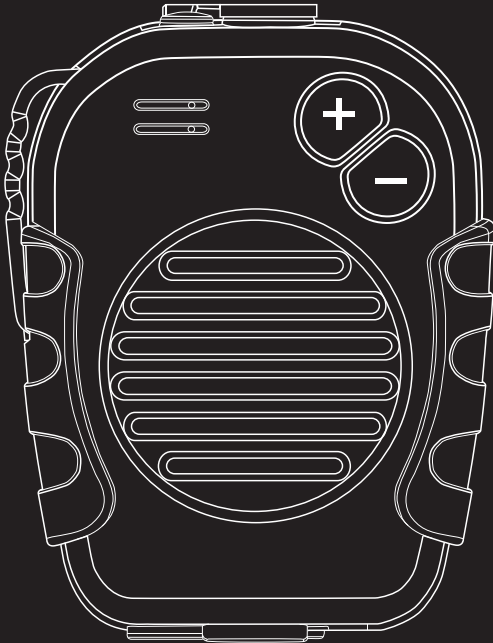


FreeMic 200™

Wireless Speakermic

User Guide



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Welcome

Congratulations, and thank you for choosing FreeLinc Technologies products to improve your two-way radio communications.

The FreeMic 200 Speakermic uses our highly secure and reliable Near Field Magnetic Induction (NFMI) to eliminate the chords and the cables **without Bluetooth**. FreeLinc Technologies' accessories will increase your safety margins and mobility for years to come, and we will always stand by the quality of our products.



Michael Abrams, MD
CFO

Product Overview

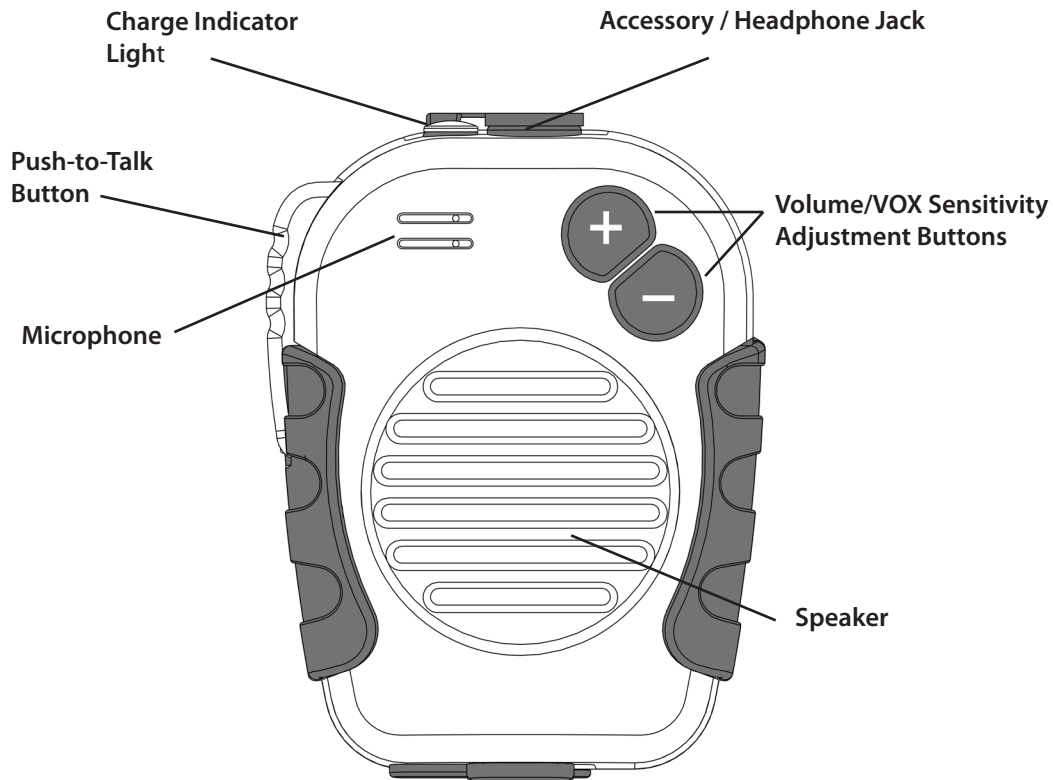
The FreeMic 200 is perfect for professionals who need to communicate without removing their radio from their duty belt, but would like to get rid of the cable. Using our patented Near Field Magnetic Induction (NFMI), a wireless bubble is created around the portable radio that allows only the accessory inside to connect. We increase your safety margins and mobility without the security and reliability risks of Bluetooth. The 2.5mm audio port allows the use of listen-only accessories for high-noise environments, or when discretion is required. Efficient re-use of power provides up to 50 hours of continuous talk time on a single 3.5 hr charge.

