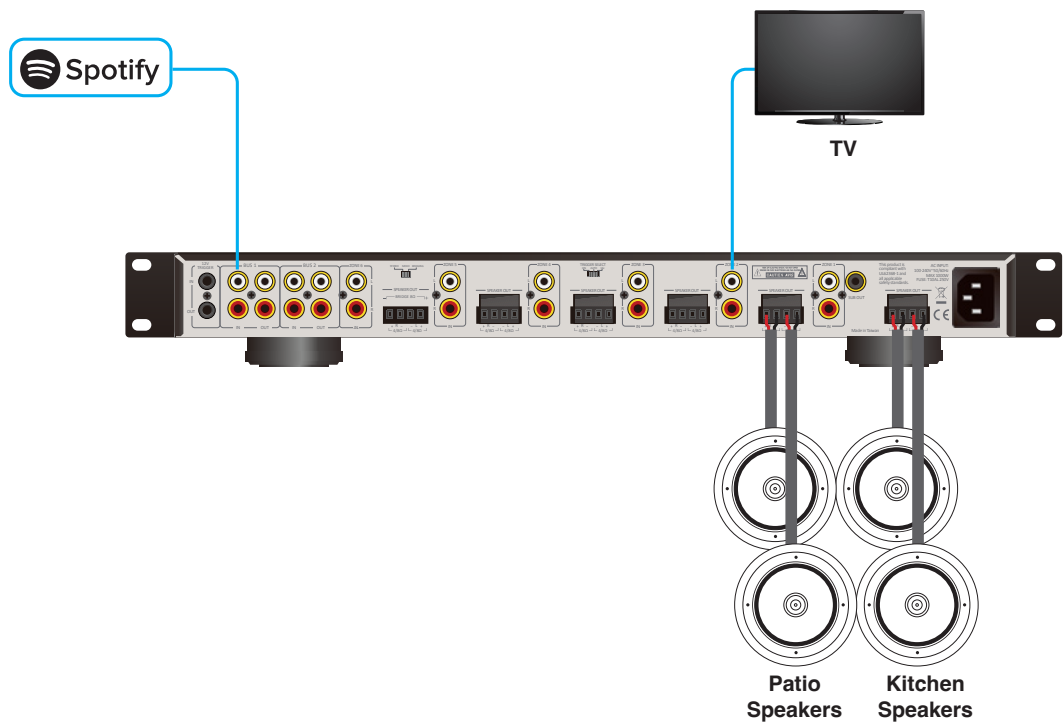


Example Setup

- Zone 1 - Kitchen - Spotify (Bus 1)**
- Zone 2 - Patio - TV (Direct Input)**

Kitchen:
Press Z1
Set volume
Select Source 1

Patio:
Press Z2
Set volume
Select Source 3



Important Tips

1. No Master Volume

Each zone is independent
- You must adjust each one separately

2. EQ is Per Zone

Use this to fix room sound:

Outdoor - increase bass
Bright room - reduce treble

3. Bus = Shared Audio

If multiple zones use Bus 1 - they all play the same thing

4. Bridge Mode (Zone 6 Only)

Doubles power
Use for subwoofer or high-power speaker
Do NOT use for normal stereo pairs

Protection

The amplifier protects itself from:

Overheating
Short circuits

If it shuts down:

Check speaker wiring
Check impedance (too many speakers can overload it)

Trouble Shooting Common Problems

No Sound

Check zone is ON
Check correct source selected
Check wiring

Turns Off Automatically

Likely in Auto Sensing mode
No audio detected

One Room Not Working

Check zone's input and speaker wiring are correctly connected

Audio Features

Item	Specification
Amplifier Type	Class D (IR4302)
Output Power (4Ω)	50W RMS / 100W Peak per channel
Output Power (8Ω)	25W RMS / 50W Peak per channel
Bridge Mode (Zone 6)	100W RMS / 200W Peak @ 8Ω
Frequency Response	20 Hz – 20 kHz (±0.5 dB)
Signal-to-Noise Ratio	99–100 dB (A-weighted)
Impedance	Stable at 4Ω and 8Ω
Channels / Zones	12 Channels / 6 Zones

Input / Output, Indicating & Control Features

Item	Specification
Line Inputs	Bus 1, Bus 2, Direct RCA per zone (L/R)
Bus Inputs/Outputs	Yes (shared + daisy chain)
Sub Output	1 x RCA (Zone 1 only)
Speaker Outputs	Phoenix connectors (Zones 1–6)
Bridge Mode	Zone 6 only (Left input used)
Volume Control	0–38 dB via encoder
EQ Control	High / Mid / Low (-12 dB to +12 dB)
Source Selection	Bus 1 / Bus 2 / Direct
Display	2" Digital Matrix LCD
Zone Control	Individual ON/OFF
Trigger	12V Bus Trigger
Auto Sensing	Yes
Turn-On Modes	ON / Auto / 12V

Power, Design, Materials, Dimensions, and Weight

Item	Specification
Power Supply	PFC Switching Power
Power Requirements	100–240V, 50/60 Hz
Power Consumption	~800W max
Rack Mountable	Yes (1U)
Dimensions	434 × 353.5 × 44 mm
Weight	Net: 5.4 kg/11.905 Lbs. / Gross: 6.8 kg/14.99 Lbs.

WARRANTY INFORMATION

OSD NERO electronics have (2) year Limited Warranty against defects in materials and workmanship. Proof of purchase must accompany all claims. During the warranty period OSD Audio will replace any defective part and correct any defect in workmanship without charge for either parts or labor.

OSD Audio may replace returned electronics with a product of equal value and performance. In such cases, some modifications to the mounting may be necessary and are not OSD Audio's responsibility.

For this warranty to apply, the unit must be installed and used according to its written instructions. If necessary, repairs must be performed by OSD Audio. The unit must be returned to OSD Audio at the owner's expense and with prior written permission. Accidental damage and shipping damage are not considered defects, nor is damaged resulting from abuse or from servicing performed by an agency or person not specifically authorized in writing by OSD Audio.

OSD Audio sells products only through authorized dealers and distributors to ensure that customers obtain proper support and service. Any OSD Audio product purchased from an unauthorized dealer or other source, including retailers, mail order dealers and online sellers will not be honored or serviced under existing OSD Audio warranty policy. Any sale of product by an unauthorized source or other manner not authorized by OSD Audio shall void the warranty on the applicable product.

Damage to or destruction of components due to application of excessive power voids the warranty on those parts. In these cases, repairs will be made on the basis of the retail value of the parts and labor. To return for repairs, you must email customer service at RMA@audiogeargroup.com for a Returned Merchandise Authorization (RMA) number then the unit must be shipped to OSD Audio at the owner's expense, along with a note explaining the nature of service required. Be sure to pack the product(s) in a corrugated container with at least 3 inches of resilient material to protect the unit from damage in transit.

This Warranty Does Not Cover: Damage caused by abuse, accident, misuse, negligence, or improper operation (installation) • Any products that have been altered or modified • Any product whose identifying number of decal, serial #, etc. has been altered, defaced or removed • Normal wear and maintenance.

