



# ***ACCESSORIES AND BATTERIES***

Discontinued Portable and Mobile Radios





## ***Nothing beats a Motorola Original® Accessory***

### **Police**

*Whether in hot pursuit or investigating a cold case, communication can be made much easier with a Remote Speaker Microphone – it lets professionals respond instantly without the need to reach for the radio controls.*

### **Fire**

*It takes two hands for climbing ladders and controlling hoses, and solutions like our Chest Pack provide both welcome freedom and valued protection in the heat of the action.*

### **Emergency Response**

*First responders deserve first-class tools for communicating their position and conditions, and our Lightweight Headsets help everyone quickly and clearly get the message.*

### **Security**

*From crowd control to answering an alarm signaling illegal entry, a fully accessorized mobile radio helps professionals respond more quickly.*

*When you see the  
Motorola Original® logo  
you know the products are built and tested  
to meet the highest standards.*

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## *HT 1000™, JT 1000™, MTX 8000™, and MTX 9000™*

### ***Motorola Original® Accessories let you make the most of your portable radio's capabilities.***

You made a sound business decision when you chose your Motorola radio. When you choose performance-matched Motorola Original® accessories, you're making another good call.

That's because every Motorola Original® accessory is designed, built and rigorously tested to the same quality standards as Motorola radios. So you can be sure that each will be ready to do its job, time after time.

What's more, insisting on Motorola Original® accessories can help increase your productivity.

That's because you can count on every accessory to do its job time after time. If you take a chance on a mismatched battery, a flimsy headset or an ill-fitting carry case, your radio may not perform at the moment you have to use it.

Keep your Motorola radio performing at its peak. Count on this collection of Motorola Original® accessories for your important business communication needs. You'll find remote speaker microphones for more convenient control. Carry cases for ease when on the move.

Earpieces to ensure privacy. Headsets for hands-free operation. High-capacity batteries to extend work time, and more. They'll help you work smarter, harder and with greater convenience.

*These dependable portable radios continue to provide a rugged and reliable solution for business communication.*

**HT 1000, JT 1000, MTX 8000 AND MTX 9000 PORTABLE RADIOS**

With our dedication to continual improvement, we discontinue Motorola portable radio models from time to time — but the durability and ease of use you've come to expect stays intact. So with the right Motorola Original® accessories, you can help ensure your radio will continue to meet your needs for a long time to come.

Accessories compatible with MT 2000 and MTS 2000.

**HT 1000™**

**JT 1000™**

**MTX 8000™**

**MTX 9000™**





# HT 1000™, JT 1000™, MTX 8000™, and MTX 9000™

## audio

### Windporting Remote Speaker Microphone

The Windporting feature of these microphones helps lessen 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. The Windporting Remote Speaker Microphones allow talking and listening without removing the radio from the belt or case. Both have a coiled cord, Push-to-Talk switch, swivel clip, and quick disconnect latch.

PMMN4038A Remote Speaker Microphone with IP57 Rating

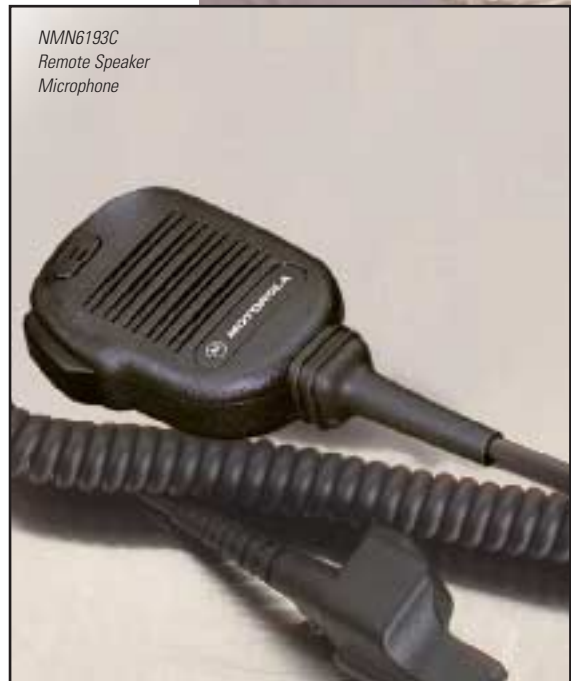


PMMN4038A  
Remote Speaker  
Microphone with  
IP57 Rating

### Remote Speaker Microphones – RSM

These compact Remote Speaker Microphones are water-resistant and allow talking and listening without removing the radio from the belt or case. They have a 6-foot coiled cord assembly, 3.5mm earjack, swivel clip and quick disconnect latch. Adapter NNTN4285A required.

NMN6193C\* Remote Speaker Microphone  
NMN6191C\* Noise-Cancelling Remote Speaker Microphone  
0104010J46 Replacement Coil Cord Assembly for Remote Speaker Microphone



NMN6193C  
Remote Speaker  
Microphone

### Epaulet Strap

Black leather Epaulet Strap secures Remote Speaker Microphone to epaulet on shirt or jacket and accommodates back clip in leather cut-outs. Snap closure secures cord to allow reliable communications in hostile environments.

RLN4294A Epaulet Strap, Velcro  
RLN4295A Epaulet Strap, with Clip

### Mandown, Public Safety Tilt Switch

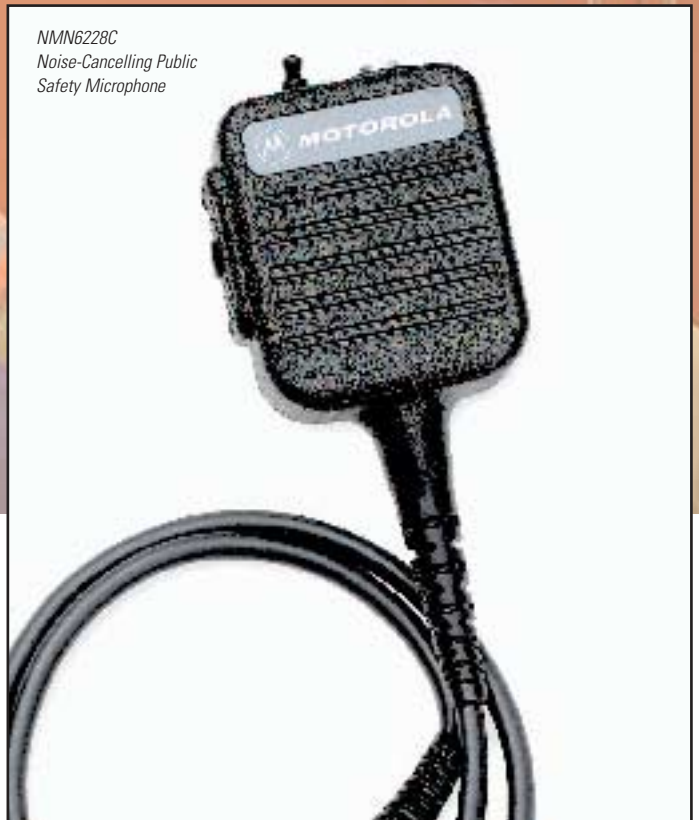
The Mandown, Public Safety Tilt Switch functions as an external emergency switch that is activated when the radio unit is tilted at an angle greater than 60 degrees. Delay times are factory programmed for 8 seconds and are not field programmable. No other audio accessory can be attached to the radio while the tilt switch is attached. Radio must be programmed to enable the emergency tilt feature. Not compatible with the JT 1000.

NTN7660B\* Mandown, Public Safety Tilt Switch

\*Intrinsically Safe.

# Public Safety Microphones:

Emergency professionals will appreciate the reliability of this PSM. It's designed to help increase coverage so users can communicate clearly and accurately.



## Public Safety Microphones – PSM

Public Safety Speaker Microphones include straight cord assembly, 3.5mm earjack, swivel clip, quick disconnect latch, antenna connector and receive audio high/low toggle switch. Use with radio's antenna, sold separately. RF adapter is included.

- NMN6228C\* Noise-Cancelling Public Safety Microphone with 30 Inch Straight Cord
- NMN6243B\* Noise-Cancelling Public Safety Microphone with 18 inch Straight Cord
- NMN6244B\* Noise-Cancelling Public Safety Microphone with 24 Inch Straight Cord

## MicJackets

MicJackets provide speaker microphone users with a way to further protect the "head" of their microphone from dust, dirt, metal particles, sweat, body oils and other on-the-job grime. MicJackets also help make handling and interacting with the speaker microphone more hygienic.

- RLN5002A MicJacket – RSM  
Fits NMN6191C and NMN6193C.
- RLN5004A MicJacket – PSM  
Fits NMN6228C, NMN6243B and NMN6244B.

RLN5002A  
MicJacket



*MicJackets provide a way to further protect the "head" of the microphone from dust, dirt, metal particles, sweat, body oils and other on-the-job grime.*

\*Intrinsically Safe.



