MOTOROLA SOLUTIONS

WM500 Remote Speaker Microphone PMMN4127_ User Leaflet

MN006039A01-AG

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Complies with IMDA Standards DB01909 | R 007-AJ0033

Notice to Users (FCC and Industry Canada)

This device complies with part 15 of the FCC Rules and Industry Canada license-exempt RSS standard(s). Operation is subject to the following conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.
- Changes or modifications made to this device, not expressly approved by Motorola Solutions, could void the authority of the user to operate this equipment.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio or TV technician for help.

Avis aux utilisateurs (FCC et Industrie Canada)

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence et à la partie 15 des règlements de la FCC :

- Cet appareil ne doit pas causer d'interférence nuisible.
- Cet appareil doit accepter toute interférence reçue, y compris les interférences pouvant entraîner un fonctionnement indésirable.
- Toute modification effectuée à cet appareil sans l'autorisation explicite de Motorola Solutions peut annuler l'autorisation d'utiliser cet appareil.

Si cet appareil cause une interférence nuisible à la réception de la radio ou de la télévision, ce qui peut être déterminé en éteignant et en allumant l'appareil, vous êtes encouragé à remédier à la situation en prenant une ou plusieurs des mesures suivantes :

- Réorienter ou déplacer l'antenne réceptrice.
- Augmenter la distance entre l'équipement et le récepteur.
- Brancher l'appareil dans une autre prise sur un circuit différent de celui du récepteur.

Consulter un revendeur ou un technicien de radio ou de télévision chevronné pour obtenir de l'aide.

Supplier's Declaration of Conformity

Per FCC CFR 47 Part 2 Section 2.1077(a)

Responsible Party
Name: Motorola Solutions, Inc.
Address: 1303 East Algonquin Road, Schaumburg, IL 60196-1078, U.S.A.
Phone Number: 1-800-927-2744
Hereby declares that the product:
Model Name: **WM500**
conforms to the following regulations:
FCC Part 15, subpart B, section 15.107(a), 15.107(d), and section 15.109(a)

Déclaration de conformité du fourmisseur

Règlement CFR 47 partie 2 section 2.1077(a) de la FCC

Partie responsable
Nom: Motorola Solutions, Inc.
Adresse: 1303 East Algonquin Road, Schaumburg, IL 60196-1078, U.S.A.
Numéro de téléphone: 1-800-927-2744
Déclare par les présentes que le produit :
Nom de modèle: **WM500**
sont conformes aux réglementations suivantes:
Partie 15, sous-partie B, section 15.107(a), 15.107(d) et section 15.109(a) des règlements de la FCC

Class B Digital Device

As a personal computer peripheral, this device complies with Part 15 of the FCC Rules. This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

Notice: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

Appareil numérique de Classe B

En tant que périphérique d'ordinateur personnel, cet appareil est conforme aux stipulations de la partie 15 des règlements de la FCC. Cet appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. Son utilisation est assujettie aux deux conditions suivantes :

1. Cet appareil ne doit pas causer d'interférence nuisible.
2. Cet appareil doit accepter toute interférence reçue, y compris les interférences pouvant entraîner un fonctionnement indésirable.

AVIS: Cet équipement a fait l'objet de tests et a été déclaré conforme aux limites établies pour un appareil numérique de classe B, conformément à la section 15 des règlements de la FCC. Ces limites sont fixées afin d'offrir une protection suffisante contre des interférences nuisibles dans une installation résidentielle. Cet équipement génère, utilise et peut émettre de l'énergie de radiofréquence et, s'il n'est pas installé ou utilisé conformément aux instructions, il peut provoquer un brouillage nuisible aux communications radio. Cependant, il est impossible de garantir qu'il n'y aura aucune interférence dans une installation particulière.

RF Energy Exposure and Product Safety Guide for Portable Two-Way Radios

Before using this product, read the RF Energy Exposure and Product Safety Guide that ships with the radio which contains instructions for safe usage and RF energy awareness and control for compliance with applicable standards and regulation.

Acoustic Safety

Exposure to loud noises from any source for extended periods of time may temporarily or permanently affect your hearing. The louder the radio's volume, the less time is required before your hearing could be affected. Hearing damage from loud noise is sometimes undetectable at first and can have a cumulative effect. To protect your hearing:

- Use the lowest volume necessary to do your job.
- Turn up the volume only if you are in noisy surroundings.
- Turn down the volume before connecting headset or earpiece.
- Limit the amount of time you use headsets or earpieces at high volume.
- When using the radio without a headset or earpiece, do not place the radio's speaker directly against your ear.
- If you experience hearing discomfort, ringing in your ears, or speeches that are muffled, you should stop listening to your radio through your headset or earpiece, and have your hearing checked by your doctor.

