

NADYTM
AUDIO

OWNER'S MANUAL



MM4

4 Channel Stereo Mini Mixer

MM4

4 CHANNEL 8 INPUT STEREO MINI MIXER



Congratulations!

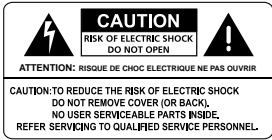
You have purchased one of the finest and most versatile mini mixers on the market. The MM4 can be a most useful tool for many of your home studio applications, including use with PCs. You will find it has superior performance and greater flexibility than any other mini mixer in its price range. Read this manual carefully to get the most out of your unit. Thanks for selecting NADY AUDIO as your choice in mini mixers.

Date of Purchase _____
Dealer's Name _____
City _____
State _____ Zip _____
Model # _____ Serial # _____

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WARNING



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



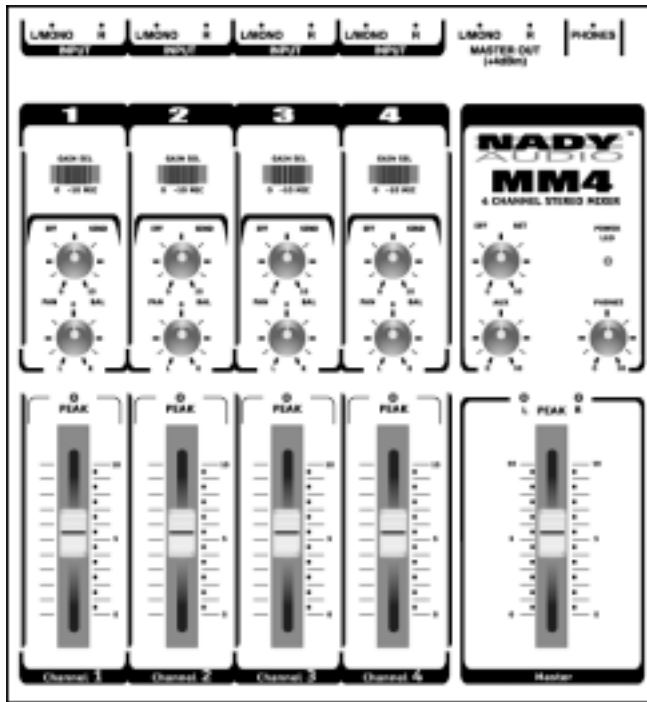
An equilateral triangle enclosing an exclamation point is intended to alert the user to the presence of important operating and service instructions in the literature enclosed with this unit.

