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› IFREQTECH MH-48A6J Handheld Microphone Speaker User Manual for YAESU FT-Series Radios

IFREQTECH MH-48A6J

IFREQTECH MH-48A6J Handheld Microphone Speaker User Manual

Model: MH-48A6J

1. INTRODUCTION

This manual provides detailed instructions for the IFREQTECH MH-48A6J Handheld Microphone Speaker. Designed for use with compatible YAESU mobile radios, this microphone offers enhanced communication capabilities including DTMF tone entry and user-programmable 'soft' keys. Please read this manual thoroughly to ensure proper installation and operation of your device.

2. PACKAGE CONTENTS

Verify that all items are present in your package:

- MH-48A6J DTMF Speaker Microphone (1 unit)
- HLN9073B MIC HANGUP CLIP (1 unit)
- Mounting Screws for Mic Hangup Clip (2 units)



Figure 2.1: Package contents including the MH-48A6J microphone, hangup clip, and mounting screws.

3. COMPATIBILITY

The IFREQTECH MH-48A6J Handheld Microphone Speaker is compatible with the following YAESU Mobile Radios:

- FT-7800R, FT-7800E, FT-7800
- FT-7900R
- FT-7100, FT-7100M
- FT-8800R, FT-8800E, FT-8800
- FT-8900R, FT-8900E, FT-8900
- FT-1500, FT-1500M
- FT-1802, FT-1802M, FT-1807, FT-1807M
- FT-1900R, FT-1900E, FT-1900
- FT-2600M, FT-2600
- FT-2800, FT-2800M
- FT-3000
- FT-2900, FT-2900R
- FT-8500, FT-8500M

4. PRODUCT FEATURES AND OVERVIEW

The MH-48A6J microphone is designed for comfortable and efficient radio operation. Key features include:

- **DTMF Keypad:** Allows direct frequency entry and memory channel recall.
- **PTT Switch:** Integrated Push-To-Talk button for transmission.
- **Programmable Keys (P1, P2, P3, P4):** Four user-programmable 'soft' keys for quick access to frequently used menu items or front panel functions.
- **UP/DWN Buttons:** For channel or frequency adjustment.
- **LOCK Switch:** To prevent accidental key presses.
- **LAMP Switch:** To control keypad backlighting.
- **Durable Construction:** Housing made of high-quality engineering plastic.
- **Omni-Directional Microphone:** Ensures clear audio capture.



MH-48A6J MICROPHONE SWITCHES

Figure 4.1: Labeled diagram of the MH-48A6J microphone switches and controls.



Figure 4.2: Front view of the MH-48A6J Handheld Microphone Speaker.

5. SETUP AND INSTALLATION

5.1 Connecting the Microphone

1. Locate the microphone port on your compatible YAESU mobile radio.
2. Align the RJ-45 connector of the MH-48A6J microphone with the radio's microphone port.
3. Gently push the connector into the port until it clicks securely into place. Do not force the connection.

5.2 Installing the Mic Hangup Clip

The included HLN9073B mic hangup clip allows for convenient storage of your microphone when not in use.

1. Choose a suitable location in your vehicle or operating area for the clip. Ensure it is within easy reach and

does not obstruct controls or visibility.

2. Using the two provided screws, securely attach the hangup clip to the chosen surface.
3. Ensure the clip is firmly mounted before hanging the microphone.



Figure 5.1: Detail of the microphone's rear and the hangup clip for installation.

6. OPERATING INSTRUCTIONS

6.1 Basic Operation

- **Power On/Off:** The microphone draws power from the radio. Ensure your radio is powered on.
- **Volume Control:** Adjust the audio output volume using your radio's volume knob. The microphone's built-in speaker will output received audio.
- **Push-To-Talk (PTT):** Press and hold the PTT switch on the side of the microphone to transmit. Release to receive.
- **UP/DWN Buttons:** Use these buttons to change frequencies or memory channels, depending on your radio's current mode.

6.2 DTMF Keypad Functions

The DTMF keypad allows for advanced functions:

- **Direct Frequency Entry:** In VFO mode, use the numeric keypad to directly enter frequencies. Refer to your radio's manual for specific steps.
- **Memory Channel Recall:** Use the keypad to recall specific memory channels.
- **DTMF Tones for Autopatch:** During transmission (while holding PTT), press the desired numeric keys to send DTMF tones for autopatch or other remote control functions.

6.3 Programmable Keys (P1, P2, P3, P4)

The four programmable 'soft' keys (P1, P2, P3, P4) can be customized to access frequently used radio functions or menu items. Refer to your specific YAESU radio's instruction manual for details on how to program these keys.

6.4 LOCK and LAMP Switches

- **LOCK Switch:** Slide this switch to the 'LOCK' position to disable the keypad and prevent accidental key presses. This is useful during mobile operation or when the microphone is stored.
- **LAMP Switch:** Slide this switch to activate or deactivate the keypad backlighting for improved visibility in low-light conditions.

7. MAINTENANCE

- **Cleaning:** Wipe the microphone surface with a soft, dry cloth. For stubborn dirt, a slightly damp cloth can be used, followed by immediate drying. Do not use harsh chemicals or abrasive cleaners.
- **Storage:** When not in use, store the microphone in a clean, dry environment, away from direct sunlight and extreme temperatures. Use the hangup clip for organized storage.
- **Cable Care:** Avoid sharp bends or excessive pulling on the coiled cable to prevent internal wire damage.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Microphone not functioning (no audio, no keypad response)	Not properly connected to radio. Radio is off. Microphone cable damage. LOCK switch is engaged.	Ensure the RJ-45 connector is fully inserted and latched. Verify the radio is powered on. Inspect the cable for visible damage. Disengage the LOCK switch.
Poor audio quality (transmit or receive)	Microphone positioned incorrectly. Radio audio settings. Environmental noise.	Speak directly into the microphone grill. Check your radio's microphone gain and audio settings. Reduce background noise if possible.
Keypad backlight not working	LAMP switch is off.	Slide the LAMP switch to the 'ON' position.

9. SPECIFICATIONS

Model Name	MH-48A6J
Brand	IFREQTECH
Microphone Form Factor	Handheld
Impedance	600 Ohms
Polar Pattern	Omnidirectional
Material	Plastic
Color	Black
Connectivity Technology	Auxiliary
Connector Type	3.5 mm Jack
Item Weight	0.18 Kilograms (6.4 ounces)
Package Dimensions	5.47 x 3.07 x 2.52 inches
UPC	652026227963

Note: The product image displays an RJ-45 connector, while specifications list a 3.5 mm Jack. Please confirm the correct connector type for your radio model.

10. SUPPORT

For any questions, issues, or technical assistance regarding your IFREQTECH MH-48A6J Handheld Microphone Speaker, please contact IFREQTECH customer support. We are committed to providing assistance and ensuring your satisfaction.

Please refer to the seller's contact information or the product listing page for details on how to reach customer support.