Caution

Important Information

- Do not charge your accessory in temperature below 0 °C (32 °F) or above 45 °C (113 °F). Do not store your accessory in direct sunlight or where expected temperatures can exceed this range such as inside a parked car.
- Storing your fully charged accessory in high temperature conditions may permanently reduce the life of the internal battery.
- Battery life may temporarily shorten in low-temperature conditions.
- The Remote Speaker Microphone (RSM) should be stored between -10 °C (14 °F) and 30 °C (86 °F) to minimize battery permanent capacity loss.
- To prevent injury, do not disassemble, puncture, or crush the RSM because this action can cause the battery to short-circuit.
- Do not expose or throw the RSM into heat or fire.
- Do not dispose the RSM into household waste.
- Do not fill the audio jack and USB charging port with water. If water enters the audio jack and/or USB charging port, remove water by shaking the RSM. Always cover the audio jack and USB charging port with a dust cap when not in use.

Notice: This device is intended for use in occupational/controlled conditions where users are aware of their exposure and can exercise control over their exposure to meet the requirements in national and international regulations.

To ensure continued compliances with applicable RF exposure limits, use only Motorola Solutions approved, supplied or replacement antennas, batteries, and accessories.

For more information on what RF energy exposure is, and how to control your exposure to ensure compliance with established RF exposure limits, consult the following websites:

- https://www.fcc.gov/
- http://www.ic.gc.ca/eic/site/smt-gst.nsf/eng/sf11467.html
- http://www.ic.gc.ca/eic/site/smt-gst.nsf/eng/sf01904.html
- https://www.osha.gov/
- https://osha.europa.eu/en
- http://www.who.int/peh-emf/project/en/

For additional user training information on exposure requirements, consult the following websites:

- https://www.motorolasolutions.com/en_us/about/company-overview/corporateresponsibility/governance-and-policies/wireless-communication-and-healthfaqs.html
- https://learning.motorolasolutions.com/

Avis: Cet appareil a été conçu pour un usage professionnel dans un environnement contrôlé, où les utilisateurs sont pleinement conscients de l'exposition à l'énergie RF à laquelle ils sont soumis et peuvent exercer un contrôle sur cette exposition afin de respecter les limites établies par les règlements nationaux et internationaux.

Pour assurer la conformité continue avec les limites d'exposition aux RF applicables, utilisez uniquement les antennes, les batteries et les accessoires de remplacement ou fournis et approuvés par Motorola Solutions.

Visitez les sites Web suivants pour obtenir plus de renseignements sur ce qu'est l'énergie RF et sur les moyens de contrôle à prendre afin de respecter les limites établies en matière d'exposition aux radiofréquences:

- https://www.fcc.gov/
- http://www.ic.gc.ca/eic/site/smt-gst.nsf/eng/sf11467.html
- http://www.ic.gc.ca/eic/site/smt-gst.nsf/eng/sf01904.html
- https://www.osha.gov/
- https://osha.europa.eu/en

http://www.who.int/peh-emf/project/en/

Pour plus de renseignements sur la formation des utilisateurs relativement aux limites d'exposition, consultez les sites suivants:

- https://www.motorolasolutions.com/en_us/about/company-overview/corporateresponsibility/governance-and-policies/wireless-communication-and-healthfaqs.html
- https://learning.motorolasolutions.com/

Accessory Manager App Introduction

Download and Install Accessory Manager application from Google Play Store for future software upgrades and new feature releases.

https://play.google.com/store/apps/details?id=com.motorolasolutions.ama

RSM Overview

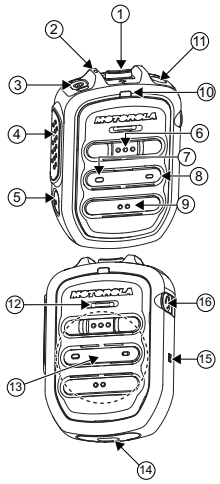

Table 1: RSM Overview and Description

No.	Description
1	Volume toggle
2	Power Indicator
3	Power button
4	Push-To-Talk (PTT) button
	PTT call can be either transmitted to a talkgroup or individual user
5	Multifunction (MFB) Button
	Available multiple functions: To change language in disconnected state To answer calls upon incoming call To reject calls upon incoming call To end calls upon ongoing call To mute/unmute microphone upon ongoing call
6	P1 button
	Function is set by the host: WAVE: WAVE *Operational Status Messaging MOTOTRBO ION & TLK100: As set by radio
7	P2 button
	Function is set by the host: WAVE: Channel down MOTOTRBO ION & TLK100: As set by radio
8	P3 button
	Function is set by the host: WAVE: Channel up MOTOTRBO ION & TLK100: As set by radio
9	P4 button
	Function is set by the host: WAVE: WAVE *Operational Status Messaging MOTOTRBO ION & TLK100: As set by radio
10	Audio/Bluetooth Indicator
11	Emergency button
12	Microphone
13	Speaker
14	Charging port
15	NFC Location
16	Audio jack

* Operational Status Messaging require pre-configuration in the WAVE Application.

Radio/Device Compatibility

- LEX Series
- SLN 1000
- TLK 100
- MOTOTRBO ION (minimum firmware R03 required)
- Other compatible non-Motorola Solutions devices

Table 2: Compatible Parts and Accessories

Part Number	Description
PMLN7560_	Receive-only earpiece with translucent tube
42009312001	Belt Clip
4205823V01	
CB000756A01	USB-C Cable (1 m)

- These accessories can be paired with a Kodiak Broadband PTT enabled device. Currently, the supported Kodiak feature is Operational Status Messaging (the additional features will be added in the future), please refer to your Kodiak User Guide for setup instructions.