IMPORTANT SAFETY INSTRUCTIONS

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

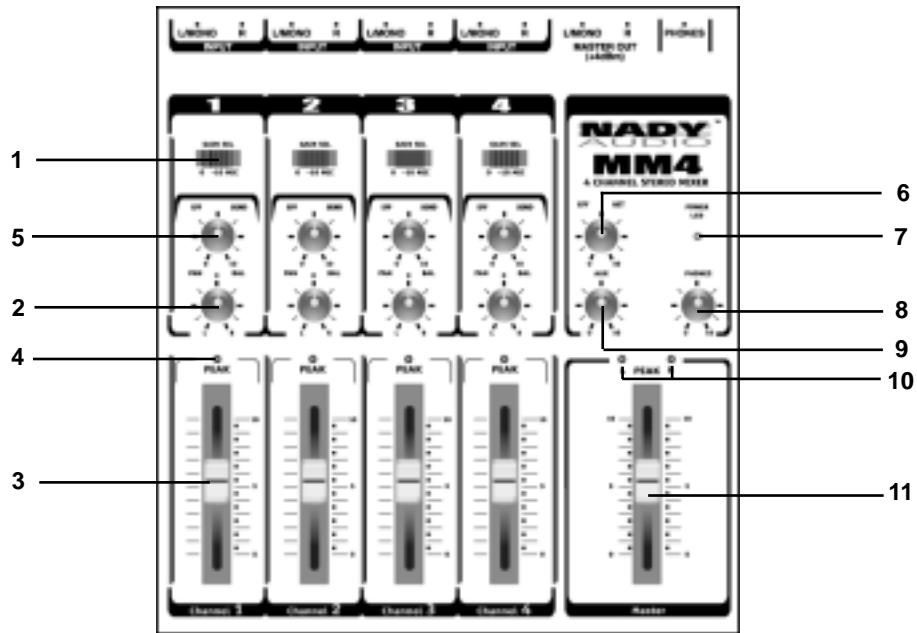
1. Read all instructions before using the product.
2. Do not use this product near water (e.g., near a bathtub, washbowl, kitchen sink, in a wet basement, or near a swimming pool, etc.).
3. This product should be used only with a cart or stand that will keep it level and stable and prevent wobbling.
4. This product, in combination with headphones or speakers, 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.
5. The product should be positioned so that proper ventilation is maintained.
6. The product should be located away from heat sources such as radiators, heat vents, or other devices (including amplifiers) that produce heat.
7. 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.
8. 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.
9. Care should be taken so that objects do not fall into, and liquids are not spilled through, the enclosure's openings.
10. The product should be serviced by qualified service personnel if:
 - A. The power supply cord or the plug has been damaged.
 - B. Objects have fallen into, or liquid has been spilled onto the product.
 - C. The product has been exposed to rain.
 - D. The product does not appear to operate normally or exhibits a marked change in performance.
 - E. The product has been dropped, or the enclosure damaged.
11. Do not attempt to service the product beyond what is described in the user maintenance instructions. All other servicing should be referred to qualified service personnel.

FEATURES



- Perfect for a variety of small home studio applications, including use with PCs.
- Low noise and transparent audio
- 8 inputs (1/4" phone)
- Stereo outputs (1/4" TRS jacks)
- Gain select switch on all channels to accommodate all types of input levels from any source: mics, cassette and CD players, instruments, keyboards, PCs, etc.
- Two MM4s can be easily cascaded for increased channel capacity
- Independent headphone output with dedicated volume control
- L/R Aux In, Stereo Effects Send/Return, Stereo Effects sub in jacks (especially useful for cascading)
- Channel L/R pan and Effect controls
- Master fader and effects return and aux level controls
- All controls have center detents
- Channel and Master L/R peak LED indicators

FRONT PANEL CONTROLS



1. INPUT TRIM (GAIN SELECTOR)

3-way switch controls input level of both mono (Left) or stereo inputs. Select for nominal 0 dBm, -10 dBm, or -20 dBm (MIC) inputs.

2. PAN/BAL

For stereo inputs, use as a Left/Right volume balance. For mono inputs, use as a pan to place signal between Left and Right.

3. FADER 1 ~ 4

Adjusts the volume of the associated channel.

4. PEAK (PEAK INDICATOR)

The LED indicates when input signal to that channel reaches peak level. Set the input gain select trim so the LED will light only occasionally at peak level.

5. EFFECT (EFF SND)

Adjusts the level sent to the outboard effect.

6. EFFECT RETURN

Adjusts the level returned from the outboard effect.

7. POWER INDICATOR

The LED lights to indicate that the power is switched on.

8. PHONES

Adjusts the volume at the headphone output.

9. AUX

Controls the input level from a second (cascaded) mixer or any other signal sources (CD player, cassette deck, instruments, etc.) connected to AUX in.

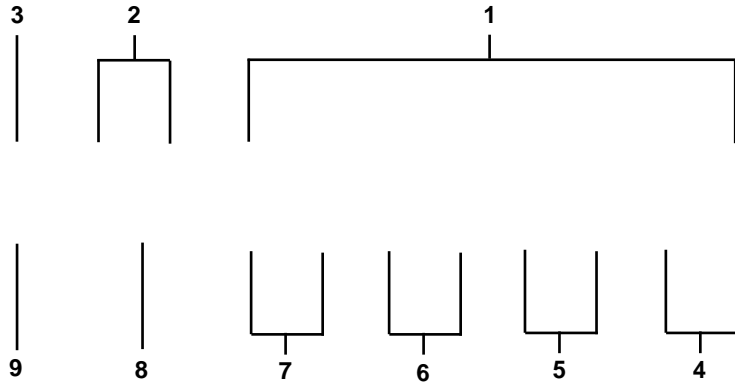
10. PEAK L/R

The LEDs indicate when the master signal reaches peak level. Set levels so these LEDs only light occasionally during use.

