

# NEW Motorola Remote Speaker Microphones Enhance Communication



Bringing more reliable performance to the retail, security, construction, education and hospitality industries as well as to public safety professionals.



## Hear The Difference Windporting Makes!

Discover for yourself how Motorola Windporting technology produces greater clarity. We've recorded the same transmission under simulated windy conditions two ways:

The first communication you hear is with a conventional remote speaker microphone.

The second communication features an advanced remote speaker microphone with Windporting technology.

### Open...

To hear the clarity of Windporting.

# Put Advanced Windporting Technology in the Palm of Your Hand

Finally, microphones as tough as you are.

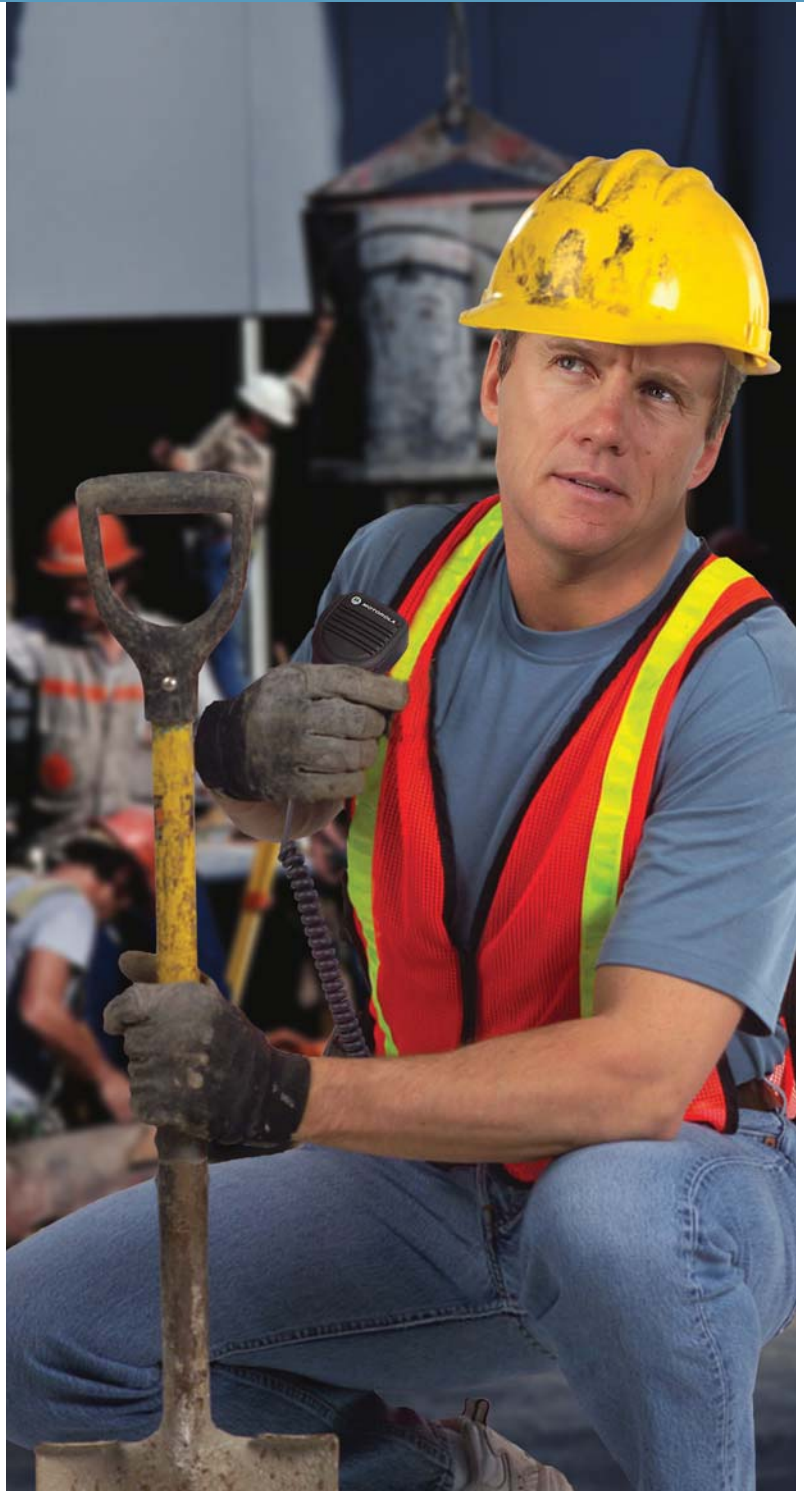
## Decreased wind noise even in gusty, stormy conditions.