The FreeMic 200 is easy to use and requires no change in how you operate. Attach the adapter to your radio, pair the FreeMic to the adapter, and you're ready to go!

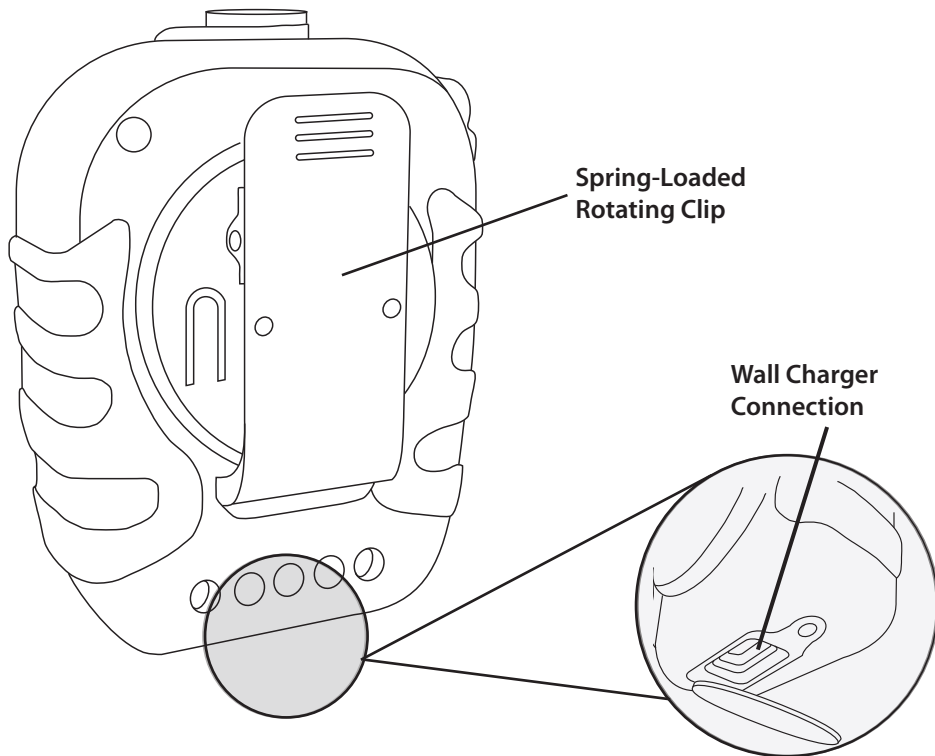
Package Contents

FreeMic 200 Speakermic
AC Power Adapter
User Guide
Tether Cord

FREEMIC 200 SPEAKERMIC DIAGRAM



FREEMIC 200 SPEAKERMIC DIAGRAM



BEFORE YOU BEGIN

Before You Begin

Operating Concepts and Terms

Pairing

Before your speakermic can communicate with an adapter, it must establish a link. To establish a link, the speakermic and adapter must exchange a randomly generated software ID code, which is stored on each device. This process is called “pairing.” The speakermic and adapter remain paired until you initiate the manual pairing sequence with a different adapter (see *Step Four: Pair Speakermic to Adapter* under *Using Your Speakermic for the First Time*).

