



# Motorola Professional and Commercial Tier Remote Speaker Microphones

## Product Comparison Overview and Matrix



PMMN4013

Motorola's Remote Speaker Microphones (RSMs) are a vital two-way radio accessory solution for users who need to talk and listen without removing the radio from their belt or carry case. Motorola offers a wide range of RSMs that are ideal for manufacturing, public service, transportation, hospitality and education customers.



PMMN4027

Police and other emergency services professionals will appreciate the enhanced performance and exceptional reliability a Public Safety Microphone (PSM) provides. It's designed to help increase coverage so users can communicate clearly and accurately.

Motorola RSMs and PSMs provide enhanced and convenient communication with advanced features such as the following:

- IMPRES™ Smart Audio System
  - o Motorola's state-of-the-art IMPRES technology allows communication between the radio and the audio accessory. The result is **optimal audio performance** and increased customization assuring the highest quality communication.
    - **Optimal Audio Performance:** When an IMPRES RSM or PSM is attached, accessory identification is sent to the radio enabling the radio to optimize its output for the RSM/PSM. This results in more consistent output from the RSM/PSM.
    - **Enhanced Audio Gain Capability:** IMPRES RSMs and PSMs have significantly advanced audio gain capability. When a user is either speaking quietly or is speaking in a normal volume but not directly into the microphone, IMPRES audio can detect the condition and will automatically increase the gain such that the person on the receiving end hears a clear transmission.

The **windporting** feature dramatically lessens background noise from high winds and other severe weather conditions. Audio can pass through the speaker grill even when the microphone port is blocked by water ensuring a user's confidence of clear communication.



PMMN4025



PMMN4043

- With **omni-directional acoustics**, the RSM picks up sound equally well from all directions.
- When a user speaks directly into the microphone, the **noise-canceling acoustics** utilize a directional microphone that is designed to eliminate the ambient noise.
- Several RSMs and PSMs meet **IP57 submersibility** ratings providing reliable communications even in wet conditions.
- All RSMs and PSMs are certified for use with applicable **intrinsically safe (IS)** radio units.
- The **volume control** feature enables the user to adjust the radio volume without having to touch the radio.
- Users can also receive discreet audio communication by utilizing the **audio jack** feature with an additional earpiece accessory.
- When injuries or life-threatening emergencies strike, **emergency-button** equipped RSMs can be used to signal that the operator needs help.
- RSMs are available in both **small and large housings**. The small housing is compact and easy to wear. The large housing is beneficial for users needing to access the radio while wearing gloves or in rugged conditions.

Motorola offers a broad portfolio of remote speaker microphones and public safety microphones for high quality communication and are designed with advanced features to enable you to communicate in the most demanding environments. The chart on the next page will help you select the right microphone to fit your needs.



Motorola Remote Speaker Microphones (RSM)

Product Comparison	Part Number	Radio Compatibility	Emergency Button	Programmable Button	Volume Control	Audio Jack	IP Rating	ISM	Acoustic	Housing
Remote Speaker Microphone	PMMN4013A	Commercial <sup>2</sup>	No	No	No	Yes	IP54	Yes	Windporting Omni-Directional	Small
Remote Speaker Microphone	PMMN4029A	Commercial <sup>2</sup>	No	No	No	No	IP57	Yes	Windporting Omni-Directional	Small
Remote Speaker Microphone	PMMN4021A	Professional <sup>1</sup>	No	No	No	Yes	IP54	Yes	Windporting Omni-Directional	Small
Remote Speaker Microphone	PMMN4027A	Professional <sup>1</sup>	No	No	No	No	IP57	Yes	Windporting Omni-Directional	Small
Remote Speaker Microphone	PMMN4039A	Professional <sup>1</sup>	No	No	No	Yes	IP54	Yes	Noise-Canceling	Large
Remote Speaker Microphone	PMMN4044A	Professional <sup>1</sup>	No	No	High/Low	No	IP57	Yes	Windporting Omni-Directional	Large
Remote Speaker Microphone	PMMN4022A	EX500™, EX600™, EX600•LS™	No	No	No	Yes	IP54	Yes	Windporting Omni-Directional	Small
Remote Speaker Microphone	PMMN4023A	EX500™, EX600™, EX600•LS™	No	No	No	No	IP57	Yes	Windporting Omni-Directional	Small
Remote Speaker Microphone	PMMN4040A	XPR™ 6500/6550 XPR™ 6300/6350	No	No	No	No	IP57	Yes	Windporting Omni-Directional	Small
Remote Speaker Microphone	PMMN4024A	XPR™ 6500/6550 XPR™ 6300/6350	No	No	No	Yes	IP54	Yes	Windporting Omni-Directional	Small
IMPRES Remote Speaker Microphone	PMMN4025A	XPR™ 6500/6550 XPR™ 6300/6350	Yes	No	No	Yes	IP54	Yes	Windporting Omni-Directional	Small
IMPRES Remote Speaker Microphone	PMMN4046A	XPR™ 6500/6550 XPR™ 6300/6350	Yes	Yes	High/Low	No	IP57	Yes	Windporting Omni-Directional	Large
IMPRES Remote Speaker Microphone	PMMN4050A	XPR™ 6500/6550 XPR™ 6300/6350	No	No	No	Yes	IP54	Yes	Noise-Canceling	Large

Motorola Public Safety Microphones (PSM)

UHF PSM	RMN5075A RMN5035A	HT750™, HT1250™ HT1250•LS™ HT1550•XLS™	No	No	High/Low	Yes	IP54	Yes	Omni-Directional	Large
VHF PSM	RMN5076A RMN5036A	HT750™, HT1250™ HT1250•LS™ HT1550•XLS™	No	No	High/Low	Yes	IP54	Yes	Omni-Directional	Large
IMPRES™ PSM	PMMN4041A PMMN4042A PMMN4043A	XPR™ 6500/6550 XPR™ 6300/6350	Yes	No	Ramp up/down	Yes	IP54	Yes	Windporting Omni-Directional	Large
IMPRES™ PSM	PMMN4047A PMMN4048A PMMN4049A	XPR™ 6500/6550 XPR™ 6300/6350	Yes	No	Ramp up/down	No	IP57	Yes	Windporting Omni-Directional	Large

IP54 4 Stands for protection against water sprayed from all directions  
 IP57 7 Stands for submersibility tested at 1 meter for 30 minutes

1 = HT750, HT1250, HT1250•LS+, HT1550•XLS, MTX850™, MTX1850•LS™, MTX8250™, MTX8250•LS™, MTX950™, MTX9250™, PR860  
 2 = CP150™, CP200™, PR400™



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