These new Remote Speaker Microphones for Motorola two-way radios boast a revolutionary Windporting feature that 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. Now public safety professionals can be more confident than ever of clear, understandable communication when Mother Nature is uncooperative



PMMN4013A

*The clarity of these microphones can help public safety professionals communicate more clearly and the higher IP57 Rating allows construction workers to get through even on dusty and wet construction sites.*



## Choose the convenience of an ear jack unit with compatible earpieces available... or the protection of a higher IP57 rating.

### Two Models Available

These advanced Windporting remote speaker microphones are offered in two compact designs to match user needs:

#### Ear Jack Units for Discreet Communication

The jack is located on the microphone head to eliminate unnecessary long wires. All ear jack microphones accept Motorola audio earpieces RLN4941A, AARLN4885B and WADN4190B.



#### Higher IP57 Rating

##### Microphones for Safety

IP57 is a higher rating than the standard IP54 that helps provide first responders with high reliability in emergency situations. The number "5" stands for the dust intrusion rating, or the capacity to withstand the effects of fine, abrasive dust particles. The "7" means a higher water intrusion rating. The head of the microphone has been tested for 30 minutes of submersion at 1 meter, but the connector is not similarly rated.



#### Educators, Retail and Hospitality Professionals

These compact microphones have a Windporting feature that can help reduce background noise at school rallies, conventions, outdoor events and on the retail floor.

#### PMMN4013A – Remote Speaker Microphone with Ear Jack

#### PMMN4029A – Remote Speaker Microphone with IP57 Rating

#### Construction, Public Safety and Utility Workers

These sturdy microphones are the must have communication audio accessories for those working at the job site or in the field – where the Windporting feature makes the most sense.

#### PMMN4021A – Remote Speaker Microphone with Ear Jack

#### PMMN4022A – Remote Speaker Microphone with Ear Jack

#### PMMN4023A – Remote Speaker Microphone with IP57 Rating

#### PMMN4027A – Remote Speaker Microphone with IP57 Rating



### Microphone Compatibility Guide

|             | PMMN4013A | PMMN4029A |
|-------------|-----------|-----------|
| BPR™ 40     | •         | •         |
| CP125™      | •         | •         |
| CP150™      | •         | •         |
| CP200™      | •         | •         |
| CT150™      | •         | •         |
| CT250™      | •         | •         |
| CT450™      | •         | •         |
| CT450-LS™   | •         | •         |
| PR400™      | •         | •         |
|             | PMMN4021A | PMMN4027A |
| HT750™      | •         | •         |
| HT1250™     | •         | •         |
| HT1250-LS™  | •         | •         |
| HT1550-XLS™ | •         | •         |
| MTX850™     | •         | •         |
| MTX1850-LS™ | •         | •         |
| MTX8250™    | •         | •         |
| MTX8250-LS™ | •         | •         |
| MTX950™     | •         | •         |
| MTX9250™    | •         | •         |
| PR860       | •         | •         |
|             | PMMN4022A | PMMN4023A |
| EX500™      | •         | •         |
| EX600™      | •         | •         |
| EX600-LS™   | •         | •         |