Seek Mode

When your speakermic is trying to establish a link by searching for an adapter, it will initially enter “Seek Mode.” If it does not detect the adapter with which it has been paired, the speakermic will remain in Seek Mode for four hours before entering Sleep Mode.

Linking

After entering Seek Mode and finding the adapter with which it is paired, the speakermic will establish a link, and communication can occur. This link will remain active until you turn off the adapter or radio, at which point the speakermic returns to Seek Mode.

Sleep Mode

When your speakermic has remained in Seek Mode for four hours without finding a link, it will enter Sleep Mode. To wake up your speakermic from Sleep Mode, press the **Push-To-Talk** button, which activates Seek Mode.

BEFORE YOU BEGIN

Charging the Battery

To charge the battery on your speakermic, connect the included AC power adapter into an AC power outlet then to the charging jack located on the bottom of the speakermic (see *FreeMic 200 Speakermic Diagram*). In a few seconds, the charge indicator light on the speakermic will flash red, indicating that charging is in progress.

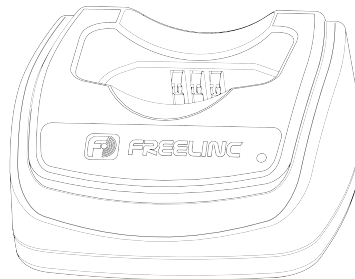
A fully charged battery should give you around 50 hours of talk time.

Important: Charge the speakermic battery at least six hours before first use. Subsequent charges take three hours (approximate). The charge indicator light will flash green when the speakermic battery is fully charged.

Important: Do not attempt to charge the speakermic battery using a cable other than the one provided by FreeLinc. Failure to comply may result in damage to the unit and/or decreased battery capacity.

Note: Please do not use or wear the speakermic while charging.

Recommended : Desk Top Charging Dock



SPEAKERMIC TONES

Alert Tones

When the link between the FreeMic 200 Speakermic and the adapter is broken, you will hear the following alert tones:

TONE	INDICATION
Three double beeps	Link is broken
Continuous series of beeps	Push-to-Talk button pressed while the link is broken

Indicator Tones

During operation, you will hear the following tones from your FreeMic 200 Speakermic:

TONE	INDICATION
Double short tone	Low Battery @ 20% (8 hrs remaining)
Single tone	Pairing/Linking achieved

Speakermic Volume Adjustment Tones

When pressing the Volume Up or Volume Down buttons to adjust the speakermic volume, you will hear the following tones:

TONE	INDICATION
Single tone	Volume Up/Volume Down button pressed
Double short tone, high pitched	Maximum volume reached
Mute, no sound	Minimum volume reached

NOTE

When the minimum volume is reached and mute activated, be aware that no audio will be emitted from either your portable radio or the speakermic.

Additionally, the adjusted volume setting(s) will be restored to the default level after charging or a forced reset.

GETTING STARTED

Getting Started

Using Your Speakermic for the First Time

Step One: Attach Adapter

Attach your FreeLinc adapter to the accessory interface of your portable radio (see your portable radio's user manual if you need assistance locating the accessory interface). If your adapter has a mounting clip on top, use the clip and locking screw to secure the adapter to your radio. If your adapter does not have a mounting clip, use the thumb screw to secure it to your radio. When properly attached, the spring-loaded pins will align with the contacts on the accessory interface of your portable radio and the adapter should fit securely.

Step Two: Turn On Adapter

Turn on your portable radio and set the toggle switch to "ON." This will automatically silence the speaker on your portable radio and route all communications to the speakermic.

Step Three: Exit Sleep Mode

Your speakermic will be in Sleep Mode when you take it out of the box the first time. To wake up your speakermic from Sleep Mode, press the **Push-To-Talk** button once. After you wake it up it automatically enters Seek Mode (see *Seek Mode* under *Operating Concepts and Terms*).

Step Four: Pair Speakermic to Adapter

When you take your speakermic out of the box the first time, you will need to manually pair it with an adapter. To initiate manual pairing, hold the speakermic within 10 inches of the adapter and simultaneously press the **Volume Up** and **Volume Down** buttons for three seconds. When you have successfully paired your speakermic to the adapter, the adapter indicator light will flash green, indicating a successful pairing.