# HT 1000™, JT 1000™, MTX 8000™, and MTX 9000™

## audio



RLN5311A  
Earpiece with  
Microphone and  
PTT Combined



RLN5313A  
Comfort Earpiece,  
Receive-Only

### Surveillance Kits

Surveillance accessories allow the radio user to privately receive messages with the earpiece and are ideal when environments require discreet communication. These surveillance accessories require the 3.5mm threaded audio adapter PMLN4455A that attaches to the radio, unless being used with a remote speaker microphone.

#### 1-WIRE SURVEILLANCE KITS

- BDN6664A\* Receive-Only Earpiece with Standard Earphone (1-Wire). Beige.
- BDN6665A\*† Extra Loud Receive-Only Earpiece with Standard Earphone (1-Wire). Beige.
- BDN6726A\* Receive-Only Earpiece with Standard Earphone (1-Wire). Black
- BDN6727A\*† Extra Loud Receive-Only Earpiece with Standard Earphone (1-Wire). Black
- BDN6666A\*† Receive-Only Earpiece with Volume Control and Earloop (1-Wire). Beige.
- BDN6728A Receive-Only Earpiece with Volume Control and Earloop (1-Wire). Black.

#### 2-WIRE SURVEILLANCE KITS

- BDN6667A\* Earpiece with Microphone and PTT Combined (2-Wire). Beige.
- BDN6669A\*† Extra Loud Earpiece with Microphone and PTT Combined (2-Wire). Beige.
- BDN6729A Earpiece with Microphone and PTT Combined (2-Wire). Black.
- BDN6731A† Extra Loud Earpiece with Microphone and PTT Combined (2-Wire). Black.

#### 3-WIRE SURVEILLANCE KITS

- BDN6668A\* Earpiece with Microphone and PTT Separate (3-Wire). Beige.
- BDN6670A\*† Extra Loud Earpiece with Microphone and PTT Separate (3-Wire). Beige.
- BDN6730A Earpiece with Microphone and PTT Separate (3-Wire). Black
- BDN6732A† Extra Loud Earpiece with Microphone and PTT Separate (3-Wire). Black.

#### SURVEILLANCE REPLACEMENT ACCESSORIES

- PMLN4455A\* 3.5mm Threaded Audio Adapter
- BDN6676D\* 3.5mm Audio Adapter with Quick Disconnect Latch
- 5080370E97 Replacement Standard Rubber Eartips, Clear. Pack of 25.

### Surveillance Kits – With Extended-Wear Comfort Earpiece

These kits include an extended-wear comfort earpiece with rubber eartip and clear, comfortable acoustic tube. Users hear transmissions clearly, while the clear tube provides a discreet appearance.

- RLN5314A Comfort Earpiece, Receive-Only. Beige.
- RLN5313A Comfort Earpiece, Receive-Only. Black.
- RLN5311A Earpiece with Microphone and PTT Combined (2-Wire). Beige.
- RLN5312A Earpiece with Microphone and PTT Combined (2-Wire). Black.

\*Intrinsically Safe.

†Extra loud earphone (exceeds OSHA limits).

## Quick Disconnect Noise Kits:

*The Quick Disconnect Adapter allows users, especially those in multiple shift operations, to easily remove or alternate acoustic tubes.*

### Quick Disconnect Noise Kits

Extreme Noise Kits provide extra comfort and/or noise protection for users wearing surveillance accessories. Lightweight, translucent tube attaches to Motorola surveillance accessories to provide flexibility and comfort, which now includes a new quick disconnect adapter. The Quick Disconnect Adapter allows users, especially those in multiple shift operations, to easily remove or alternate acoustic tubes. Clothing clip prevents accessory from being pulled from the ear due to body movement or head rotation. For optimal performance, Extra Loud Earphones are recommended.

RLN6230A	Extreme Noise Kit. Includes 2 foam earplugs For high-noise environments. Noise reduction = 24dB. Can be used with Clear Comfortable Earpieces. Black.
RLN6231A	Extreme Noise Kit. Includes 2 foam earplugs For high-noise environments. Noise reduction = 24dB. Can be used with Clear Comfortable Earpieces. Beige.
RLN6232A	Low Noise Kit - Clear Acoustic Tube Assembly Includes 1 clear rubber eartip. For low-noise environments, does not provide hearing protection. Black.
RLN6241A	Low Noise Kit - Clear Acoustic Tube Assembly Includes 1 clear rubber eartip. For low-noise environments, does not provide hearing protection. Beige.
5080369E39†	Extra Loud Earphone. Beige.
5080370E91†	Extra Loud Earphone. Black.

### REPLACEMENT ACCESSORIES

RLN6242A	Quick Disconnect Acoustic Tube Replacement
5080384F72	Replacement Foam Plugs. For RLN6230A and RLN6231A. Noise reduction = 24dB. Pack of 50.
5080370E97	Replacement Standard Clear Rubber Eartips. Pack of 25. For RLN6232A and RLN6241A.

### Pellet-Style Earpieces

Pellet-style earpieces allow users to receive communication discreetly and are comfortable for extended-wear use.

BDN6780A	Single Earbud with Microphone and PTT. Requires BDN6676D.
BDN6781A	Earbud, receive-only. Requires BDN6676D unless used with a RSM.
BDN6676D	3.5mm Audio Adapter with Quick Disconnect Latch
7580372E70	Replacement Foam Ear Cushion for Pellet Earpieces

### Flexible Ear Receiver

This receive-only earpiece contains a flexible earloop and speaker which rests external to the ear. It plugs directly into adapter or the earjack on speaker microphones.

BDN6719A	Flexible Ear Receiver
7580372E11	Replacement Foam Ear Cushion

### Clear Comfortable Earpieces

The Clear Comfortable Earpiece forms to the inside of the ear and is perfect for low-noise environments. It's made of easy-to-clean, chemically-inert, hypo-allergenic material. Compatible with Motorola Noise and Surveillance Kits.

RLN4760A	Small Custom Earpiece - Right Ear
RLN4761A	Medium Custom Earpiece - Right Ear
RLN4762A	Large Custom Earpiece - Right Ear
RLN4763A	Small Custom Earpiece - Left Ear
RLN4764A	Medium Custom Earpiece - Left Ear
RLN4765A	Large Custom Earpiece - Left Ear



RLN6230A  
Extreme Noise Kit



RLN6241A  
Low Noise Kit



From left to right,  
top to bottom:

RLN4765A  
RLN4762A  
RLN4764A  
RLN4761A  
RLN4763A  
RLN4760A

\*Intrinsically Safe.  
†Extra loud earphone (exceeds OSHA limits).



# HT 1000™, JT 1000™, MTX 8000™, and MTX 9000™

## audio

### Completely Discreet Earpiece

Enables users to communicate with ease, in full privacy, without visible equipment. This miniaturized receiver is discreetly hidden in the ear, where it can be worn comfortably for long periods of time. Small as it is, it offers a full range of audio functions including automatic squelch, automatic gain control and noise filtering. Average battery life is approximately 100 hours and includes an end-of-life warning signal when the battery needs to be changed. Kit includes wireless receiver, inductive neckloop, 6 spare batteries and 5 spare earguards. For use with standard 2 or 3-Wire Motorola Surveillance Kits.

- RLN4922A Completely Discreet Earpiece Kit
- RLN4919A Replacement Earguards. 5 per pack.
- RNN4055A Replacement 1.4 Volt Batteries. 6 per pack.

### CommPort™ Integrated Microphone/Receiver System

The CommPort System's advanced, self-adjusting microphone and miniature receiver connect to a two-way radio and make it possible to communicate under the most adverse conditions. A variety of Push-to-Talk options allow the user to customize the CommPort system. 3.5mm adapter BDN6676D included.

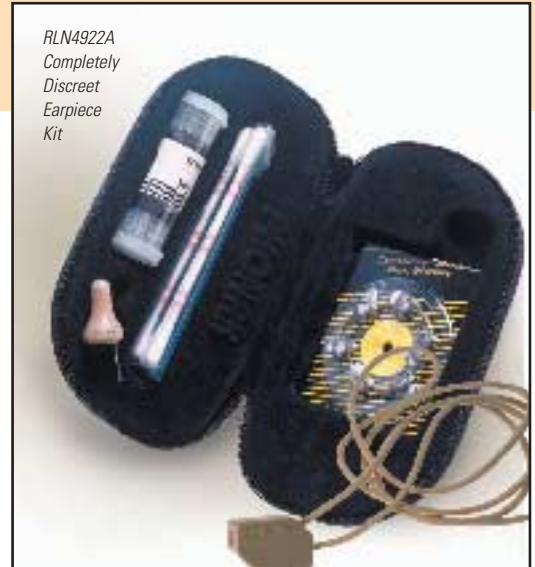
- NTN1625A\* Integrated Ear Microphone/Receiver System with PTT on Radio Adapter.
- NTN1624A\* Integrated Ear Microphone/Receiver System with Palm PTT.
- NTN1663A\* Integrated Ear Microphone/Receiver System with Ring PTT.
- NTN1736A\* Integrated Ear Microphone/Receiver System with Snap-On-Side PTT.
- NNTN4186A\* Integrated Ear Microphone/Receiver System with Body PTT.

