



MOTOROLA



Motorola &

Bluetooth™

Wireless Technology...

See What The Attachment Is!



intelligence  everywhere™

Motorola, the leader in two-way communication products, presents short-range wireless connectivity that cuts the cord to past technology.

Motorola is now making available Bluetooth™ Wireless Technology in its two-way communication products.

Bluetooth™ Wireless Technology provides connectivity without wires. This technology is based on a radio link that offers fast and reliable transmissions of both voice and data. The future of Bluetooth™ Wireless Technology will allow users to make effortless connections between various communication products such as two-way radios, mobile phones, desktop computers and notebook computers.

Motorola is on the front line of this technology by providing users of two-way radios, the first wireless remote speaker microphone. And, the future of this technology will lead Motorola to other cordless products such as headsets and earpieces for two-way radio users.

With the development of this new remote speaker microphone with Bluetooth™ Wireless Technology, users can now work and communicate in a cord free environment.

Motorola's wireless remote speaker microphone enables workers to...

- leave their two-way radio on their desk while communicating up to 30 ft away
- not worry about cords getting caught in other equipment
- change equipment or uniforms without worrying about interference from cords.

Bluetooth™ Wireless Technology is designed to be fully functional even in very noisy radio frequency environments, and its voice transmissions are audible under some of the most severe conditions. The new Remote Speaker Microphone with Bluetooth™ Wireless Technology functions as a standard "wired" speaker microphone, only without the cord!

How It Works: This wireless remote speaker microphone communicates to a two-way radio through an adapter equipped with Bluetooth™ Wireless Technology, and an adapter capable battery that is attached to a Motorola two-way radio. The user simply turns on the radio and the remote speaker microphone - the Bluetooth™ Wireless Technology does the rest. The adapter and remote speaker microphone with the Bluetooth™ Wireless Technology "connect" and "link" to each other wirelessly.

The versatility enhances mobility and provides innovative new ways for people and machines to interact.



Remote Speaker Microphone Kit
HLN3156A (HT1250 radio not included)



Attach yourself to Motorola and Bluetooth™ wireless technology.

Motorola products utilizing *Bluetooth™* wireless technology have application for:

• *Manufacturing* • *Construction* • *Warehousing* • *Hospitality* • *Utilities* • *Retail*

Motorola offers the following products with *Bluetooth™* Wireless Technology. Compatible with Motorola HT750™ and HT1250™ two-way radios.

HLN3156A – Wireless Remote Speaker Microphone Kit

Includes Remote Speaker Microphone with *Bluetooth™* Wireless Technology. (HMN3158A) and Radio Adapter (HHLN4125A). The Adapter Capable Battery (HNN9003AR) is required, but sold separately.

List: \$325.00

HNN9003AR – Adapter Capable NiMH Battery

1200 mAh, 7.5 volt

List: \$59.00

Replacement and Additional Accessories for Motorola products with *Bluetooth™* Wireless Technology.

HMN3158A – Remote Speaker Microphone with *Bluetooth™* Wireless Technology.

Requires Radio Adapter (HHLN4125A) and Adapter Capable Battery (HNN9003AR) to operate.

List: \$185.00

HHLN4125A – Radio Adapter with *Bluetooth™* Wireless Technology.

List: \$165.00

RLN5321A – Carry Case for Remote Speaker Microphone with *Bluetooth™* Wireless Technology.

Features belt clip, belt loop and armband which give users a variety of options for securing their remote speaker microphone.

List: \$20.00

RLN5213A – Leather Carry Case

Accommodates HT750 OR HT1250 two-way radio with Radio Adapter (HHLN4125A) and Adapter Capable Battery (HNN9003AR).

List: \$59.00

HLLN9701B – Nylon Carry Case

List: \$24.00

6080384K75 – Motorola AA Replacement Batteries

48 pack Alkaline Batteries. For use with Remote Speaker Microphone (HMN3158A)

List: \$18.00

WADN4190A – Flexible Ear Receiver with 2.5mm plug

Rests externally to the ear.

List: \$43.00

AARLN4885A – Receive only Earpiece with 3.5mm plug

Translucent Tube and rubber ear tip included.