CAUTION: When pairing, make sure that there are no other FreeLinc products within 6 feet of the devices being paired.

GETTING STARTED

Step Five: Establish Link (Automatic)

Once you pair your speakermic to an adapter, the two devices establish a communication link. This occurs automatically after pairing, and the link persists as long as the speakermic remains within the communication area. If you move your speakermic outside the defined area, the link is lost and the unit returns to Seek Mode.

While in Seek Mode, the speakermic attempts to locate the adapter to which it is paired. The adapter indicator light will flash red and will persist until the unit exits Seek Mode by either:

- Re-establishing the link with the adapter with which it is paired - when this occurs the adapter indicator light will flash green.
OR
- Entering Sleep Mode - this occurs when no link is established for four hours.

Step Six: Adjust Product Volume

The speakermic has eight volume levels. Use the Volume Up and Volume Down buttons

on your speakermic to adjust the volume. You can also use these buttons to adjust the microphone sensitivity; however, you must enter Mic mode to do so (see *Microphone Gain*).

CAUTION: If you press the Volume Down button continuously for six seconds, you will switch into *Microphone Gain* mode (see *Microphone Gain*).

Step Seven: Ending Use

There is no On/Off button on the speakermic. To turn off the speakermic, you can either turn the adapter toggle switch to “OFF,” or turn your portable radio off. Once you turn off the adapter, the link will be broken and the speakermic will enter Seek Mode. When the link has been broken for four hours, the speakermic will enter Sleep Mode and turn off.

Forced Reset

You can force the speakermic to turn off by pressing the Volume Up button continuously for six seconds.

MICROPHONE GAIN MODE

Mic Gain Operation

Adjusting Mic Sensitivity

Depending on background audio conditions, you may need to adjust the microphone sensitivity. Use the Volume Up and Volume Down buttons on your speakermic to increase or decrease sensitivity while in Mic Mode. The adjustments you make will be restored to the default level after charging or a forced reset.

Entering Mic Gain Mode

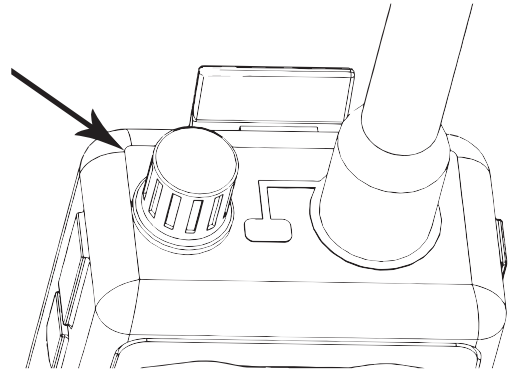
To enter Mic mode, press the **Volume Down** button on your speakermic for six seconds. The adapter indicator light will change from off to flashing orange.

Exiting Mic Mode

To exit Mic Gain Mode, press the Volume Down button on your speakermic for six seconds. the adapter indicator light will change from off to flashing orange.

Volume Settings

The optimal volume setting on all FreeLinc systems is to have your radio set to about 50% or in the 11 o'clock position on your radio.



Note: While in Mic Gain Mode, you can not adjust the volume using the UP and DOWN buttons. To adjust volume, you must exit Mic Gain Mode.

ADDITIONAL INFORMATION

Additional Information

Pairing Your Speakermic with Other Adapters

Manually Initiating the Pairing Process

To initiate manual pairing, hold the speakermic close to the adapter and simultaneously press the **Volume Up** and **Volume Down** buttons on your speakermic for three seconds. The adapter indicator light will flash solid green indicating a successful pairing. You can repeat this process at any time to break the existing pairing and establish a new pairing with any other adapter. Keep in mind that the speakermic can only be paired with one adapter at a time.

CAUTION: When pairing, make sure that there are no other FreeLinc products within 6 feet of the devices being paired.