- The MAC Address is located on top of the individual box and within the QR code behind the belt clip.
- Additional MAC Address labels are provided in the individual box.

Getting Started

Before you start, fully charge the RSM. To charge, connect the USB charging cable to the RSM and plug it to the USB power source.

Table 3: Charging Indicator Behavior

Power Indicator	Description
Blinking red[a]	Battery is low
Solid red	Battery is charging
Solid green	Battery is fully charged
Blinking green	More than 90% charged
Rapid blinking red	Charging error

a. Charge the RSM immediately to prevent flat-battery condition.

When RSM is not charging, read the following table to understand the indication.

Table 4: Battery Indication

Power Indication	Description
Rapid blinking red	Battery level is critically low
Blinking red	Battery level is low
Off[a]	Battery is medium or high

a. Press the Power button to get the status.

Read the following table to understand the audio and Bluetooth status indication.

Table 5: Audio and Bluetooth Status

Audio/ Bluetooth Indication	Description
Blinking in blue	Enter pairing
Solid blue	Disconnected
Double blinking blue (Once)	Connected
Solid red	Mic muted
Blinking in red	Voice prompt/Tone mute
Blinking in green	Receiving incoming call

Short press the Power button to determine the details status of the RSM.

Table 6: Status Indication

Indicator	Status	Description
Audio/ Bluetooth	Double-blinking blue	Connected
Power	Double blinking green	Battery level is high
	Double-blinking amber	Battery level is medium

Table 7: WM500 RSM Button Operations

Button	State	Short Press	Long Press (>1.5 s)	Very Long Press (>3s)
Power	Off	N/A	Power On	Enter pairing
	On	RSM turns on	N/A	Power off
PTT	Connected	PTT for Kodiak Group Call		
	Not connected	Kodiak pairing	N/A	N/A
Power+PTT	Off	N/A	N/A	Power on and clear PDL
Power+Call button	On	N/A	N/A	Enter/Exit Dark Mode
Call Button	Not connected	Switches language	N/A	N/A
	Incoming call	Answer call	Reject call	N/A
	On call	Mic Mute	End call	N/A
Volume+	Connected	Volume increase by one step	Volume ramp up	
	At maximum volume	Volume max tone		
Volume-	Connected	Decrease volume by one step	Volume ramp down	
	At minimum volume	Volume min tone		

Pairing the RSM through Bluetooth

1. While RSM is power off, press and hold the Power button until you hear “Power On” followed by “Searching for Host”, and the blue LED blinks.
2. From the compatible device, search and select “WM500” from the Bluetooth list.
3. Once the devices are paired successfully, a tone is played.
4. A voice prompt from the RSM indicates that the device is “Connected”.
5. For iPhone, choose RSM from the Bluetooth list and pair again for second time.

Pairing the RSM through NFC

1. While RSM is power off, press and hold the Power button until you hear “Power On” followed by “Searching for Host”, and the blue LED blinks.
2. Align the NFC locations on both the RSM and the compatibles devices.
3. Check the compatible device for indication of successful pairing.

Unpairing the RSM

1. While RSM is power off, press and hold the Power button and PTT buttons.

The blue LED blinks and a voice prompt from the RSM indicates that the paired device is “Cleared”.

Service and Warranty

Other than the clip, the RSM is not repairable. The RSM is covered under the standard Motorola Solutions one-year limited warranty.

Warranty Exclusion

Motorola Solutions does not warrant the installation, maintenance or service of the Product, accessories, batteries or parts. Motorola Solutions will not be responsible in any way for problems or damage caused by any ancillary equipment or peripherals (specific examples include, but are not limited to: batteries, chargers, adapters, and power supplies) not furnished or manufactured by Motorola Solutions which is attached to or used in connection with the Product. When the Product is used in conjunction with ancillary or peripheral equipment not supplied by Motorola Solutions, Motorola Solutions does not warrant the operation of the Product/peripheral combination and Motorola Solutions will not honor any warranty claim where the Product is used in such a combination and it is determined by Motorola Solutions that there is no fault with the Product. Upon open or dismantle the Product, warranty is immediately voided. Motorola Solutions specifically disclaim any responsibility for any damage in any way caused by improper installation by un-authorized personnel.

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This product contains Open Source Software. For information regarding licenses, acknowledgments, required copyright notices, and other usage terms, visit http://businessonline.motorolasolutions.com.

Go to Resource Center > Product Information > Manual > Accessories > Remote Speaker Microphones

Recommended Wearing Position

Note: For better performance, wear the RSM and the device on the same side.

FCC ID: AZ489FT6023
IC: 109U-89FT6023

For other WM500 manuals, refer to our Learning eXperience Portal: https://learning.motorolasolutions.com

- MN006039A01 - User Manual, English (Printed)
- MN006538A01 - User Manual, Multilingual (Online)
- MN006126A01 - Installation Guide, English (Online)