11. MASTER FADER

Controls the final, output level.

REAR PANEL CONNECTIONS



1. INPUT 1 ~ 4 (L/MONO, R)

1/4" Phone input jacks. Use L/mono Input for mono musical instruments and stereo inputs for decks, etc.

2. MASTER OUT

Final stereo mixer output. For stereo output, plug into both L/MONO and R jacks. For mono (stereo mixed into mono) output plug only into the L/MONO jack. Both outputs are unbalanced.

3. PHONES

1/4" TRS stereo jack for headphone monitoring.

4. AUX IN

Can be used for connecting a second MM4 for an increased total 8 stereo (16 input) channel capacity or for any source such as decks, CD players, instruments, etc.

5. EFFECT RETURN

Connect to the output of the outboard effect or use as an additional AUX in.

6. EFFECT SEND

Connect to the input of an outboard effect.

7. EFFECT SUB IN

Connect to the effect send of the second mixer when cascading two MM4s.

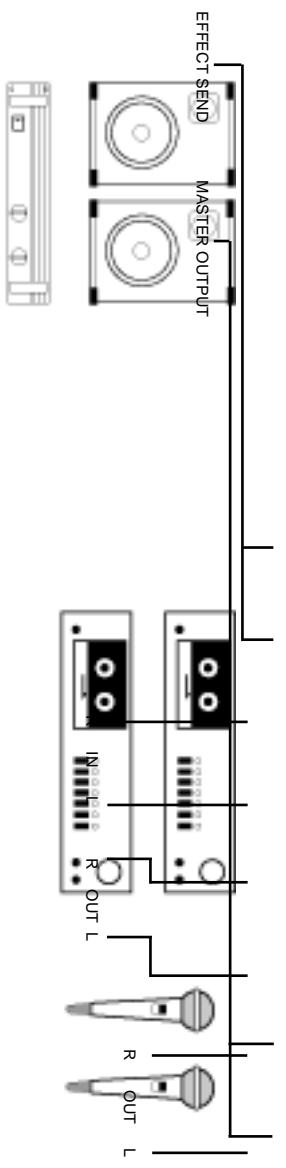
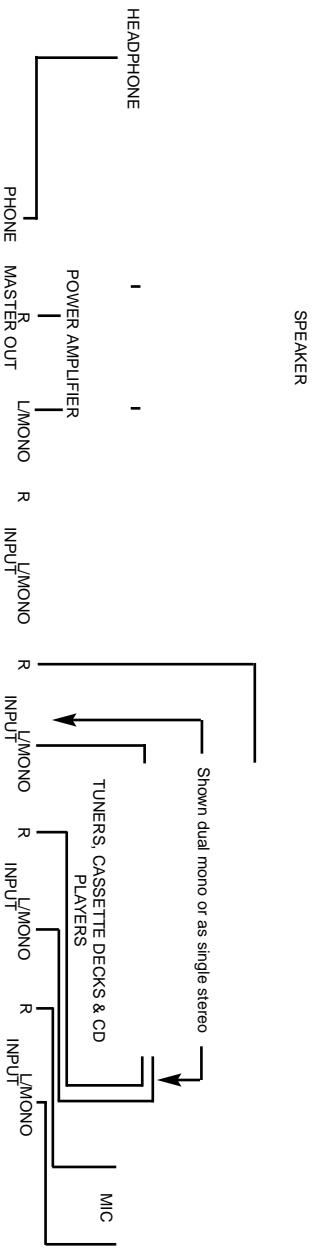
8. D.C. INPUT

Use only the AC adapter provided for proper operation and safety. (12 VDC, 500mA).