### COMMPORT REPLACEMENT PARTS

- NKN6508A Cable for NTN1722A
- NKN6510A Palm PTT Cable for NTN1625A
- NKN6512A Ring PTT Cable for NTN1624A
- NKN6525A Snap-on-Side PTT Cable for NTN1736A
- NNTN4188A Body PTT Cable for NNTN4186A
- NTN8821A CommPort Maintenance Kit. Includes 10 replacement ear tubes, 10 microphone seal strips and 2 windscreens.
- NTN8986A Adhesive Pads. For secure attachment to ear. Pack of 90.
- NTN8988A Ear Straps. For secure attachment to ear. Pack of 10.
- RLN5037A Replacement Ear Tubes. Pack of 10.
- 4285838B01 Replacement Collar Clip
- 4202006A01 Replacement Back Cover Clip
- BDN6676D 3.5mm Adapter with Quick Disconnect Latch

\*Intrinsically Safe.

RLN4922A  
Completely  
Discreet  
Earpiece  
Kit



*The Completely Discreet Earpiece is easy to use. Simply remove the earpiece from any standard 2 or 3-Wire Motorola Surveillance Kit and plug in the neckloop, which is easily hidden under clothing. Security personnel will be able to wear this tiny receiver comfortably for hours at a time!*

Completely Discreet  
Earpiece Receiver



CommPort Integrated  
Microphone/Receiver  
System



## Temple Transducer:

Representing a significant achievement in headset design and functionality, it allows the user to receive audio without covering the ear.

### Ear Microphone System – EMS

This compact, lightweight unit picks up sound through bone vibrations in the ear. The miniature earpiece leaves the hands free and face unobscured, good for rescue and emergency personnel that must retain the ability to help, hear and speak directly to others, those not on the communication system. EMS may be worn with protective masks without reduction in sound clarity. It's ideal for high-noise environments. PTT or Voice-Activated (VOX) Interface Module required, sold separately.

BDN6677A*	EMS with PTT Interface. Black. For standard noise levels (up to 95dB).
BDN6678A*	EMS with PTT Interface. Beige. For standard noise levels (up to 95dB).
BDN6641A*	EMS with PTT Interface. Grey. For high-noise levels (up to 105dB).
BDN6708B*	Push-to-Talk Only Interface Module
BDN6671B*	Push-to-Talk or Voice-Activated Interface Module VOX operational only on conventional channel.

#### OPTIONAL ACCESSORIES FOR EMS

0180358B38*	Remote Push-to-Talk Ring Switch
0180300E83*	Remote Push-to-Talk Body Switch
0180300E25	Earguard with Adjustable Loop
0180358B32	Earholder. Black, small. Secures Microphone in ear.
0180358B33	Earholder. Black, medium. Secures Microphone in ear.
0180358B34	Earholder. Black, large. Secures Microphone in ear.
0180358B35	Earholder. Clear, small. Secures Microphone in ear.
0180358B36	Earholder. Clear, medium. Secures Microphone in ear.
0180358B37	Earholder. Clear, large. Secures Microphone in ear.
4202006A01	Replacement Back Cover Clip
4285838B01	Replacement Collar Clip
4280369E44	Replacement Belt Clip with Screws
5080358B28	Eartips. Black, medium. Pack of 10.
5080358B29	Eartips. Black, large. Pack of 10.
5080358B30	Eartips. Beige, medium. Pack of 10.
5080358B31	Eartips. Beige, large. Pack of 10.

### Temple Transducer

The Temple Transducer represents a significant achievement in headset design and functionality. It allows the user to receive audio without covering the ear. The receiver portion of this accessory rests on the temples and is capable of converting the receive audio from a two-way radio into sound vibration. Sound vibration is transmitted through the surrounding tissue and bone directly into the inner ear. It features an In-line PTT and noise-cancelling boom microphone. The Temple Transducer can help enhance communication and safety by allowing external sounds, such as machinery and equipment, warning and fire alarms, the intercom, traffic and even casual conversations with co-workers. In high-noise environments it allows the use of earplugs.

RMN4049A*	Temple Transducer
RMN5048B*	Rugged Temple Transducer
0180305J46	Training CD-ROM. For EMS and Temple Transducer.

\*Intrinsically Safe.

BDN6677  
EMS with PTT or VOX  
Interface Module



RMN4049A  
Temple Transducer





# HT 1000™, JT 1000™, MTX 8000™, and MTX 9000™

## audio

### Lightweight Headsets

Lightweight headsets provide high-clarity, hands free, discreet two-way communication, while maintaining the comfort necessary for extended-wear in moderate noise environments. Requires adapter BDN6676D.

- NMN6245A\*      Single-Muff, Lightweight Headset with In-Line PTT Switch.
- NMN6246B\*      Ultra-Lightweight Headset with Boom Microphone, In-Line PTT Switch. Earbud style receiver.
- NMN1020A\*      Lightweight Headset with Boom Microphone. Can be worn with helmet or safety glasses. Includes adapter cable NKN6498A. BDN6676D sold separately.
- NKN6498A\*      Headset Adapter Cable. For NMN1020A.
- BDN6676D      3.5mm Adapter with Quick Disconnect Latch
- 5080574E02      Foam Earpads. For NMN6245A. Pack of 10.

### Receive-Only Headsets

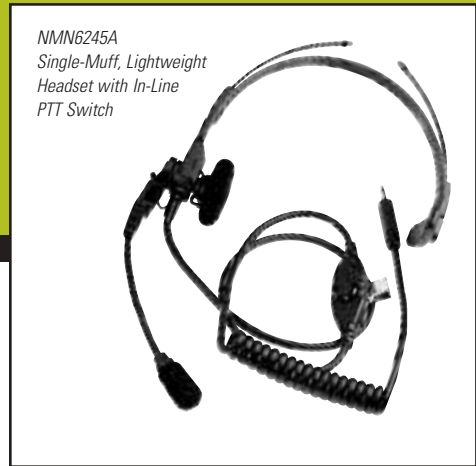
Receive-Only Headsets are the right choice for high-noise environments where users must hear information clearly, but seldom need to transmit. Dual-Muff headsets feature easily replaceable earseals filled with a liquid and foam combination to provide excellent protection from outside noise as well as comfort. These are for use with Remote and Public Safety Speaker Microphones with a 3.5mm threaded jack. They can also be plugged directly into the radio when used with BDN6676D.

- RMN4056B      Receive-Only, Dual-Muff, Headband Style Headset. For use with 3.5mm threaded jack. Plug directly into radio with BDN6676D. Noise reduction = 24dB.
- RMN4057B      Receive-Only, Dual-Muff, Hardhat Headset. Mounts easily to hardhats with slots. For use RSMs and PSMs with 3.5mm threaded jack. Plug directly into radio with BDN6676D. Noise reduction = 22dB.
- BDN6676D      3.5mm Adapter with Quick Disconnect Latch

### Medium Weight Headsets

Medium weight headsets offer high-clarity sound, with the additional hearing protection necessary to provide consistent, clear, two-way radio communication in harsh, noisy environments.

- NMN6258A\*      Medium Weight, Dual-Muff, Over-the-Head Style Headset with In-line PTT. Noise reduction = 24dB.
- NMN6259A\*      Medium Weight, Dual-Muff, Behind-the-Head Style Headset. Can be worn with hardhat. Noise reduction = 24dB.
- RMN4051B      Two-way, Hardhat Mount Headset with Noise-Cancelling Boom Microphone. Noise reduction = 22dB.
- BDN6673A      In-Line PTT Adapter Cable for RMN4051B



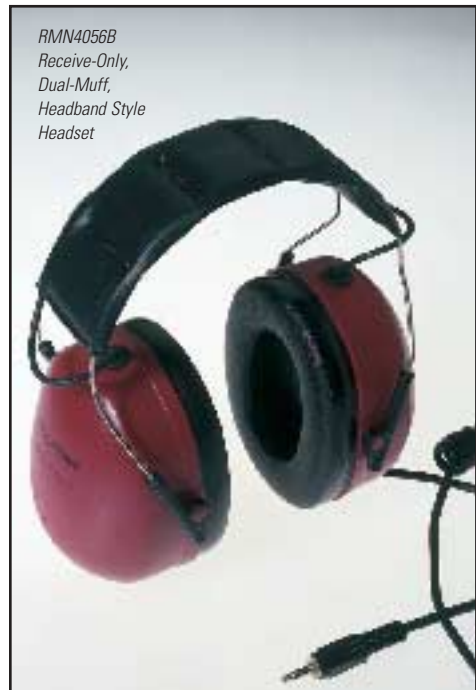
NMN6245A  
Single-Muff, Lightweight  
Headset with In-Line  
PTT Switch



NMN6246B  
Ultra-Lightweight  
Headset with Boom  
Microphone, In-Line PTT  
Switch



BDN6676D  
3.5mm  
Audio Adapter with  
Quick Disconnect Latch



RMN4056B  
Receive-Only,  
Dual-Muff,  
Headband Style  
Headset

\*Intrinsically Safe.

