

NADY[®]
AUDIO

OWNERS MANUAL

PORTABLE SYSTEM



MaxTower[™]

PAS-250

PORTABLE PA SYSTEM

MaxTower™ PAS-250



www.nady.com

Thank you for purchasing the NADY MaxTower™ PAS- 250 PA System — you have purchased one of the finest portable sound systems on the market today. This unit was developed using the expertise of professional sound engineers and working musicians. You will find that your new NADY MaxTower™ PAS-250 has superior performance and greater flexibility than any other portable sound systems in its price range. Please read this manual carefully to get the most out of your new unit.

**Thank you for selecting Nady Audio to
meet your Portable PA needs!**

FEATURES

- 250W RMS class D amplifier provides high efficiency and cool operation
- Eight 3" line array high-excursion piston speakers
- 2 XLR-1/4" combo inputs with independent control and 10dB attenuator switch
- Selectable 48V phantom power for condenser microphones
- Constructed of durable, lightweight polymer composite material
- Balanced XLR output with independent level control connects to optional powered subwoofer (sold separately)
- Separate EQ control on each channel
- DSP Reverb with Level controls for each channel
- Main level control with mute switch
- Tripod speaker stand and nylon carrying bag included for easy setup and transport

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Date of Purchase _____

Dealer's Name _____

City _____

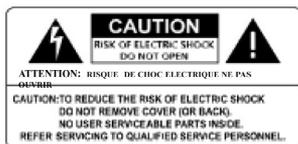
State _____

Zip _____

Model # _____

Serial # _____

WARNING



An equilateral triangle enclosing a lightning flash/arrowhead symbol is intended to alert the user to the presence of non-insulated "dangerous voltage" within the product's enclosure which may be of sufficient magnitude to constitute a risk of electric shock.



An equilateral triangle enclosing an exclamation point is intended to alert the user to the presence of important operating and service instructions in the literature enclosed with this unit.

IMPORTANT SAFETY INSTRUCTIONS

Your MaxTower is made of a very durable polymer composite material. However, extra care should be taken to protect the finish and speakers. These simple tips will help reduce wear and tear on your MaxTower.

1. Read all instructions before using.
2. Avoid direct contact with the speaker. Care should be taken to avoid damage to speakers.
3. Do not use or store around excessive moisture.
4. At very high volume this product may be capable of producing sound levels that could cause hearing damage. Do not operate at uncomfortable levels for prolonged periods. If hearing loss or ringing in ears is experienced, consult a physician.
5. The MaxTower should be positioned so that proper ventilation is maintained.
6. Keep away from heat sources such as radiators, heat vents, and other devices (including amplifiers) that produce heat.
7. The MaxTower should be connected to a power supply described in the operating instructions or as marked. Replace fuse with correct type, size, and rating.
8. The power supply cord should: (1) be undamaged, (2) never share an outlet or extension cord with other devices so that the outlet has exceeded the maximum rating, and (3) never be left plugged into the outlet when not being used for a long period of time.
9. This product should be serviced by qualified service personnel if:
 - The power supply cord or the plug has been damaged.
 - One of the speakers has been damaged.
 - There has been excessive exposure to rain.
 - The MaxTower does not appear to operate normally or exhibits a change in performance.
 - The unit has been dropped, or the enclosure damaged.
 - Do not attempt to service the product beyond what is described in these instructions. All other repairs should be referred to qualified service personnel.
 - Clean only with damp cloth.
 - Use only with the supplied Nady stand.
 - Units designed with Class-I construction (like the MaxTower) must be connected to an outlet with a grounded connection.

STATEMENT OF RoHS COMPLIANCE

The included electronic parts and components are covered by the European Union Removal of Hazardous Substances directive 2002/95/EC (RoHS). This directive seeks to eliminate the toxic substances released during manufacturing processes to ensure that disposed of materials do not pose health risks. Considered toxic substances are lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB) and polybrominated diphenylethers (PBDE). Lead is used together with tin in solder connections to reduce the melting point of solder. Lead-free solder requires higher soldering temperatures which in turn places greater thermal stress on components.

The MaxTower complies with RoHS directives and uses components that are certified RoHS compliant.

INSTALLATION & OPERATION

Please read this manual thoroughly before using.

INSPECTION

Your MaxTower was carefully packed at the factory in packaging designed to protect the unit in shipment. Before installing and using your unit, carefully examine the packaging and all contents for any signs of physical damage that may have occurred in transit.

CONTENTS

- Instruction manual
- MaxTower PAS-250 (verify unit's serial number is same as shown on shipping carton)
- AC power cord
- Tripod speaker stand
- Nylon carrying bag

SETTING UP

The MaxTower and stand fit securely in the supplied padded bag.