Specifications

Wireless Technology	Near-Field Magnetic Induction
Battery Type	Lithium Polymer Rechargeable
Talk Time	Up to 50 hours continuous talk
Charger Type	6 volt AC-DC wall charger
Range	Up to 5 feet
Dimensions	3.2 x 2.4 x 0.8 inches
Weight	4 oz
Operating Temperature	-20 C to +60 C
Humidity	95% @ 8 hours (non-condensing)

ADDITIONAL INFORMATION

Frequently Asked Questions

What happens if I go out of range and lose the link between the speakermic and the adapter? When the speakermic is out of range of the adapter, the speakermic will beep and the adapter will blink red.

To establish the link, move the speakermic within range of the adapter. The adapter indicator light will resume flashing green.

Will my speakermic communicate with more than one adapter at a time? No. When the speakermic and adapter are paired they exchange a unique and individual ID. This exchange ensures that communication occurs only between the linked speakermic and adapter.

Can I charge my speakermic thru a USB cable on my computer or USB wall jack? No. The voltage needed on the speakermic is 6V and your computer and standard USB chargers are only 5V. Plugging in you speakermic to any other cable than the provided cable may cause damage to your computer or charger.

What happens if I lose my speakermic and need to use my radio to communicate ? Turn the adapter switch to OFF. With the adapter off, you can use your radio functions as if the radio were not attached.

Do I need to modify my radio in any way for the speakermic or adapter to work? No. The only requirement is that you have the appropriate adapter that belongs to your radio.

Do I need to pair my speakermic again when exiting the vehicle? No. If you turn off your portable radio when you enter your vehicle, the Seek Mode allows your FMC 200 to immediately reconnect to the radio once you've turned it back on when exiting the vehicle.

How soon should I recharge my speakermic when I hear the low battery alert? The low battery alert indicates 20% remaining charge, or approximately 8-10 hours of remaining talk time.

"Can I use the VOX capability in my radio?"
Our accessories work with VOX enabled radios

Tips and Suggestions

For up-to-date troubleshooting information, to get help with a specific problem or contact a customer service representative, please visit www.freelinc.com, and click the "support" link or call 1-866-467-1199.

SAFETY INFORMATION

Safety Information

Caution: To reduce the risk of fire or injury, please read and follow the instructions below.

- Do not dispose of product in a fire; the battery cells may explode. Check with local codes for possible battery disposal instructions.
- Use only the supplied charging unit to charge the product from an AC voltage or wall outlet.
- If the product becomes hot during charging, disconnect the AC adapter from the wall and contact qualified support personnel.
- Do not disassemble the AC adapter of this product as it may expose you to dangerous voltages or other risks. Incorrect reassembly can cause electric shock when the product is subsequently used.
- Do not use the charger outdoors or in damp areas.
- Only charge the product battery in accordance with the instructions in this manual.
- Never submerge your product in water or other liquids.
- Protect your product from spills, excessive rain, and wet locations.
- Do not use liquid cleaners or aerosol cleaners as they may damage the product or finish of the product. Use a dry cloth to clean the external portions of the product.
- Do not stick anything inside the product as this may damage internal components.
- This product conforms to the following safety standards:
 - ANSI/UL 60950-1 1st Ed.
 - CAN/CSA C22.2 No. 60950-1-03
 - EN 60950-1 1st Ed.