## Medium Weight Headsets:

Offer high-clarity sound, with the additional hearing protection necessary to provide consistent, clear communication in harsh, noisy environments.

### Tactical Medium Weight Headsets

Ideal for two-way communication in extremely noise environments. Dual-Muff, tactical headsets have 2 microphones on the outside of the earcups which reproduce ambient sound back into headset. Harmful sounds are suppressed to safe levels and low sounds are amplified up to 5 times original level, but never more than 82dB. Has on/off volume control on earcups. Easily replaceable ear seals are filled with a liquid and foam combination to provide excellent sealing and comfort. 3-foot coiled cord assembly included. Adapter Cable BDN6673A required.

- RMN4052B Tactical Headband Style Headset. Grey, Noise Reduction = 24dB.
- RMN4053B Tactical Hardhat Mount Headset. Grey, Noise Reduction = 22dB. Hardhat not included.
- RKN4095A Adapter Cable with In-Line Push-to-Talk  
For use with RMN4051B, RMN4052B, and RMN4053B.

### Racing Headset

This heavy-duty headset can be worn with most hardhats. It's ideal for high-noise environments, racing teams like CART® use it in the pits for dependable communication. Adapter required.

- RMN5015A Racing Headset
- BDN6673B Adapter Cable for RMN5015A

### Heavy-Duty Headsets

Heavy-duty headsets include noise-cancelling boom microphones and can be worn with or without a hardhat. The Push-to-Talk switch is located on the earcup. On voice-activated models, the VOX module is contained within the headset. Heavy-duty headsets require radio adapter cable BDN6673A, sold separately.

- BDN6645B\* Push-to-Talk Headset with Boom Microphone  
Requires adapter cable BDN6673A.  
Noise reduction = 24dB.
- BDN6635C\* Voice-Activated (VOX) Headset with Boom Microphone  
Requires adapter cable BDN6673A.  
Noise reduction = 24dB.
- BDN6636C\* Voice-Activated (VOX) Headset with Throat Microphone  
Requires adapter cable BDN6673A. Noise reduction = 24dB.
- BDN6673A\* Radio Adapter Cable

\*Intrinsically Safe.





# HT 1000™, JT 1000™, MTX 8000™, and MTX 9000™

## carry accessories

### Universal Chest Pack

Motorola Original® Universal Chest Pack protects the radio and provides the freedom from holding it during standby communication mode. Universal Chest Pack fits virtually any radio.

HLN6602A	Universal Chest Pack with Radio Holder, Pen Holder and Velcro Secured Pouch
1505596Z02	Replacement Strap for HLN6602A

### Break-A-Way Chest Pack

All the features of the original Universal Chest Pack (HLN6602A) plus break-a-way tabs that allow the entire pack to be pulled off with approximately 10 lbs. of pressure.

RLN4570A	Break-a-Way Chest Pack with Radio Holder, Pen Holder and Velcro Secured Pouch.
1505596Z02	Replacement Strap for RLN4570A

### RadioPAK™

The RadioPAK is lightweight and comfortable. Worn around the waist, it keeps radios/phones at hand. It features a separate 6 x 8 inch zippered pouch for other on-the-job necessities. Adjustable woven nylon belt fits both men and women.

RLN4815A	RadioPAK Radio/Utility Case
4280384F89	RadioPAK Extension Belt For waists larger than 40 inches.



*Unlike rigid holders,  
the universal-fit RadioPAK  
is lightweight and comfortable.  
An ideal companion for  
two-way radios, as well as  
iDEN® portables  
and cellular phones.*

## Carry Accessories:

You'd be surprised how much time can be saved when a radio is always in the same place — made easy by this versatile selection of Motorola Original® carry accessories.

### Carrying Cases and Accessories

The carrying cases are available in sizes designed to fit radios with a battery and permit audio to be heard clearly.

	STANDARD BELT LOOP CASES
NTN7238A	Leather Case with Belt Loop, D-rings and T-strap For use with high-capacity battery.
NTN7239A	Leather Case with Belt Loop, D-rings and T-strap For use with ultra-high capacity battery.
NDN4018B	Leather DTMF Case with Belt Loop, D-rings and Antenna Strap For use with high and ultra-high capacity batteries.
NTN7247A	Nylon Case with Belt Loop and Strap For use with high and ultra-high capacity batteries.

	HIGH-ACTIVITY SWIVEL CASES
NTN8035B	Leather Case with 2.5 Inch High-Activity Swivel Belt Loop, D-rings and T-strap.
NTN8037B	Leather Case with 3 Inch High-Activity Swivel Belt Loop, D-rings and T-strap.
NTN8036B	Leather Case with 2.5 Inch High-Activity Swivel Belt Loop, D-rings and T-strap.
NTN8038B	Leather Case with 3 Inch High-Activity Swivel Belt Loop, D-rings and T-strap.
NDN4017B	Leather DTMF Case with 3 Inch High-Activity Swivel Belt Loop, D-rings and T-strap.

	STRAPS
NTN7782A	T-Strap for Leather Carry Cases
NTN7376A	T-Strap for Nylon Carry Cases
NTN5243A	Adjustable, Black Nylon Shoulder Strap Attaches to D-ring on case.

	HIGH-ACTIVITY BELT LOOPS & BUTTONS
NTN8039B	2.5 Inch High-Activity Swivel Belt Loop
NTN8040B	3 Inch High-Activity Swivel Belt Loop
NTN1534A	High-Activity D-Button with 2.5 Inch High-Activity Swivel Belt Loop. For use with NTN8039B.
NTN1535A	High-Activity D-Button with 3 Inch High-Activity Swivel Belt Loop. For use with NTN8040B.
NTN8063A	High-Activity D-Button

	BELT CLIPS & BELT
4205638V09	2.5 Inch Contoured Spring Action Belt Clip
4205638V07	3 Inch Contoured Spring Action Belt Clip
4200865599	1.75 Inch Wide Black Belt

	RADIO HANGERS
TDN9327A	Portable Radio Hanger. For door panels up to 2.75 inches.
TDN9373A	Portable Radio Hanger. For door panels up to 2.75 to 3.25 inches.

	WATERPROOF BAG
HLN9985B	Waterproof Bag. Includes large carrying strap.

NTN7247A  
Nylon Case with Belt Loop and Strap



NTN8036B  
Leather Case with 2.5 Inch High-Activity Swivel Belt Loop



NTN8038B  
Leather Case with 3 Inch High-Activity Swivel Belt Loop



NTN5243A  
Adjustable, Black Nylon Shoulder Strap



NTN8039B and NTN8040B  
To remove case from belt, rotate case 180° and slide up and out of holder.



# HT 1000™, JT 1000™, MTX 8000™, and MTX 9000™

## chargers

### Single Unit, Compact, Rapid-Rate Chargers

These chargers have the power supply built into the line cord giving the user a smaller base unit for easier storage. It also utilizes an enhanced charging algorithm that will help maximize the life of your batteries. It will rapid rate charge both NiCd and NiMH batteries.

- RPX4747A Compact, Rapid-Rate Charger, 120V - US
- RPX4748A Compact, Rapid-Rate Charger, 230V - Euro
- RPX4749B Compact, Rapid-Rate Charger, 230V - UK

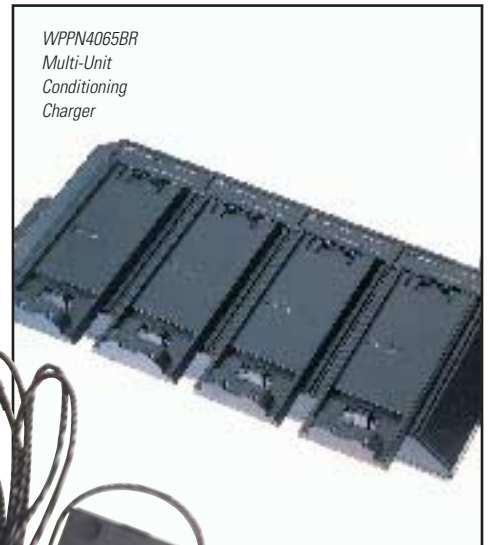
### Motorola Conditioning Chargers – MCC

The MCC features Instant Fault Detection technology that detects faulty batteries in seconds. You'll know right away when a battery won't operate at peak performance - saving you time and trouble. Each unit rapidly charges NiCd and NiMH batteries and optimizes battery performance. It's patented negative pulse charging process minimizes overheating and overcharging, extending useful battery life. Batteries can be left on the charger for extended periods of time, without worry of heat build-up. Optional accessories are available that allow the MCC to be used in both AC and DC environments.

