

**WM500  
Wireless Remote Speaker Microphone  
PMMN4127\_ User Leaflet**



**MN006039A01-AL**

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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.

provoquer un brouillage nuisible aux communications radio. Cependant, il est impossible de garantir qu'il n'y aura aucune interférence dans une installation particulière.

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.

**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>
- <https://www.who.int/peh-emf/project/en/>

**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.

**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.

**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.

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://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.

**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 fournisseur**

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

- 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.



**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.

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

**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 license-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

- 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.

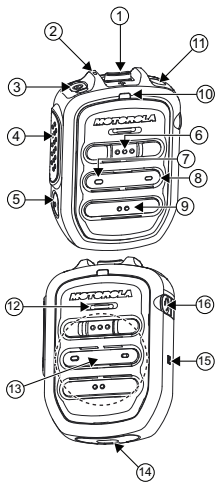
**Accessory Manager App Introduction**

Download and Install Accessory Manager application for future software upgrades and new feature releases.

**You are recommended to install Accessory Manager to upgrade accessory firmware to the latest version for the first time before use.**



## 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/tone in disconnected state To answer telephone calls upon incoming telephone call To reject telephone calls upon incoming telephone call To end telephone calls upon ongoing telephone call To mute/unmute microphone while call (Kodiak/telephone call) is active <b>Note:</b> The MFB button is not available for TLK series.
6	P1 button Function configured on the host or the WAVE application. WAVE default function: WAVE OSM

**Table 1: RSM Overview and Description**

No.	Description
7	P2 button Function configured on the host but not on the WAVE application. WAVE default function: Channel Down
8	P3 button Function configured on the host but not on the WAVE application. WAVE default function: Channel Up
9	P4 button Function is set by the host: Function configured on the host or the WAVE application. WAVE default function: WAVE OSM
10	Audio/Bluetooth Indicator
11	Emergency button
12	Microphone
13	Speaker
14	Charging port
15	NFC Location
16	Audio jack

**Note:**  
\* Operational Status Messaging (OSM) require pre-configuration in the WAVE Application.

\* Answer/reject/end call and microphone mute functionalities are not applicable for the radios.  
\* More programmable functions may be added on the WAVE application in the future. Refer to Kodiak User Guide for details.

### Radio/Device Compatibility

Refer to WM500 online manual for the list of compatible radios.

To support new radios and functionalities, always upgrade to the latest WM500 firmware.

**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), 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 <sup>a</sup>	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 <sup>a</sup>	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
MFB	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

- While RSM is power off, press and hold the Power button until you hear the "Power On" followed by "Searching for Host", and the blue LED blinks for 90 seconds during pairing mode.
- From the compatible device, search and select WM500\_xxxx from the Bluetooth list. Once the devices are paired successfully, a tone is played and a voice prompt from the RSM indicates that the device is "Connected".
- Perform the following choices based on your device:
  - For Android devices, no further action is required after step 2.
  - For MXP600, no further action is required after step 2.
  - For iPhone, choose RSM from the Bluetooth list. Then, pair again for second time.
  - For ION, radio display prompts another pairing request with RSM. Tap Pair when prompted. When successful, a tone is played from the RSM.
  - For R7, press the MFB button to start the connection process when you hear the "Ring" tone indicating Host is requesting for connection.

**Note:** The WM500 supports various pairing methods depending on the compatible device. If you are using TLK100 or TLK150, refer to *Wave Portal User Guide* for bluetooth pairing process. If you are using SLN1000, refer to *Nitro Portal User Guide* for bluetooth pairing process.

### Pairing the RSM through NFC

- 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.
- Align the NFC locations on both the RSM and the compatibles devices.
- Check the compatible device for indication of successful pairing.

### Unpairing the RSM

- Remove the RSM from the paired device list on the previously paired compatible device.
- From the power-off state, press and hold the Power and PTT buttons simultaneously. The RSM indicates that the paired device is "Cleared".

**Note:** Always unpair the WM500 from the Bluetooth host and ensure that the paired device is "Cleared" before starting another pairing process.

### 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.

### Open Source Software Legal Notices

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: A2489FT6023  
IC: 109U-89FT6023

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

Always refer to the online user manuals for the latest version.



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