

# Motorola Remote Speaker Microphones Enhance Communication

Introducing Remote Speaker Microphones that offer Windporting, Noise-Canceling Acoustics and/or IP57 Submersibility features



### PMMN4038

- Windporting
- IP57 Submersible

# PMMN4045

- Noise-Canceling AcousticsIP54
- 3.5mm unthreaded audio jack
- (requires new earpieces)Will replace NMN6191 Remote Speaker Microphone

#### PMMN4051

- Windporting
- IP55
- 3.5mm unthreaded audio jack (requires new earpieces)
- Will replace NMN6193 Remote Speaker Microphone

#### RMN5038

- Omni-directional Acoustics
- IP54
- 3.5mm unthreaded audio jack (requires new earpieces)
- Emergency Button
- Volume Buttons

These RSMs work with the following radios:

- XTS® 1500/2500
- XTS® 5000
- PR1500
- MT1500™

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. These RSMs boast new features that give public safety professionals the confidence of clear, understandable communication even when Mother Nature is uncooperative.

Four RSMs are available with a variety of features giving police, firefighters and other public safety officials the flexibility to choose the solution ideal for their needs\*:

- The windporting feature dramatically lessens noise caused by high winds and other severe weather conditions. Audio can pass through the speaker grill even when the microphone port is blocked by water ensuring user's confidence of clear communication.
- When a user speaks directly into the microphone, the noise-canceling acoustics utilize a directional microphone that is designed to eliminate ambient noise – ideal for indoor communication

- With omni-directional acoustics, the RSM picks up sound equally well from all directions.
- IP57 submersibility ratings provide reliable communications even in wet conditions.
- When injuries or emergencies strike, emergencybutton equipped RSMs can be used to signal that the operator needs help – a critical feature for public safety professionals\*\*
- Volume buttons allow the user to adjust the audio volume without having to access the radio.
- An audio jack located at the head of the microphone allows users to receive discreet audio communication, with an additional earpiece accessory. The new location of the audio jack eliminates unnecessary wires.

<sup>\*</sup>Not all features available on all Remote Speaker Microphones

<sup>\*\*</sup>Mandown pre-alert and post-alert must be programmed. In some radios, emergency activation from the RSM is delayed until programmed pre-alert and post-alert delays elapse. Please see radio manual for additional details.

# PRODUCT SPECIFICATIONS

	PMMN4038	PMMN4045	PMMN4051	RMN5038
MICROPHONE ACOUSTICS	3			
Microphone Type:	Omni-directional	Directional	Omni-directional	Omni-directional
Sensitivity:	-44dBV typical	-47dBV typical	-44dBV typical	-44dBV typical
SPEAKER ACOUSTICS				
Diameter:	45mm	45mm	45mm	45mm
Output power:	0.5W at rated audio	0.5W at rated audio	0.5W at rated audio	0.5W at rated audio
Output Level:	90dB SPL typical	90dB SPL typical	90dB SPL typical	86dB minimum
Maximum Output Level:	≤ 120dB SPL at max volume	≤ 120dB SPL at max volume	≤ 120dB SPL at max volume	N/A
Frequency Response:	300Hz – 3200Hz	300Hz – 3200Hz	300Hz – 3200Hz	300Hz – 3500Hz
Distortion (THD):	<15% (RX)	<15% (RX)	<15% (RX)	<15% (RX)
AUDIO JACK				
Audio Jack Type:	None	3.5mm unthreaded jack	3.5mm unthreaded jack	3.5mm unthreaded jack
Compatible Earpieces:	N/A	AARLN4885, WADN4190, PMLN4620, RLN4941	AARLN4885, WADN4190, PMLN4620, RLN4941	AARLN4885, WADN4190, PMLN4620, RLN4941
Maximum Output Level:	N/A	≤ 118dB	≤ 118dB	< 118dB
BODY				
Dimensions (W x L x D):	60mm x 78mm x 28mm (without clip)	60mm x 78mm x 28mm (without clip)	60mm x 78mm x 28mm (without clip)	60mm x 85mm x 42mm (with clip)
Weight:	220 grams	220 grams	220 grams	229 grams
POWER				
Power Source:	Radio battery	Radio battery	Radio battery	Radio battery
CABLE				
Flex Life:	50,000 cycles	50,000 cycles	50,000 cycles	50,000 cycles
Pull Strength:	40lbs, minimum tensile, in-line	40lbs, minimum tensile, in-line	40lbs, minimum tensile, in-line	40lbs, minimum tensile, in-line
CONTROLS				
Emergency:	None	None	None	Orange Button
Volume:	None	None	None	Up/Down buttons on face of RSM
Side Button:	None	None	None	None
ENVIRONMENTAL SPECIFICATIONS				
Operating Temp:	-30 C to +60 C	-30 C to +60 C	-30 C to +60 C	-30 C to +60 C
Storage Temp:		-55 C to +85 C	-55 C to +85 C	-55 C to +85 C
Humidity:	90-95% relative humidity at +50 C for 8 hours	90-95% relative humidity at +50 C for 8 hours	90-95% relative humidity at +50 C for 8 hours	90-95% relative humidity at +50 C for 8 hours
Rain:	MIL810F Method 506.4	MIL810F Method 506.4	MIL810F Method 506.4	MIL810F Method 506.4
Salt/Fog:	MIL810F Method 509.4, Procedure 1	MIL810F Method 509.4, Procedure 1	MIL810F Method 509.4, Procedure 1	MIL810F Method 509.4, Procedure 1
Dust:	MIL810F Method 510.4, Procedure 1	MIL810F Method 510.4, Procedure 1	MIL810F Method 510.4, Procedure 1	MIL810F Method 510.4, Procedure 1
Vibration:	MIL810F Method 514.5, Procedure 1, Category 24	MIL810F Method 514.5, Procedure 1, Category 24	MIL810F Method 514.5, Procedure 1, Category 24	MIL810F Method 514.5, Procedure 1, Category 1
Mechanical Shock:	MIL810F, Method 516.5, Procedure 1	MIL810F, Method 516.5, Procedure 1	MIL810F, Method 516.5, Procedure 1	MIL810F, Method 516.5, Procedure 1
ESD:	IEC/EN61000-4-2	IEC/EN61000-4-2	IEC/EN61000-4-2	IEC/EN61000-4-2
IP Rating*:	IP57	IP54	IP55	IP54

\*IP54 - 4 stands for protection against water sprayed from all directions

IP55 – 5 stands for protection against driving rain
IP57 – 7 stands for submersibility tested at 1 meter for 30 minutes

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