- WPLN4090BR Charger Kit, 120 Volt AC.  
Includes both Base Charger Unit and 7 Volt Adapter Plate.
- WPLN4091BR Charger Kit, 220 Volt AC.  
Includes both Base Charger Unit and 7 Volt Adapter Plate.
- WPPN4002BR Base Unit Conditioning Charger, 120 Volt.  
Adapter Plate sold separately.
- WPPN4006AR Base Unit Conditioning Charger, 220 Volt.  
Adapter Plate sold separately.
- WPPN4065BR Multi-Unit Conditioning Charger,  
4-Station Base, 120 Volt.  
Adapter Plate sold separately.
- WPPN4004BR 7 Volt Adapter Plate

#### MCC ACCESSORIES

- 3080384G15 Vehicular Power Adapter
- RLN4814A Vehicular Mounting Bracket and Hard Wire Cable  
For Single-Unit Motorola Conditioning Chargers.  
Includes DC Hard Wire Cable 3080384M21.
- 3080384M21 DC Hard Wire Cable. For vehicular installation.



WPPN4065BR  
Multi-Unit  
Conditioning  
Charger



RLN4814A  
Vehicular Mounting  
Bracket and  
Hard Wire  
Cable

# IMPRES™ Smart Energy System:

The IMPRES™ Smart Energy System automatically reconditions IMPRES™ batteries based on actual usage.

## IMPRES™ Smart Energy Systems

### IMPRES™ Chargers

Through the use of its advanced charging algorithm and automatic reconditioning features, the IMPRES™ Smart Energy System ensures maximum talk-time and optimized battery cycle life. This smart energy system automatically reconditions IMPRES™ batteries based on actual usage, keeping them in peak condition. Talk-time and cycle life are optimized and the need for manual maintenance programs is eliminated. Its advanced conditioning features allow batteries to be safely left on the charger for extended periods of time without incurring damaging heat build-up which can decrease battery cycle life. In addition, batteries left in the charger are kept fully charged so they are always ready when needed. This rapid-rate, tri-chemistry charging system will also charge compatible non-IMPRES™ batteries and supports multiple radio platforms including SABER, XTS and HT 1000 Series portables.

#### IMPRES™ SINGLE-UNIT CHARGERS

WPLN4111AR IMPRES™ Single-Unit Charger, 120V - US  
 WPLN4112AR IMPRES™ Single-Unit Charger, 220V - Euro  
 WPLN4113AR IMPRES™ Single-Unit Charger, 240V - UK

#### IMPRES™ MULTI-UNIT CHARGERS

WPLN4108BR IMPRES™ Multi-Unit Charger, 120V - US  
 WPLN4109BR IMPRES™ Multi-Unit Charger, 220V - Euro  
 WPLN4110BR IMPRES™ Multi-Unit Charger, 240V - UK  
 NLN7967A Wall Mount for Multi-Unit Chargers

### IMPRES™ Multi-Unit Chargers with Display Modules

Charger Display Modules provide powerful, "real time" analyzing information for IMPRES™ batteries, including current charge status, battery mAh, and voltage. Readout displays battery kit number, serial number and chemistry and the time remaining to complete the charge for NiCd and NiMH batteries.

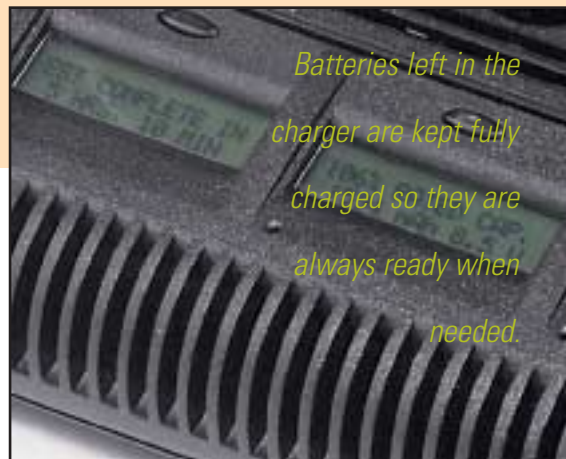
WPLN4130A IMPRES™ Multi-Unit Charger with Display Modules, 120V - US  
 WPLN4131AR IMPRES™ Multi-Unit Charger with Display Modules, 220V - Euro  
 NLN7967A Wall Mount for Multi-Unit Charger

### IMPRES™ Individual Charger Display Module

Compatible with the standard IMPRES™ Multi-Unit Chargers WPLN4108BR, WPLN4109BR and WPLN4110BR. Up to 6 modules can be used per charger, one for each charging pocket. Includes detailed installation instructions.

RLN5382A Charger Display Module for IMPRES™ Multi-Unit Charger Version 1.3 or Later.

Note: Display Modules compatible with Multi-Unit Charger version 1.2 or earlier require a software flash update. Version number is located on label on the bottom of the IMPRES™ Multi-Unit charger. If no version is shown, it is earlier than version 1.2. Version 1.2 will appear as V1.20, 1.3 will appear as V1.30, etc.



Batteries left in the charger are kept fully charged so they are always ready when needed.



WPLN4187A  
IMPRES™  
Multi-Unit Charger

WPLN4111AR  
IMPRES™  
Single-Unit Charger



RLN5382A  
Charger Display Modules for  
IMPRES™ Multi-Unit Chargers



# HT 1000™, JT 1000™, MTX 8000™, and MTX 9000™

## battery analyzers



WPLN4079BR  
6-Station Battery Maintenance  
System<sup>PLUS</sup>



NDN4005B  
3-Station Battery  
Maintenance  
System<sup>PLUS</sup>

### Battery Maintenance System<sup>PLUS</sup> – BMS<sup>PLUS</sup>

Increase the useful life of your batteries. Using interchangeable battery adapters (sold separately), the BMS<sup>PLUS</sup> is capable of charging and discharging, analyzing, conditioning and cycle testing batteries. It supports NiCd, NiMH and Li-ion batteries (Li-ion 6-station units only) and tracks better voltage and capacity (mAh). Its easy-to-use design supports hundreds of two-way, cellular and camcorder batteries. The BMS<sup>PLUS</sup> has a 3-year warranty and includes serial printer\* port (RS-232).

- |            |  |
|------------|--|
| WPLN4079BR | 6-Station BMS <sup>PLUS</sup> , 120V, AC, 50/60 Hz - US Plug   |
| WPLN4080BR | 6-Station BMS <sup>PLUS</sup> , 230V, AC, 50/60 Hz - Euro Plug   |
| WPPN4085AR | BMS <sup>PLUS</sup> Li-ion Field Upgrade Kit. Upgrades WPLN4079AR, WPLN4080AR, WPLN4081AR. Allows units to support Li-ion batteries. |
| NDN4005B   | 3-Station BMS <sup>PLUS</sup> , 120V, AC, 50/60 Hz.<br>Does not support Li-ion or 3-cell batteries.                                  |
| NDN4006B   | 3-Station BMS <sup>PLUS</sup> , 230V, AC, 50/60 Hz.<br>Does not support Li-ion or 3-cell batteries.                                  |

### BMS<sup>PLUS</sup> ADAPTERS

- |          |  |
|----------|--|
| TDN9435C | Adapter. For NiCd batteries only.      |
| CDN6364A | Adapter. For NiCd, and NiMH batteries. |

\*Compatible with the STAR Micronics SP200 Series printers (and other printers with STAR emulation); available from STAR Micronics distributors.

## **Battery Optimizing System II:**

*Regular use of the BOS II can optimize battery performance and help extend battery life, helping reduce battery replacement costs.*



### **Battery Optimizing System II – BOS II**

No other battery analyzer matches the speed, accuracy, versatility and ease-of-use of the BOS II in providing powerful analyzing capabilities. Users can select from 12 pre-programmed service programs making it quick and easy to get up and running. Because the BOS II is programmable, users can create custom programs to perform a wide variety of tasks specific to individual needs. New enhancements include new navigation keys and an improved, more intuitive menu system. Regular use of the BOS II can optimize battery performance and help extend battery life, helping reduce battery replacement costs.

- Support for NiCd, NiMH, Li-ion, and SLA batteries 100W Power Supply programmable from 100 mAh to 4 Amps per station
- Interchangeable Adapters accommodate all major brands
- Includes a variety of User Programs and allows customizable programming
- Proprietary Recondition Cycle restores NiCd and NiMH batteries
- Increased processing power and testing resolution – including a Three-minute Quicktest™ that measures the batteries' State of Health (SoH) Printer Output for reports and labels
- Three-year Warranty

WPLN4124AR BOS II, 4-Station, 90-264V, AC - US Plug  
Adapter Plates Required.

