

NADY[®] AUDIO

Features, Instructions & Technical Data

PM-100

Personal Stage Monitor



Congratulations!

You have just purchased one of the finest personal stage monitor 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.

We recommend that you read this instruction sheet carefully to get the most out of your new unit. Thanks for selecting NADY AUDIO and the PM-100 as your choice in personal stage monitors.

FEATURES AND SPECIFICATIONS

- 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 4 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 1/4" IN/OUT jacks for performer adjustability and easy daisy-chaining with up to 15 other PSM-100 monitors
- Power Handling: 200W Peak (100W RMS)
- Sensitivity: 96dB (1W @ 1M 1KHz)
- MAX SPL: 125dB
- Frequency Response: 125Hz~19KHz
- Weight: 5.1 lbs. (2.3kg)
- Dimensions (HWD): 11.1" x 7" x 5.3" (28 cm x 18 cm x 13.5 cm)

WARNINGS IMPORTANT SAFETY INSTRUCTIONS

When using this speaker, basic precautions should always be taken, including the following:

- 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.
- 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:

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

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:

$$2\Omega / 5 \text{ Speakers} = 4.8\Omega \text{ Total Impedance}$$

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:

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

OPTIONAL ACCESSORIES

- MST-3R — Straight stand with round base
- MST-5B — Boom stand with tripod base
- SC-20 — 20', 18-gauge, 1/4"-1/4" phone plug, speaker cable
- SC-40 — 40', 18-gauge, 1/4"-1/4" phone plug, speaker cable

SERVICE FOR YOUR NADY AUDIO PRODUCT

(U.S.) Should your NADY AUDIO product require service, please contact the Nady Service Department via telephone at (510) 652-2411 or e-mail at service@nady.com.

(International) For service, please contact the NADY AUDIO distributor in your country through the dealer from whom you purchased this product.



NADY SYSTEMS, INC. • 6701 SHELLMOUND STREET, EMERYVILLE, CA 94608
Tel: 510.652.2411 • Fax: 510.652.5075 • www.nady.com