

[Manuals.plus](#) /

› [Motorola](#) /

› Motorola PMMN4148A Remote Speaker Microphone User Manual

## Motorola PMMN4148A

# Motorola PMMN4148A Remote Speaker Microphone User Manual

**Model:** PMMN4148A | **Brand:** Motorola

## INTRODUCTION

The Motorola PMMN4148A (also known as PMMN4148 or RM110) is a compact and durable remote speaker microphone designed for use with compatible two-way radios. It features a 3.5mm audio jack for connecting earpieces and offers a good level of protection against dust and water, with an IP55 rating specifically for the RSM head. This wired remote speaker microphone is equipped with a sturdy, low-profile swivel clip for easy attachment and delivers loud and clear audio through its 101 phon speaker, ensuring effective communication.

## SETUP

To set up your Motorola PMMN4148A Remote Speaker Microphone, follow these steps:

- 1. Unpack the Device:** Carefully remove the speaker microphone from its packaging. The package includes the speaker mic unit.
- 2. Connect to Radio:** Locate the audio accessory port on your compatible two-way radio. Insert the connector cable from the PMMN4148A into this port until it is securely seated.
- 3. Attach to Clothing:** Utilize the integrated sturdy low-profile swivel clip on the back of the speaker microphone to attach it securely to your clothing, such as a collar or lapel. Position it for optimal microphone pickup and speaker audibility.
- 4. Optional Earpiece Connection:** If desired, connect a compatible 3.5mm audio earpiece into the 3.5mm audio jack located on the side of the speaker microphone. This allows for private listening.



Figure 1: Side view of the PMMN4148A, highlighting the swivel clip for attachment.

## OPERATING INSTRUCTIONS

---

Once connected, the Motorola PMMN4148A enhances your radio communication experience:

- **Receiving Audio:** Incoming transmissions from your radio will be routed through the speaker on the front of the remote speaker microphone. The 101 phon speaker ensures loud and clear audio reception.
- **Transmitting Audio:** To transmit, press and hold the Push-to-Talk (PTT) button located on the side of the microphone. Speak clearly into the microphone grille on the front of the unit. Release the PTT button when you have finished speaking.
- **Using Earpiece (Optional):** If an earpiece is connected to the 3.5mm jack, audio will be directed to the earpiece for private listening, bypassing the main speaker.



Figure 2: Front view of the PMMN4148A, showing the speaker and microphone elements.

## MAINTENANCE

---

Proper care ensures the longevity and performance of your remote speaker microphone:

- **Cleaning:** Wipe the exterior of the microphone with a soft, damp cloth. Do not use harsh chemicals, solvents, or abrasive cleaners, as these can damage the unit.
- **Water and Dust Protection:** The RSM head of the PMMN4148A is IP55 rated, meaning it is protected against dust ingress and low-pressure water jets from any direction. While it offers protection, avoid submerging the unit in water or exposing it to extreme moisture for prolonged periods. Ensure the 3.5mm jack cover (if present) is properly sealed when not in use.
- **Storage:** Store the microphone in a cool, dry place away from direct sunlight and extreme temperatures when not in use. Avoid tangling the cable.



Figure 3: Back view of the PMMN4148A, displaying the RM110 model designation and IP55 rating.

## TROUBLESHOOTING

---

If you encounter issues with your PMMN4148A, try the following solutions:

- **No Audio from Speaker:**
  - Ensure the microphone's cable is fully and securely plugged into the radio's accessory port.
  - Check if an earpiece is connected to the 3.5mm jack; if so, audio will be routed to the earpiece. Disconnect the earpiece to use the main speaker.
  - Verify the radio's volume is turned up.
- **Microphone Not Transmitting:**
  - Confirm the cable is securely connected to the radio.
  - Ensure the PTT button is being pressed firmly and held down while speaking.
  - Check if the radio itself is functioning correctly and able to transmit.

- **Distorted or Unclear Audio:**
  - Ensure the microphone grille is not obstructed by clothing or debris.
  - Check the cable for any visible damage or kinks.
  - Verify the radio's settings and signal strength.



Figure 4: Side view of the PMMN4148A, illustrating the 3.5mm audio jack for earpiece connection.

## SPECIFICATIONS

Key technical specifications for the Motorola PMMN4148A Remote Speaker Microphone:

| Feature                     | Detail           |
|-----------------------------|------------------|
| Model Name                  | PMMN4148A        |
| Brand                       | Motorola         |
| Item Dimensions (L x W x H) | 3 x 4 x 1 inches |
| Item Weight                 | 5.9 ounces       |
| Connectivity Technology     | Auxiliary        |
| Connector Type              | 3.5 mm Jack      |
| Special Feature             | 3.5mm jack       |
| Noise Level                 | 101 dB (Speaker) |
| Signal-to-Noise Ratio       | 78 dB            |
| Polar Pattern               | Unidirectional   |

|                                    |             |
|------------------------------------|-------------|
| Microphone Form Factor             | Mini        |
| Ingress Protection (RSM head only) | IP55        |
| Included Components                | Speaker Mic |

## WARRANTY INFORMATION

Motorola products typically come with a limited warranty. For specific warranty terms and conditions applicable to your PMMN4148A Remote Speaker Microphone, please refer to the warranty card included with your purchase or visit the official Motorola Solutions website. Retain your proof of purchase for warranty claims.

## SUPPORT

For further assistance, technical support, or to inquire about replacement parts, please contact Motorola Solutions customer service or visit their official support website. You can often find FAQs, additional documentation, and contact information for your region on their website.

**Motorola Solutions Official Website:** [www.motorolasolutions.com](http://www.motorolasolutions.com)

© 2024 Motorola Solutions. All rights reserved.

### ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

**Name**

Anonymous

**Email**

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

**Question**

Example: How do I reset this device or fix this error?

**Details**

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

