

# USER GUIDE

# PM-100

## Personal Stage Monitor

Congratulations on purchasing the Nady Audio PM-100 personal stage monitor. You have just purchased one of the finest personal stage monitors on the market today. The PM-100 was developed using the expertise of professional sound engineers and working musicians. You will find your new Nady Audio stage monitor has superior performance and greater flexibility than any other stage monitor in its price range.

## Features

- Designed to reduce stage clutter and volume by putting the sound where you can most use it — the compact, rugged, lightweight PM-100 can be mounted on a mic stand (with built-in mic stand mount), used as an up-close monitor on a keyboard, or as a stage monitor with four different angled positions for optimum placement and versatility
- Specially designed dual ferro-fluid 5" drivers offer 200W peak power handling capacity, superior gain before feedback and up to 125dB maximum SPL
- Uniquely tuned response projects audio at the desired frequencies to cut through stage noise while ensuring high feedback immunity
- Volume/Impedance selector and two ¼" In/Out jacks for performer adjustability and easy daisy-chaining with up to 15 other PSM-100 monitors

## Warnings

- Read all instructions before using the product.
- This product may be capable of producing sound levels that could cause permanent hearing loss. Do not operate for a long period of time at a high volume level or at a level that is uncomfortable. If you experience any hearing loss or ringing in the ears, you should consult an audiologist.
- To avoid damage to the drivers, never overload the speaker.
- To avoid the risk of fire, do not ever expose the speaker to a source of naked flames. Also, it should be located away from heat sources such as radiators, heat vents, or other devices (including amplifiers) that produce heat.
- The product should be positioned so that proper ventilation is maintained.
- This speaker is designed for indoor use only. Do not expose to weather or high humidity, rain, etc.
- Care should be taken so that objects do not fall into, and liquids are not spilled through, the enclosure's openings. Do not place containers of liquids on the speaker.
- The product should be connected to a power supply only of the type described in the operating instructions or as marked on the product. Replace the fuse only with one of the specified type, size, and correct rating.



## Specifications

<b>Power Handling:</b>	200W Peak (100W RMS)
<b>Sensitivity:</b>	96dB (1W @ 1M 1KHz)
<b>MAX SPL:</b>	125dB
<b>Frequency Response:</b>	125Hz~19KHz
<b>Weight:</b>	5.1 lbs. (2.3kg)
<b>Dimensions (HWD):</b>	11.1" x 7" x 5.3" (28cm x 18cm x 13.5cm)

*Specifications subject to change at any time without prior notice for purposes of product improvement*

- The power supply cord should: (1) be undamaged, (2) never share an outlet or extension cord with other devices so that the outlet's or extension cord's power rating is exceeded, and (3) never be left plugged into the outlet when not being used for a long period of time.
- Don't place any heavy appliance or object on the speaker enclosure.
- This product should be serviced by qualified service personnel if:
  - A. Objects have fallen into, or liquid has been spilled onto the product.
  - B. The product has been exposed to rain.
  - C. The product does not appear to operate normally or exhibits a marked change in performance.
  - D. The product has been dropped, or the enclosure damaged.
- Do not attempt to service this unit. All servicing should be referred to qualified service personnel.

# Operation

## Volume / Impedance Control

Setting	Impedance	dB Reduction	
1	136Ω	-14dB	Counter-Clockwise
2	94Ω	-12dB	
3	64Ω	-10dB	
4	48Ω	-7dB	
5	32Ω	-5dB	
6	24Ω	-3dB	
7	16Ω	0dB	Fully Clockwise

## Total Impedance

Knowing the total impedance of your speakers allows you to properly match your amplifier with your speakers.

Also, many amplifiers are not capable of powering loads less than 4Ω so it is important to ensure that the total impedance is not too low. Use the following formulas to figure the total impedance of a set of daisy-chained speakers.

If all speakers have the same impedance use this formula:

$$\frac{\text{Impedance of each speaker}}{\text{Number of speakers}} = \text{Total Impedance}$$

## Service Information

**In the U.S.** If you are experiencing operational problems with your system, please refer to the Support page at [www.nady.com](http://www.nady.com) for assistance. Should your wireless system require service, please contact the Nady Service Department at (510) 652-2411 to obtain a Return Authorization (R/A) Number and service quote (if out of warranty). Make sure the R/A Number is clearly marked on the outside of the package that you are returning.

If your unit is out of warranty, please enclose a cashier's check or money order (or pay by credit card) per instructions by the Nady Service Department. Ship your unit prepaid to: Nady Systems, Service Department, 6701 Shellmound Street, Emeryville, CA 94608. Include a brief description of the problem you are experiencing. For service of a unit under warranty, please follow the instructions in the following section.

**Outside the U.S.** For service or warranty matters please contact the Nady distributor in your country through the dealer/store from which you purchased this product.

**Do not attempt to service this unit yourself as it can be dangerous and will also void the warranty.**

## One Year Warranty

Nady Systems, Inc. warrants to the original consumer purchaser (U.S.A. only) 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.

**Important:** Please do not return our product to the store where it was purchased. Nady Systems, Inc. accepts the responsibility of keeping you a satisfied customer. 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. If factory service is required, you must contact our Service Department at 510/652-2411 for a return authorization (RA) number. Make sure the RA number is clearly marked on the outside of the package.

Nady Systems, Inc. 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, ship units prepaid to: Nady Systems, Inc., Service Department, 6701 Shellmound St., Emeryville, CA 94608.

For example: To figure the total impedance of five PM-100 monitors, daisy-chained together with each set to

2Ω, the equation would be as follows:

$$24\Omega / 5 \text{ Speakers} = 4.8\Omega \text{ Total Impedance}$$

If speakers with different impedances are daisy-chained use this formula:

$$\frac{1}{\frac{1}{Z1} + \frac{1}{Z2} + \frac{1}{Z3} + \frac{1}{Z4} + \frac{1}{Z5} \dots}$$

Z represents the impedance of each speaker.

For example: To figure the total impedance of five PM-100 monitor, daisy-chained together, with impedance

64Ω, 32Ω, 32Ω, 24Ω, and 16Ω do the following:

$$\frac{1}{\frac{1}{64\Omega} + \frac{1}{32\Omega} + \frac{1}{32\Omega} + \frac{1}{24\Omega} + \frac{1}{16\Omega} \dots} = 5.5\Omega \text{ Total Impedance}$$