WPLN4125AR BOS II, 4-Station, 90-264V, AC - Euro/UK Plug  
Adapter Plates Required.

RL-72403 **BOS ADAPTER PLATE**  
Standard Adapter





# HT 1000™, JT 1000™, MTX 8000™, and MTX 9000™

## vehicular chargers

*Don't get caught without a  
charged, spare battery.  
It's amazing how much  
time is lost when  
you aren't fully  
prepared.*



### Vehicular Travel Charger

A great traveling companion for constant communication while on the road. Its small compact design allows the radio to be used while rapid charging in the charger base. Unit includes a voltage regulated vehicular charger adapter, custom charger base, mounting bracket and coil cord.

- RLN4884B Vehicular Travel Charger  
Includes Mounting Bracket.
- RLN5914A Travel Charger Mounting Bracket Kit  
Includes screws and nylon cord.

### TRANSFORMERS

- 2580600E05 Transformer, 120V - US
- 2580600E06 Transformer, 230V - Euro
- 2580600E07 Transformer, 230V - UK
- 2580600E08 Transformer, 230V - Argentina

### Vehicular Charger

This 12 Volt DC charger is ideal for mobile use. It charges portable radio NiCd batteries in rapid-rate charge mode (less than 3 hours) until full charge is obtained and then switches to trickle charge mode. A micro-processor controls the charge rate. This durable unit comes with a metal mounting bracket and is PAC\_RT compatible.

- TDN9816A Vehicular Charger



## Motorola Original® Batteries:

Motorola batteries are ruggedly designed for lasting durability and are system tested with Motorola two-way radios to ensure optimum performance.



## batteries

### IMPRES™ Batteries

IMPRES™ batteries, when used with an IMPRES™ charger, provide automatic, adaptive reconditioning, end-of-life display and other advanced features. Data is stored in the battery and communicated to the charger via a unique IMPRES™ communication protocol which is designed to maximize talk-time and optimize battery cycle life – all automatically.

#### IMPRES™ NICKEL CADMIUM - NiCd

HNN9028AR	1550 mAh, 7.5V
HNN9029AR	1550 mAh, 7.5V, Intrinsically Safe

### Motorola Original® Batteries

Motorola Original® Batteries offer various chemistry and capacity alternatives, allowing the user to select the ideal battery for his or her needs. NiCd is best suited for extreme-temperature operation, and provides the maximum number of charge/discharge cycles. NiMH batteries offer extended duty cycles – providing more talk-time per shift.

#### PREMIUM NICKEL CADMIUM - NiCd

NTN7143CR	1200 mAh, 7.5V
NTN7150AR	1200 mAh, 7.5V, Intrinsically Safe (OSHA)
NTN7372AR	1200 mAh, 7.5V, Intrinsically Safe
NTN7147AR	1300 mAh, 7.5V, Intrinsically Safe
NTN7149BR	1300 mAh, 7.5V, Intrinsically Safe (CSA)
NTN7341AR	1400 mAh, 7.5V, Intrinsically Safe
NTN7144CR	1400 mAh, 7.5V

#### PREMIUM NICKEL METAL HYDRIDE - NiMH

WPNN4013A	2000 mAh, 7.5V
WPNN4037A	1900 mAh, 7.5V, Intrinsically Safe

### Option Board

NTN8313A	Analog Voice Scrambler Advantage Board. For use with HT 1000 only. NOT APPROVED for installation in FM approved models.
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## antennas

### Flexible Whip Antennas

Flexible Whip Antennas have a one-piece finish, steel core, and spiral wound conductor for optimal radiation characteristics.

8505241U05	Flexible Whip, 1/4 Wave, 380-520 MHz, 6 Inch
8505241U03	Flexible Whip, 1/2 Wave, 806-869 MHz, 7 Inch
8505241U04	Flexible Whip, 1/2 Wave, 896-941 MHz, 7 Inch

### Helical Antennas

Helical antennas are sturdy and dependable. The skirt at the base of the connector helps seal out damaging elements. The connector is made of plated brass material for long life.

8505644V01	Helical, 136-151 MHz, 7.5 Inch
8505644V02	Helical, 151-162 MHz, 6.5 Inch
8505644V03	Helical, 162-174 MHz, 6.5 Inch
8505644V04	Helical, 403-435 MHz, 3.5 Inch
8505644V05	Helical, 435-470 MHz, 3 Inch
8505644V06	Helical, 470-512 MHz, 3 Inch

### Stubby Antennas

Stubby Antennas are ideal when radio is worn on the belt because the short antenna is non-obtrusive.

8505241U06	Stubby, 1/4 Wave, 806-941 MHz, 4 Inch
RAD4194A	Stubby, 150-162 MHz, 3.55 Inch

### Dipole Antennas

Dipole molded antennas are injection molded in lasting polyurethane. The wide skirt at the bottom of the connector protects against damaging environmental elements. The dipole antenna is ideal when strong and solid signal clarity is demanded.

NAF5039A	Dipole, 806-869 MHz, 8 Inch
8505884R02	Dipole, 896-941 MHz, 8 Inch

### Wideband Antennas

This Wideband antenna is ideal when radio is used in different frequencies since one antenna will cover all ranges.

8505518V01	Wideband, 136-174 MHz, 8 Inch
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## **Hospitality**

*Whether in pursuit of a guest request or investigating housekeeping productivity, communication with a Remote Speaker Microphone lets professionals respond instantly without need to reach for the radio controls.*

## **Retail**

*It takes two hands for ringing sales and managing stock, and solutions like our headsets provide both welcome freedom and valued protection in the heat of the action.*

## **Business**

*Business class professionals deserve first-class equipment for communicating, and our Lightweight Headsets help everyone quickly and clearly get the message.*

## **Security**

*From crowd control to answering an alarm signaling illegal entry, a fully accessorized mobile radio helps professionals respond more quickly.*

*Compact and capable,  
VISAR® portable radios  
continue to help professionals  
stay in contact.*

### **VISAR RADIOS**

The discontinued VISAR is still one of the smallest full power, fully featured two-way radios around. It will fit comfortably into the palm of your hand or in your pocket, with the same output power as a radio twice its size. You have the immediate communication of a paging system with the instant response of a two-way radio.





VISAR®

audio

NMN6196A  
Remote Speaker  
Microphone



**Remote Speaker Microphone**

The Remote Speaker Microphone is a water-resistant compact unit that allows talking and listening without removing the radio from the belt or case. It has a coiled cord, and Push-to-Talk switch. Clothing clip on microphone back clips securely onto shirt or collar.

NMN6196A\* Remote Speaker Microphone

**Epaulet Strap**

Black leather Epaulet Strap secures Remote Speaker Microphone to epaulet on shirt or jacket and accommodates back clip in leather cut-outs. Snap closure secures cord to allow reliable communications in hostile environments.

RLN4294A Epaulet Strap, Velcro  
RLN4295A Epaulet Strap, with Clip

**MicJackets**

MicJackets provide speaker microphone users with a way to further protect the "head" of their microphone from dust, dirt, metal particles, sweat, body oils and other on-the-job grime. MicJackets also help make handling and interacting with the speaker microphone more hygienic.

RLN4903A MicJacket – RSM  
Fits NMN6196A.

**Clear Comfortable Earpieces**

These earpieces form to the inside of the ear and are perfect for low-noise environments. Made of easy-to-clean, chemically-inert, hypo-allergenic material. Compatible with Noise and Surveillance Kits.

RLN4760A Small Custom Earpiece - Right Ear  
RLN4761A Medium Custom Earpiece - Right Ear  
RLN4762A Large Custom Earpiece - Right Ear  
RLN4763A Small Custom Earpiece - Left Ear  
RLN4764A Medium Custom Earpiece - Left Ear  
RLN4765A Large Custom Earpiece - Left Ear

*MicJackets*

*provide a way to further protect the "head" of the microphone from dust, dirt, metal/particles, sweat, body oils and other on-the-job grime.*



From left to right,  
top to bottom:

RLN4765A  
RLN4762A  
RLN4764A  
RLN4761A  
RLN4763A  
RLN4760A

\*Intrinsically Safe.

# Surveillance Kits:

Surveillance accessories allow users to receive messages through the earpiece and are ideal in environments that require discreet communication.

## Surveillance Kits

Surveillance accessories allow the radio user to privately receive messages with the earpiece and are ideal when environments require discreet communication. These surveillance accessories require the 3.5mm threaded audio adapter PMLN4455B, unless being used with a speaker microphone.