- Open the bag and remove the stand.
- Loosen the knobs, set up the stand, select height.
- Insert the metal pin through the stand.
- Tighten the knobs to secure.
- Remove MaxTower from the padded bag.
- Place MaxTower on stand securely through bottom mounting hole.
- Plug the **AC power cord** into the **rear panel jack (11)**, then power cord into a nearby power outlet. The MaxTower has an internal power supply and is designed to operate from an external AC source (Power Range: AC 100~240V, 50/60Hz (+/- 10%). Make sure that the unit is turned off before connecting to the **AC power source** to avoid possible loud transients that can damage your speakers or your ears, especially when monitoring with headphones.
- Turn on unit with **Power ON/OFF Switch (13)** on rear panel. The **Power On LED (1)** will light.
- Plug in mic or instrument, make any necessary adjustments, setting **channel gain**, **EQ**, and **reverb**.

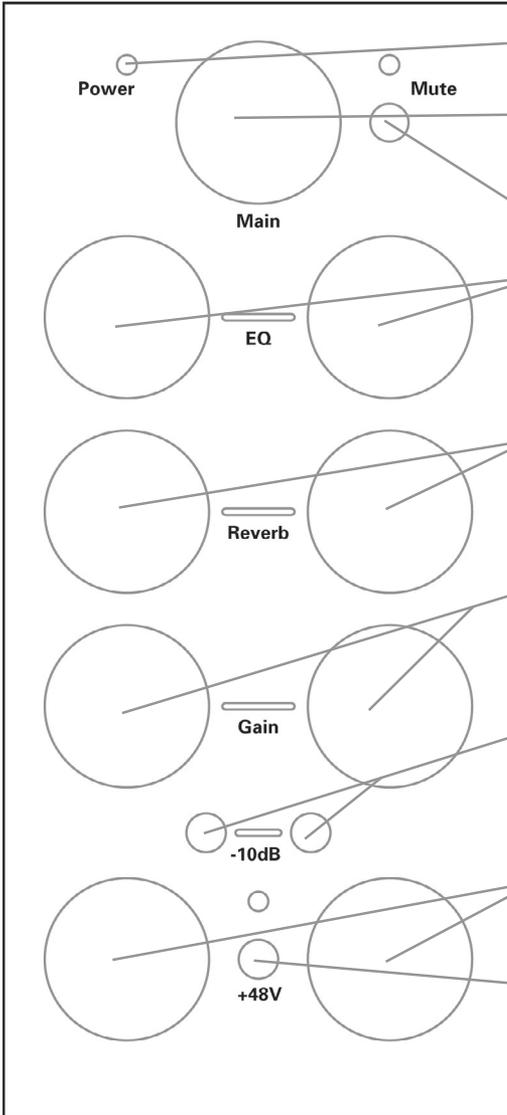
- **Master volume (2)** controls the level of the main power amplifier.

NOTE: The MaxTower can be set to very high sound levels. To protect the system from damage, included is an active protection circuit. At high sound levels this active protection will lower the output until the volume is adjusted.

CONTROLS AND CONNECTIONS

- The front panel has **2x combo XLR-¼ (8)** input jacks for the following inputs: ¼" instrument level, ¼" line level, XLR dynamic microphone, XLR condenser microphone, & XLR line level
- **10dB attenuation pad button (7)** next to each input jack to best match the level of each input source.
- **Phantom power button (9)** switches on and off 48VDC phantom power to both channels simultaneously for using a condenser microphone with an XLR plug. NOTE: Sending 48VDC phantom power to the XLR plug of a dynamic microphone will not typically harm the microphone. However to avoid possible damage, we recommend that you verify this for any specific dynamic microphone prior to using phantom power.
- **Gain adjustment knob (6)** adjusts the input sensitivity. NOTE: The gain knob can be used to avoid distortion and feedback with high level signals. It is best to begin with the gain lower to avoid damaging the power amplifier section.
- **Reverb knob (5)** is used to control the level of reverb for each channel.
- **EQ knob (4)** adjusts the low & high frequencies. Top center (detent position) enables flat operation (no EQ effect). Turning the knob to the right increases the level of treble and reduces the bass level. Turning the knob to the left increases the bass level and reduces the treble.
- **Mute button (3)** mutes both channels. A small red LED is on when the mute is active. The mute button shuts off the signal to both the internal power amplifier and to the rear line output, so that inputs can be swapped or instrument or mic adjustments can be made without unwanted noise.

FRONT PANEL CONTROLS & CONNECTIONS



(1) **POWER ON LED**

(2) **MAIN LEVEL CONTROL**
Summed output volume adjust

(3) **MAIN MUTE SWITCH**
For quick removal of all audio

(4) **EQ CONTROLS (CHANNELS 1 & 2)**
Clockwise increases treble
Counter-clockwise increases bass

(5) **REVERB LEVEL (CHANNELS 1 & 2)**
Controls level of reverb for each channel

(6) **CHANNEL INPUT GAIN**
Increase/Decrease channel input sensitivity, depending on type of input source