WARRANTY

Warranty

I. What this warranty covers and for how long:

- a. Radeum, Inc., doing business as FreeLinc ("FreeLinc"), warrants to Purchaser that its FreeLinc manufactured products ("Product") will substantially conform to FreeLinc's published specifications, as of the date of the Purchaser's purchase of the Product, and 18 months from the date of purchase (the "Warranty Period").
- b. Rechargeable batteries will be replaced during the warranty period if the battery develops leakage.
- c. FreeLinc, at its option, will at no charge either repair, replace, or refund the purchase price for warranted Product during the warranty period provided it is returned in accordance with the terms of this warranty to the place of purchase. Repair, at FreeLinc's option, may include the replacement of parts or boards with functionally equivalent reconditioned or new parts or boards. Replaced parts or boards are warranted only for the balance of the original Warranty Period. All replaced parts or Product shall become the property of FreeLinc.
- d. This express limited warranty is extended by FreeLinc to the original end user purchaser only and is not assignable or transferable to any other party. This is the complete warranty for Product manufactured by FreeLinc. FreeLinc assumes no obligations or liability for additions or modifications to this warranty unless made in writing and signed by an officer of FreeLinc. Unless made in a separate written agreement between FreeLinc and the original end user purchaser, FreeLinc does not warrant the installation, maintenance or service of warranted Product.
- e. FreeLinc is not responsible in any way for any ancillary

equipment not furnished by FreeLinc which is attached to or used in connection with Product, or for operation of the Product with any ancillary equipment and all such equipment is expressly excluded from this warranty. Because each system which may use the Product is unique, FreeLinc disclaims liability for range, coverage, or operation of the system as a whole under this warranty.

II. What this warranty does not cover:

- a. Defects or damage resulting from use of the Product in other than its normal and customary manner.
- b. Defects or damage from misuse, accident, water or neglect.
- c. Defects or damage from improper testing, operation, maintenance, installation, alteration, modification, or adjustment.
- d. A Product subjected to unauthorized Product modifications, disassemblies, or repairs.
- e. Product which has had the serial number removed or made illegible.
- f. Rechargeable batteries if the damage or defect is caused by charging or using the battery in equipment or service other than the Product for which it is specified.
- g. Shipping costs related to Product returned for warranty claims.
- h. A product which, due to illegal or unauthorized alteration of the software/firmware in the Product, does not function in accordance with FreeLinc's published specifications or the FCC type acceptance labeling in effect for the Product at the time the Product was purchased.

III. How to get warranty service:

- a. Purchaser shall notify FreeLinc of any nonconformance during the warranty period, and obtain a written return material authorization ("RMA") and an RMA number for the

WARRANTY/ FCC COMPLIANCE

nonconforming Product from FreeLinc.

- b. Purchaser shall return the nonconforming Product to the place of purchase shipping prepaid.
- IV. Limitation of Liability:
 - a. This warranty sets forth the full extent of FreeLinc's responsibilities regarding the Product. Repair, replacement, or refund of the purchase price, at FreeLinc's option, is the exclusive remedy.
 - b. THE FOREGOING WARRANTIES ARE THE SOLE WARRANTIES, EXPRESS OR IMPLIED, GIVEN BY FREELINC IN CONNECTION WITH THE PRODUCT, AND FREELINC DISCLAIMS ALL OTHER WARRANTIES EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NONINFRINGEMENT OF THIRD-PARTY RIGHTS.
 - c. FREELINC SHALL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES IN CONNECTION WITH THE PRODUCT, EVEN IF FREELINC HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.
 - d. EXCEPT FOR CLAIMS FOR BODILY INJURY (including death) AND CLAIMS FOR DAMAGE TO REAL PROPERTY AND TANGIBLE PERSONAL PROPERTY, FREELINC'S LIABILITY FOR ALL OTHER CLAIMS SHALL NOT EXCEED THE AMOUNT PAID TO FREELINC FOR THE PRODUCT GIVING RISE TO FREELINC'S LIABILITY. THIS LIMIT OF LIABILITY ALSO APPLIES TO OUR MANUFACTURERS AND DISTRIBUTORS. IT IS THE MAXIMUM AMOUNT FOR WHICH WE ARE COLLECTIVELY RESPONSIBLE.

FCC Compliance

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 manufacturer's instructions, may cause interference harmful to radio communications.

There is no guarantee however, that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by comparing 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 your supplier or an experienced radio/TV technician for assistance.

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.



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6,459,882, 5,982,764, 5,912,925, 5,771,438
7,732,901, 7,565,187, 7,574,173

The FreeMic 200 Wireless Speakermic may not be
authorized for use in some countries.

Engineered in USA