### 1-WIRE SURVEILLANCE KITS

- BDN6664A\* Receive-Only Earpiece with Standard Earphone (1-Wire). Beige.
- BDN6665A\*† Extra Loud Receive-Only Earpiece with Standard Earphone (1-Wire). Beige.
- BDN6726A\* Receive-Only Earpiece with Standard Earphone (1-Wire). Black
- BDN6727A\*† Extra Loud Receive-Only Earpiece with Standard Earphone (1-Wire). Black
- BDN6666A\* Receive-Only Earpiece with Volume Control and Earloop (1-Wire). Beige.
- BDN6728A\* Receive-Only Earpiece with Volume Control and Earloop (1-Wire). Black.

### 2-WIRE SURVEILLANCE KITS

- BDN6667A\* Earpiece with Microphone and PTT Combined (2-Wire). Beige.
- BDN6669A\*† Extra Loud Earpiece with Microphone and PTT Combined (2-Wire). Beige.
- BDN6729A\* Earpiece with Microphone and PTT Combined (2-Wire). Black.
- BDN6731A\*† Extra Loud Earpiece with Microphone and PTT Combined (2-Wire). Black.

### 3-WIRE SURVEILLANCE KITS

- BDN6668A\* Earpiece with Microphone and Push-to-Talk Separate (3-Wire). Beige.
- BDN6670A\*† Extra Loud Earpiece with Microphone and Push-to-Talk Separate (3-Wire). Beige.
- BDN6730A\* Earpiece with Microphone and Push-to-Talk Separate (3-Wire). Black
- BDN6732A\*† Extra Loud Earpiece with Microphone and Push-to-Talk Separate (3-Wire). Black

## Quick Disconnect Noise Kits

Extreme Noise Kits provide extra comfort and/or noise protection for users wearing surveillance accessories. Lightweight, translucent tube attaches to Motorola surveillance accessories to provide flexibility and comfort, which now includes a new quick disconnect adapter. The Quick Disconnect Adapter allows users, especially those in multiple shift operations, to easily remove or alternate acoustic tubes. Clothing clip prevents accessory from being pulled from the ear due to body movement or head rotation. For optimal performance, Extra Loud Earphones are recommended.

- RLN6230A Extreme Noise Kit. Includes 2 foam earplugs. For high-noise environments. Noise reduction = 24dB. Can be used with Clear Comfortable Earpieces. Black.
- RLN6231A Extreme Noise Kit. Includes 2 foam earplugs. For high-noise environments. Noise reduction = 24dB. Can be used with Clear Comfortable Earpieces. Beige.
- RLN6232A Low Noise Kit - Clear Acoustic Tube Assembly. Includes 1 clear rubber eartip. For low-noise environments, does not provide hearing protection. Black.
- RLN6241A Low Noise Kit - Clear Acoustic Tube Assembly. Includes 1 clear rubber eartip. For low-noise environments, does not provide hearing protection. Beige.
- 5080369E39† Extra Loud Earphone. Beige.
- 5080370E91† Extra Loud Earphone. Black.

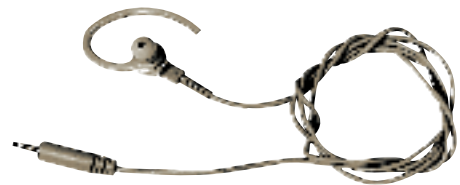
### REPLACEMENT ACCESSORIES

- RLN6242A Quick Disconnect Acoustic Tube Replacement
- 5080384F72 Replacement Foam Plugs. Pack of 50. Noise reduction = 24dB. For RLN6230A and RLN6231A.
- 5080370E97 Replacement Standard Clear Rubber Eartips. Pack of 25. For RLN6232A and RLN6241A.

\*Intrinsically Safe.

† Extra loud earphone (exceeds OSHA limits).

BDN6664A  
Receive-Only Earpiece with  
Standard Earphone



BDN6667A  
Earpiece with Microphone and  
PTT Combined



RLN6230A  
Extreme  
Noise Kit



RLN6241A  
Low Noise Kit





**VISAR®**

**audio**



RLN4922A  
Completely  
Discreet  
Earpiece  
Kit

**Completely Discreet Earpiece**

Enables users to communicate with ease, in full privacy, without visible equipment. This miniaturized receiver is discreetly hidden in the ear, where it can be worn comfortably for long periods of time. Small as it is, it offers a full range of audio functions including automatic squelch, automatic gain control and noise filtering. Average battery life is approximately 100 hours and includes an end-of-life warning signal when the battery needs to be changed. Kit includes wireless receiver, inductive neckloop, 6 spare batteries and 5 spare earguards. For use with any standard 2 or 3-Wire Motorola Surveillance Kit.

- RLN4922A Completely Discreet Earpiece Kit
- RLN4919A Replacement Earguards. 5 per pack.
- RNN4055A Replacement 1.4 Volt Batteries. 6 per pack.

**Flexible Ear Receiver**

This receive-only earpiece contains a flexible earloop and speaker which rests external to the ear. It plugs directly into adapter or the earjack on speaker microphones.

- BDN6719A Flexible Ear Receiver
- 7580372E11 Replacement Foam Ear Cushion

BDN6719A  
Flexible Ear  
Receiver



*The Completely Discreet Earpiece is easy to use. Simply remove the earpiece from any standard 2 or 3-Wire Motorola Surveillance Kit and plug in the neckloop, which is easily hidden under clothing. Security personnel will be able to wear this tiny receiver comfortably for hours at a time!*



Completely Discreet  
Earpiece Receiver

## **Temple Transducer:**

*Representing a significant achievement in headset design and functionality, it allows the user to receive audio without covering the ear.*



BDN6768A  
EMS with PTT or VOX  
Interface Module



### **Ear Microphone System – EMS**

This compact, lightweight unit picks up sound through bone vibrations in the ear. The miniature earpiece leaves the hands free and face unobscured, good for rescue and emergency personnel that must retain the ability to help, hear and speak directly to others, those not on the communication system. EMS may be worn with protective masks without reduction in sound clarity. It's ideal for high-noise environments. PTT or Voice-Activated (VOX) Interface Module required, sold separately.

BDN6768A*	EMS with PTT Interface. Black. For standard noise levels (up to 95dB).
BDN6769A*	EMS with PTT Interface. Beige. For standard noise levels (up to 95dB).
BDN6770A*	EMS with PTT Interface. Grey. For high-noise levels (up to 105dB).
BDN6779A*	Push-to-Talk or Voice-Activated Interface Module. VOX operational only on conventional channel.

### **OPTIONAL ACCESSORIES FOR EMS**

0180358B38*	Remote Push-to-Talk Ring Switch
0180300E83*	Remote Push-to-Talk Body Switch
0180300E25	Earguard with Adjustable Loop
0180358B32	Earholder. Black, small. Secures Microphone in ear.
0180358B33	Earholder. Black, medium. Secures Microphone in ear.
0180358B34	Earholder. Black, large. Secures Microphone in ear.
0180358B35	Earholder. Clear, small. Secures Microphone in ear.
0180358B36	Earholder. Clear, medium. Secures Microphone in ear.
0180358B37	Earholder. Clear, large. Secures Microphone in ear.
4202006A01	Replacement Back Cover Clip
4285838B01	Replacement Collar Clip
4280369E44	Replacement Belt Clip with Screws
5080358B28	Eartips. Black, medium. Pack of 10.
5080358B29	Eartips. Black, large. Pack of 10.
5080358B30	Eartips. Beige, medium. Pack of 10.
5080358B31	Eartips. Beige, large. Pack of 10.
0180305J46	Training CD-ROM For Ems and Temple Transducer

\*Intrinsically Safe.



## audio

### Pellet-Style Earpieces

Pellet-style earpieces allow users to receive communication discreetly and are comfortable for extended-wear use.

- BDN6780A Earbud with Microphone and Push-to-Talk
- BDN6781A Receive-Only Earbud
- 7580372E70 Replacement Foam Cushion for Pellet Earpieces

### Lightweight Headsets

These headsets provide high-clarity, hands free, discreet communication, while maintaining the comfort necessary for extended-wear in moderate noise environments. No adapter required.

- NMN6245A\* Single-Speaker Lightweight Headset with Boom Microphone and In-Line PTT Switch.
- NMN6246B Ultra-Lightweight Headset with Boom Microphone, In-Line PTT Switch. Earbud style receiver.
- REX4648A Replacement Foam Earpad and Windscreen Kit for NMN6245A

### Receive-Only Headsets

Receive-Only Headsets are the right choice for high-noise environments where users must hear information clearly, but seldom need to transmit. Dual-Muff headsets feature easily replaceable earseals filled with a liquid and foam combination to provide excellent protection from outside noise as well as comfort. These are for use with Remote and Public Safety Speaker Microphones with a 3.5mm threaded jack. They can also be plugged directly into the radio when used with 3.5mm adapter BDN6676D.