(7) **10DB ATTENUATOR**
Decreases level of individual channel gain when pressed

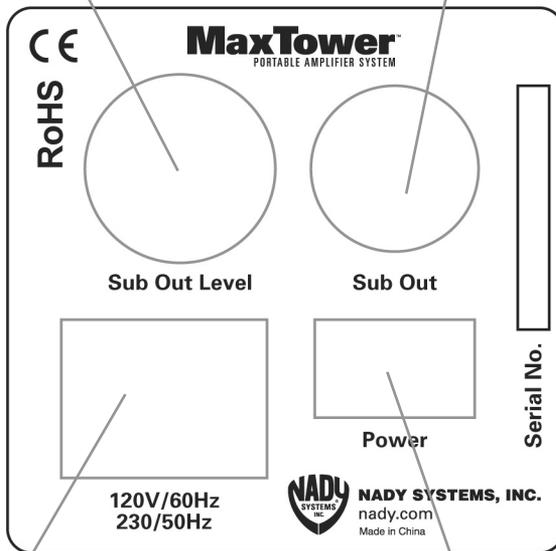
(8) **COMBO XLR - 1/4" INPUT**
For proper connection of instruments, microphones, and other audio sources

(9) **48V PHANTOM POWER**
Supplies additional +48VDC for powering condenser microphones

REAR PANEL CONTROLS & CONNECTIONS

(10) **LINE OUTPUT LEVEL**
Control Adjusts volume of
XLR line output

(12) **BALANCED XLR LINE OUT**
With separate level control,
for connecting to external
powered subwoofer or
additional audio source



(11) **AC CORD INPUT**
Built-in internal 120V/240V
switching power supply

(13) **ON/OFF SWITCH**

SPECIFICATIONS

AMPLIFIER AND SPEAKER SYSTEM

POWER250W RMS @ 6 Ω, 1%THD at 1kHz

S/N RATIO 56.5dB

THD≤0.17% @1kHz ≤0.63%@1kHz

SPEAKERS 3" Woofer, 6Ω

FREQUENCY RESPONSE 100kHz - 18KHz (±3dB)

SENSITIVITY @ INPUT & OUTPUT

- Mic/Line..... -37dB
- Max Input Level XLR -16dBv
- Max Input Level 1/4" +9dB
- Max Output Level XLR.....26dB

EQUALIZATION.....Single knob, clockwise increases treble; counter-clockwise increases bass

POWER REQUIREMENTS 100-120 VAC, 220-240 VAC, 50-60Hz

DIMENSIONS (H X W X D).....8.6" x 35.8" x 3.5" (21.8cm x 90cm x 9cm)

WEIGHT.....20bs. (8.8 Kg)

The specifications above are correct at the time of printing of this manual. For improvement purposes, all specifications for this unit, including design and appearance, are subject to change without prior notice.

SERVICE FOR YOUR NADY AUDIO PRODUCT

Please do not return our product to the store where it was purchased. Nady Systems, Inc. assumes the responsibility of keeping you a satisfied customer.

DO NOT ATTEMPT TO SERVICE THIS UNIT YOURSELF AS IT CAN BE DANGEROUS AND WILL ALSO VOID THE WARRANTY.

If factory service is required, please call our Service Department at 510/652-2411 or e-mail service@nady.com for a return authorization (RA) number. Make sure the RA number is clearly marked on the outside of the package. If unit is past the One Year Warranty, The Nady Service Department will provide a quote for service or replacement. Please make sure a cashier's check or money order is enclosed (if not prepaid with credit card) with the shipment to Nady.

If unit is within the One Year Warranty from purchase, please check Warranty terms for further instruction before sending in unit.

Nady Systems will not repair nor be held responsible for any units sent without proper identification and return address or RA number clearly marked on the package.

For service, please ship units prepaid to:

Nady Systems, Inc., Service Department, 6701 Shellmound St., Emeryville, CA 94608

ONE YEAR WARRANTY

Nady Systems, Inc. warrants to the original consumer purchaser that your unit is free from any defects in material or workmanship for a period of one year from the date of purchase. If any such defect is discovered within the warranty period, Nady Systems, Inc. will repair or replace the unit free of charge, subject to verification of the defect or malfunction upon delivery or shipping prepaid to Nady Systems.

This warranty does not apply to defects or physical damage resulting from abuse, neglect, accident, improper repair, alteration, or unreasonable use of the unit resulting in cracked or broken cases or parts, or units damaged by excessive heat, and does not apply to batteries or damage caused by leaking batteries. This warranty does not cover finish or appearance items nor items damaged in shipment en route to Nady Systems, Inc. for repair. You must include proof of date and place of purchase (i.e., photocopy of your bill of sale) or we cannot be responsible for repairs or replacement. See Service section for further instructions.

Any applicable implied warranties including warranties of merchantability and fitness are hereby limited to one year from date of purchase. Consequential or incidental damages resulting from a breach of any applicable express or implied warranties are hereby excluded. This warranty is in lieu of all other agreements and warranties, general or special, express or implied and no representative or person is authorized to assume for us any other liability in connection with the sale or use of this Nady Systems' product.

Note: Some states do not allow limitations on how long implied warranties last and do not allow exclusion of incidental or consequential damages, so the above limitations and exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which may vary from state to state.

International Customers: For service, please contact the NADY AUDIO distributor in your country via the dealer from whom you purchased this product.



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