Cat. No. 32-1222

# OWNER'S MANUAL

Please read before using this equipment.

# 2-Channel 170MHz Wireless FM Microphones System

## **FEATURES**

Your Optimus 2-Channel 170MHz Wireless FM Microphones System is designed for use with public address systems, musical instrument amplifiers, or other audio systems. The system's long range (150 feet), good signal-to-noise ratio (90 dB), and low distortion (1.0%) let you use it anywhere you would use a conventional microphone.

The hand mike's low-battery indicator and three-position switch help you avoid last-minute battery failures.

The receiver has both microphone and line-level outputs for easy connection to any amplifier, mixing board, or recorder, and you can use both outputs at the same time. And, the receiver's volume control lets you easily balance the receiver's output with other sound sources.

Be sure to read this manual completely before you use the system.

Note: You need one 9-volt battery (not supplied) to power the system

Warning: To prevent fire or shock hazard, do not expose this product to rain or moisture.



#### CAUTION

MAK OF ELECTRIC SHOOK.



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOOK, DO NOT REMOVE COVER OR BACK, NO USER-SERVICE-ABLE PARTS INSIDE. REFER SERVIC-ING TO QUALIFIED PERSONNEL.



This symbol is intended to alert you to the presence of uninsulated danger-ous voltage within the product's enclosure that might be of sufficient magnitude to constitute a risk of electric shock. Do not open the product's case.



This symbol is intended to inform you that important operating and maintenance instructions are included in the literature accompanying this product.

#### FCC NOTICE

This wireless audio link system compiles with Part 90 of FCC Rules. There are two frequencies available for the system. You must get a license for each frequency you plan to use before you use the system (one license can include both frequencies). Licensability depends on how you will use the system.

Look in your local phone book for the nearest FCC office and contact them to get the necessary application.

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2



# USING THE SYSTEM

### CONNECTING THE RECEIVER TO AN AMPLIFIER, MIXER, OR TAPE RECORDER

Connect the receiver to an amplifier, mixer, or tape recorder using either its LINE or AUDIO output.

To connect using the LINE jack, connect a shielded audio cable's phono plug to the receiver's LINE jack. Connect the other end to a line-level input on your amplifier, mixer, or tape recorder.

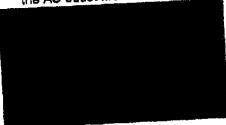
To connect using the AUDIO jack, connect a shielded audio cable's 1/4-inch mono phone plug to the receiver's AUDIO jack. Connect the other end to a microphone-level input on your amplifier, mixer, or tape recorder.

## POWERING THE RECEIVER

The receiver operates from the supplied 12-volt AC power adapter.

#### Cautions:

- Use only the supplied adapter, if you lose or damage this adapter, order a replacement from your local RadioShack store. Using other adapters could damage the receiver.
- Always plug the adapter into the receiver's DC 12V jack first, and always unplug the adapter from the AC outlet first.



- Be sure the receiver's POWER button is out (off) before you connect the adapter.
- Plug the adapter's small plug into the receiver's DC 12V Jack.
- Plug the other end of the adapter into a standard AC outlet.

## MAINTENANCE

Your Optimus 2-Channel 170MHz Wireless FM Microphone System is an example of superior design and craftsmanship. The following suggestions will help you care for the system so you can enjoy it for years.



Keep the system dry. If it gets wet, wipe it dry immediately. Liquid can contain minerals that corrode electronic circuits.



Use and store the system only in normal temperature environments. Temperature extremes can shorten the life of electronic devices and distort or melt plastic parts.



Handle the system gently and carefully. Dropping it can damage circuit boards and cases and can cause the system work improperly.



Keep the system away from dust and dirt, which can cause premature wear of parts.



Use only fresh batteries of the required size and type. Old batteries can leak chemicals that damage your transmitter's electronic parts.



Wipe the system with a damp cloth occasionally to keep it looking new. Do not use harsh chemicals, cleaning solvents, or strong detergents to clean your system.

Modifying or tampering with the system's internal components can cause a maifunction and could invalidate your system's warranty and void your FCC authorization to operate it. If your system is not performing as it should, take it to your local RadioShack store for assistance.

# SPECIFICATIONS

# TRANSMITTER

Frequency Response	5 mV ±5 dB @ ±3 kHz FM 80 mV ±5 dB @ ±3 kHz FM 100 -8,000 Hz 50 mW (Max) 38 mA (Average) 8 Hour (Average)		
Operating Frequencies:	Groups	Mike 1	Miks 2
<u> </u>		169.445 MHz	171.050 MHz
	2	170.305 MHz	171.845 MHz
	3	170.245 MHz	171.905 MHz

#### RECEIVER

Sensitivity	2 µV (with S/N @ 20 dB) 90 dB, A Weighted
Output Power:  LINE AUDIO  Total Harmonic Distortion  Power Requirements  Operating Frequencies:	
Specifications are typical; individual units might change and improvement without notice.	t vary. Specifications are subject to

#### RadioShack Limited Warranty

This product is warranted against defects for 1 year from date of purchase from RadioShack company-owned stores and authorized RadioShack franchisses and dealers. Within this period, we will repair it without charge for parts and labor. Simply bring your RedioShack sales allp as proof of purchase date to any RadioShack store. Warranty does not cover transportation costs. Nor does it cover a product subjected to misuse or accidental damage.

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