# Remote Speaker Microphones With Ear Jack and Higher IP57 Rating

## Specifications

### PMMN4013/PMMN4021/PMMN4022

### PMMN4023/PMMN4027/PMMN4029

#### ACOUSTICS

|                             |  |  |
|-----------------------------|--|--|
| <b>Microphone Type</b>      | Omni directional   | Omni directional   |
| Sensitivity:                | -44dBV +/-2dBV, at 1kHz, 94dB SPL source, at mouth reference point | -44dBV +/-2dBV, at 1kHz, 94dB SPL source, at mouth reference point |
| Distortion (THD):           | < 5% (TX) at 1kHz at rated audio                                   | < 5% (TX) at 1kHz at rated audio                                   |
| <b>Speaker Diameter</b>     | 45mm   | 45mm   |
| Output Power:               | 0.5W at rated audio  | 0.5W at rated audio  |
| Output Level:               | 90dB SPL typical, 200Hz - 3200Hz, at rated audio, at 30cm from RSM | 90dB SPL typical, 200Hz - 3200Hz, at rated audio, at 30cm from RSM |
| Maximum Output Level:       | < 120dB SPL at maximum radio volume                                | < 120dB SPL at maximum radio volume                                |
| Frequency Response:         | 200Hz - 3200Hz   | 200Hz - 3200Hz   |
| Distortion (THD):           | < 15% (Rx) at 1kHz at rated audio                                  | < 15% (Rx) at 1kHz at rated audio                                  |
| <b>Earpiece Type</b>        | 3.5mm unthreaded jack, Receive                                     | None   |
| Maximum Output Level:       | < 118dB SPL at maximum radio volume                                | None   |
| Acoustic Feedback Distance: | 35 feet typical, outdoors  | 35 feet typical, outdoors  |

#### RSM BODY

|   |                          |                          |
|---|--------------------------|--------------------------|
| Dimensions: W x L x D (without Clothing Clip) | 55 x 60 x 27mm           | 55 x 60 x 27mm           |
| Weight:                                       | 146.2 Grams (maximum)    | 188 Grams (maximum)      |
| Case Material:                                | Lexan 141R Polycarbonate | Lexan 141R Polycarbonate |

#### POWER

|               |               |               |
|---------------|---------------|---------------|
| Power Source: | Radio Battery | Radio Battery |
|---------------|---------------|---------------|

#### CONTROLS

|                     |   |   |
|---------------------|---|---|
| Push-to-Talk (PTT): | Side paddle mechanism activated via tact switch | Side paddle mechanism activated via tact switch |
|---------------------|---|---|

#### CABLE

|                           |                                     |                                     |
|---------------------------|-------------------------------------|-------------------------------------|
| Flex Life:                | 50,000 Cycles (minimum)             | 50,000 Cycles (minimum)             |
| Pull Strength:            | 40 Lbs, Minimum Tensile, In-Line    | 40 Lbs, Minimum Tensile, In-Line    |
| Accessory Connector Case: | Flame Retardant TPE/Black Shore A80 | Flame Retardant Polycarbonate Black |

#### ENVIRONMENTAL

|                        |   |   |
|------------------------|---|---|
| Operating Temperature: | -30°C to +60°C  | -30°C to +60°C  |
| Storage Temperature:   | -55°C to +85°C  | -55°C to +85°C  |
| Thermal shock:         | -57°C to +80°C  | -57°C to +80°C  |
| Humidity:              | 90% - 95% Relative Humidity at +50°C for 8 hours  | 90% - 95% Relative Humidity at +50°C for 8 hours  |
| Rain:                  | MIL 810F Method 506.4   | MIL 810F Method 506.4   |
| Salt/Fog:              | MIL 810F Method 509.4 Procedure 1   | MIL 810F Method 509.4 Procedure 1   |
| Dust:                  | MIL 810F Method 510.4 Procedure 1   | MIL 810F Method 510.4 Procedure 1   |
| Vibration:             | MIL 810F Method 514.5 Procedure 1, Category 24  | MIL 810F Method 514.5 Procedure 1, Category 24  |
| Mechanical Shock:      | MIL 810F Method 516.5 Procedure 1   | MIL 810F Method 516.5 Procedure 1   |
| Impact (grill):        | 1 1/4" diameter steel ball drop. Initial drop height is 30cm, then increase drop height by 10cm for at least 8 times @ 100cm. | 1 1/4" diameter steel ball drop. Initial drop height is 30cm, then increase drop height by 10cm for at least 8 times @ 100cm. |
| ESD:                   | IEC/EN61000-4-2   | IEC/EN61000-4-2   |
| IP Rating:             | IP54  | IP57  |

Call us and order today...



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