9. POWER SWITCH

Turns power on and off. Set the master fader to minimum before turning the MM4 on if its output is connected to other equipment such as an amplifier.

TYPICAL SET-UP



MM4

OUTBOARD EFFECTS

CD PLAYER

RECORDER

INPUT/OUTPUT SPECIFICATIONS

TEST CONDITIONS

1. PAN/BAL: Fader at center - Rest of volume settings all at max
2. PAN/BAL: Master fader at center - CH fader at max - Rest of volume at settings "8"
3. For stereo input
4. For a 100 Ω load
5. For stereo output

Input Terminal		Input ⁺¹ Sensitivity	Normal ⁺² Input	Maximum Sensitivity	Input ⁺³ Impedance	Suitable Source Impedance
CH Input	Level S/W	-6 dBm	0 dBm	+17 dBm	above 12 K Ω	below 1 K Ω
	Level S/W	-16 dBm	-10 dBm	+7 dBm	above 12 K Ω	below 1 K Ω
	Level S/W	-26 dBm	-20 dBm	-3 dBm	above 12 K Ω	below 1 K Ω
	Level S/W	-51 dBm	-45 dBm	-28 dBm	above 12 K Ω	below 1 K Ω
	Level S/W	-51 dBm	-45 dBm	-28 dBm	above 12 K Ω	below 1 K Ω
Effect Return		-16 dBm	-10 dBm	+20 dBm	above 12 K Ω	below 1 K Ω
AUX Input		-16 dBm	-10 dBm	+20 dBm	above 12 K Ω	below 1 K Ω
Effect Sub Input		-10 dBm	-10 dBm	+10 dBm	above 15 K Ω	below 1 K Ω

Output Terminal	Output Terminal	Output Terminal	Output Terminal	Output Terminal
Master Out	+4 dBm	+10.5 dBm	1 K Ω ⁺⁵	over 5 K Ω
Effect Send	-10 dBm	+10.5 dBm	1 K Ω ⁺⁵	over 5 K Ω
Headphones	-	50mW+50mW ⁺⁴	22 Ω	over 8 Ω

GENERAL SPECIFICATIONS

REAR PANEL TERMINAL	Input Jack (Phone)	8
	Master Out Jack (Phone)	2
	Effect • Post Fader (Phone)	Send 2, Return 2
	AUX Input Jack (Phone)	2
	Headphone Jack (Phone)	1
	Effect Sub in Jack (Phone)	2
	Power S/W	1
PANEL CONTROLS	CH Level S/W(0/-10/-20/MIC)	4
	Effect Volume	4
	PAN/BAL	4
	CH Fader	4
	Master Fader	1
	Effect Return Volume	1
	AUX In Volume	1
	Headphone Volume	1
LED INDICATORS	Peak Indicator (Input)	4
	Peak Indicator (Output)	2
	Power Indicator	1
FREQUENCY RESPONSE	In Case CH Level S/W is MIC	40Hz~50KHz + 0.5/-3dB
	Except CH Level S/W is MIC	40Hz~50KHz + 0.5/-3dB
INPUT NOISE LEVEL	CH • 1 Level S/W (MIC)	-124dBm
RESIDUAL NOISE WITH INPUTS SHORTED	Master Fader (MIN)	-98dBm Below
	Master Fader (MAX)/All CH • Fader (MIN)	-82dBm Below
	Master Fader (MAX)/All CH • Fader (MAX) CH Level S/W (-10)	-81dBm Below
	Master Fader (MAX)/1 CH • Fader (MAX) CH Level S/W (-10)	-80dBm Below
DISTORTION RATE		Less Than 0.05% (50Hz~10KHz, +4dBm Output)
CROSS TALK	L • R • CH	Less Than -70dBm(1KHz)
WEIGHT		2.1 lbs (0.95kg)
DIMENSIONS		8.6" x 8.6" x 2.4" (218 x 218 x 61 mm)
POWER REQUIREMENTS		3.7W, 12VDC/500mA adapter supplied

For improvement purposes, all specifications and design subject to change without notice.

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@nadywireless.com.

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

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