List: \$25.00

Order Information: <http://Accesssecure.mot.com/Accesspoint>,

Motorola Online Users: <https://businessonline.motorola.com>

Phone: 1-800-422-4210, **For TTY Customers:** 1-866-522-5210, **Fax:** 1-800-622-6210



Remote Speaker Microphone
HMN3158A



NiMH Battery
HNN9003AR



Radio Adapter
HHLN4125A



- Motorola HT1250
- NiMH Battery
- Radio Adapter



Remote Speaker Microphone requires three AA alkaline batteries. Battery life is approximately 50 hours, depending on usage. Motorola travel charger (RLN4883A) cannot be used in conjunction with the radio when the battery (HNN9003A) and radio adapter (HHLN4125A) are attached to the radio. Using the remote speaker microphone with *Bluetooth™* Wireless Technology may cause a slight delay in transmission similar to radios used with Voice Activated (VOX) technology. These devices operate in the unlicensed ISM frequency band 2.402-2.480 GHz. Devices operating in this frequency are subject to interference from other devices. Interference effects range in severity from poor to garbled audio to complete loss of communication between *Bluetooth™* Wireless Technology enabled two-way radio and corresponding *Bluetooth™* Wireless Technology enabled audio accessory. The latter effect is referred to as a "lost link" and results in the inability to use the *Bluetooth™* Wireless Technology audio accessory. ALWAYS KEEP YOUR TWO-WAY RADIO READILY AVAILABLE FOR USE IN THE EVENT OF *BLUETOOTH™* WIRELESS TECHNOLOGY LINK IS LOST. Examples of potential interference sources operating in the ISM band include 802.11b wireless local area networks (LANs), Home RF residential wireless LANs, microwave ovens, computers, and 2.4 GHz wireless phones.

Work in a wireless world

*It is not just a question of connecting to the other side of the globe.
It is as much a question of connecting to the other side of the room.*



Specifications for Remote Speaker Microphone with Bluetooth™ Wireless Technology (HMN3158A)

Compatible with Professional Radio Series portable radios: (HT750/HT1250 radios; UHF1/UHF2/VHF bands)

Bluetooth Compliance: Serial Port Profile (SPP), Bluetooth V1.0b, Class 2 (1.0 mW)

Material Safety: High Impact, High Temperature, Non-Skin Irritating Polycarbonate

Physical Specifications: Approximate Size: 37 x 61 x 89 mm (1.5 x 2.4 x 3.5 in) not including attachment clip
Mass/Weight: 170 grams (6.0 oz) not including attachment clip

MECHANICAL SPECIFICATIONS

Military Standard 810E: Rain (Water Resistant): Method 506.3, Procedure 2
Salt Fog: Method 509.3, Procedure 1

Mechanical Shock: TIA/EIA-603, paragraph 3.3.5

Sine Vibration: TIA/EIA-603, paragraph 3.3.4

Operating Temperature: -20C to +55C (with 3 AA alkaline batteries installed)

PTT Operations: 250,000 minimum

Attachment Clip: Rotates 360 degrees

Coil Cord: *Not applicable - Cordless!*

ACOUSTICAL SPECIFICATIONS

Microphone: Electret Microphone

Type: Omnidirectional

Frequency Range: 300 Hz to 3400 Hz

Max Total Harmonic Distortion: Less than: 5% @ 1 kHz input in anechoic chamber

Hum and Noise: Less than: -35 dB

RECEIVER

Acoustical Output: Minimum 80 dB SPL at 30 cm. distance. Maximum 120 dB SPL

Frequency Response: 500 to 3000 Hz. Flatness: less than 10 dB

Max Total Harmonic Distortion: Less than 10% @ 1 kHz input in anechoic chamber

Hum and Noise: Less than: -40 dB

Specifications for Radio Adapter with Bluetooth™ Wireless Technology (HHLN4125A)

Compatible with Professional Radio Series portable radios: (HT750/HT1250 radios; UHF1/UHF2/VHF bands)

Bluetooth Compliance: Serial Port Profile (SPP), Bluetooth V1.0b, Class 2 (1.0 mW)

Material Safety: High Impact, High Temperature, Non-Skin Irritating Polycarbonate

Physical Specifications: Approximate Size: 12 x 49 x 89 mm (0.5 x 1.9 x 3.2 in) not including side connector
Mass/Weight: 50 grams (1.7 oz)

MECHANICAL SPECIFICATIONS

Military Standard 810E: Rain (Water Resistant): Method 506.3, Procedure 2

Mechanical Shock: not required

Salt Fog: Method 509.3, Procedure 1

Sine Vibration: TIA/EIA-603, paragraph 3.3.4

ACOUSTICAL SPECIFICATIONS

Microphone NOT APPLICABLE

Receiver NOT APPLICABLE

Lit # 01054-BLTOOTHSMML



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