- RMN4056B Receive-Only, Dual-Muff, Headband Style Headset  
For use with 3.5mm threaded jack. Can be plugged directly into radio with adapter BDN6676D.  
Noise reduction = 24dB.
- RMN4057B Receive-Only, Dual-Muff, Hardhat Headset.  
Mounts easily to hardhats with slots. For use with RSMs and PSMs with 3.5mm threaded jack. Can be plugged directly into radio with adapter BDN6676D.
- BDN6676D 3.5mm Adapter with Quick Disconnect Latch

### Heavy-Duty Headsets

Heavy-duty headsets include noise-cancelling boom microphones and can be worn with or without a hardhat. The Push-to-Talk switch is located on the earcup. On voice-activated models, the VOX module is contained within the headset. Radio adapter cable BDN6772B required.

- BDN6645A\* Push-to-Talk Headset with Boom Microphone  
Requires adapter cable BDN6772B.  
Noise reduction = 24dB.
- BDN6635C\* Voice-Activated (VOX) Headset with Boom Microphone  
Requires adapter cable BDN6772B.  
Noise reduction = 24dB.
- BDN6636C\* Voice-Activated (VOX) Headset with Throat Microphone  
Requires adapter cable BDN6772B.  
Noise reduction = 24dB.
- BDN6772B\* Radio Adapter Cable

\*Intrinsically Safe.

BDN6780A  
Earbud with Microphone  
and Push-to-Talk



NMN6245A  
Lightweight Headset  
with In-Line  
PTT Switch



NMN6246B  
Ultra-Light Headset with  
Boom Microphone



BDN6645B  
Push-to-Talk  
Headset  
with Boom  
Microphone



# Motorola Original® Batteries:

Motorola batteries are ruggedly designed for lasting durability and are system tested with Motorola two-way radios to ensure optimum performance.

Selecting the proper antenna for the range and area you will be transmitting from is crucial to the message getting through clearly.



## batteries

### Motorola Original® Batteries

Motorola Original® Batteries are ruggedly designed for lasting durability and are system tested with Motorola two-way radios to ensure optimum performance. We offer various chemistry and capacity alternatives, allowing the user to select the ideal battery for his or her needs. NiCd is best suited for extreme-temperature operation, and provides the maximum number of charge/discharge cycles. Li-ion batteries offer extended duty cycles – providing more talk-time per shift.

**PREMIUM NICKEL CADMIUM - NiCd**  
 NTN7395BR NiCd, 1200 mAh, 7.5V  
 NTN7398BR NiCd, 1200 mAh, 7.5V, Intrinsically Safe

**PREMIUM NICKEL METAL HYDRIDE - NiMH**  
 NTN7394CR NiMH, 1300 mAh, 7.5V  
 NTN7396BR NiMH, 600 mAh, 7.5V  
 NTN7397CR NiMH, 1300 mAh, 7.5V, Intrinsically Safe



## antennas

### Stubby Antennas

Stubby antennas are ideal when the radio is worn on the belt because they are short and non-obtrusive. These rugged, helical antennas feature a capless sheath that allows for maximum flexibility.

8505241U06 Stubby, 1/4 Wave Broadband, 806-941 MHz  
 Operates in the 800/900 MHz band.

### Flexible Whip Antennas

These Antennas have a one-piece finish, steel core, and spiral wound conductor for optimal radiation characteristics.

8505241U05 1/4 Wave Flexible Whip, 380-520 MHz, 6 Inch  
 8505241U03 1/2 Wave Flexible Whip, 806-869 MHz, 7 Inch

### Helical Antennas

Helical antennas are sturdy and dependable. Each antenna is designed and built to quality standards. The skirt at the base of the connector helps to seal out damaging elements. The connector is made of plated brass material for long life.

8505834W01 Helical, 136-151 MHz, 6 Inch  
 8505834W02 Helical, 151-162 MHz, 5 Inch  
 8505834W03 Helical, 162-174 MHz, 5 Inch  
 8505644V04 Helical, 403-435 MHz, 3.5 Inch  
 8505644V05 Helical, 435-470 MHz, 3 Inch  
 8505644V06 Helical, 470-512 MHz, 3 Inch



**VISAR®**

## *carry accessories*

### **Universal Chest Pack**

Motorola Original® Universal Chest Pack protects the radio and provides the freedom from holding it during standby communication mode. Universal Chest Pack fits virtually any radio.

HLN6602A	Universal Chest Pack with Radio Holder, Pen Holder and Velcro Secured Pouch
1505596Z02	Replacement Strap for HLN6602A

### **Break-A-Way Chest Pack**

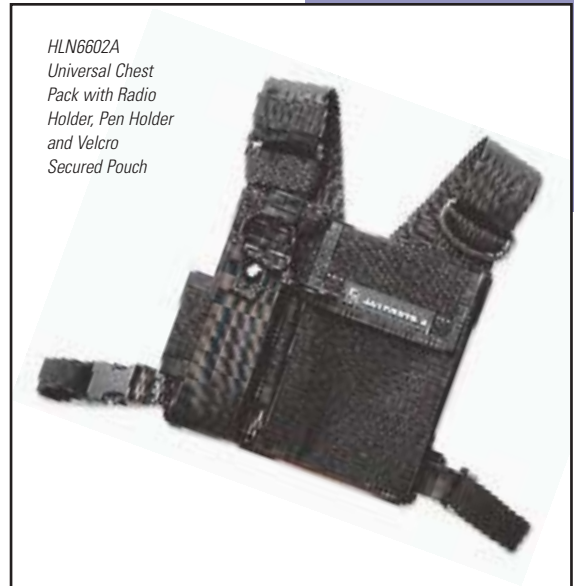
All the features of the original Universal Chest Pack (HLN6602A) plus break-a-way tabs that allow the entire pack to be pulled off with approximately 10 lbs. of pressure.

RLN4570A	Break-a-Way Chest Pack with Radio Holder, Pen Holder and Velcro Secured Pouch.
1505596Z02	Replacement Strap for RLN4570A

### **RadioPAK™**

The RadioPAK is lightweight and comfortable. Worn around the waist, it keeps radios/phones at hand. It features a separate 6 x 8 inch zippered pouch for other on-the-job necessities. Adjustable woven nylon belt fits both men and women.

RLN4815A	RadioPAK Radio/Utility Case
4280384F89	RadioPAK Extension Belt For waists larger than 40 inches.



*Unlike rigid holders,  
the universal-fit RadioPAK  
is lightweight and comfortable.*

*An ideal companion for  
two-way radios, as well as  
iDEN® portables  
and cellular phones.*

## Carry Accessories:

You'd be surprised how much time can be saved when a radio is always in the same place — made easy by this versatile selection of Motorola Original® carry accessories.

### Carrying Cases

Full coverage carrying cases provide a convenient way to carry your radio while protecting it from the environment. These cases are designed to fit all VISAR radios and battery configurations permitting audio to be heard clearly. Choose from nylon or leather construction and a variety of other carry accessories.

	MEDIUM CAPACITY BATTERIES
NDN4010A	Hard Leather DTMF Case with 2.5 Inch Swivel Belt Loop
NDN4011A	Hard Leather Case with 2.5 Inch Swivel Belt Loop
TDN9659C	Soft Leather Case with Belt Loop and Wrist Strap
TDN9657B	Nylon Case with Belt Loop

	HIGH & ULTRA HIGH CAPACITY BATTERIES
NDN4012A	Hard Leather DTMF Case with 2.5 Inch Swivel Belt Loop
NDN4013A	Hard Leather Case with 2.5 Inch Swivel Belt Loop
TDN9660C	Soft Leather Case with Belt Loop and Wrist Strap
TDN9658B	Nylon Case with Belt Loop

	CARRY ACCESSORIES
NTN7632A	Plastic Carry Holster with 1.5 Inch Belt Clip
NTN7633A	Plastic Carry Holster with 2.5 Inch Belt Clip
TDN9675B	Soft Leather Wrist Strap
4200865599	1.75 Inch Wide Black Leather Belt For all models.

NTN5243A	Adjustable, Black Nylon, Carrying Strap Attaches to "D" ring on case.
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	WATERPROOF BAG
HLN9985B	Waterproof Bag

	MISCELLANEOUS
TDN9327A	Portable Radio Hanger For door panels up to 2.75 inches.
TDN9373A	Portable Radio Hanger For door panels up to 2.75 to 3.25 inches.



NTN5243A

NDN4010A  
Hard Leather DTMF Case  
with 2.5 Inch Swivel Belt  
Loop



NDN4012A  
Hard Leather  
DTMF Case  
for High  
Capacity  
Batteries



NDN4013A  
Hard Leather  
Case with  
2.5 Inch Swivel  
Belt Loop





**VISAR®**

## chargers

### VISAR® Single Unit, Desktop Chargers

These chargers have the power supply built into the line cord giving the user a smaller base unit for easier storage. It also utilizes an enhanced charging algorithm that will help maximize the life of your batteries. It will rapid rate charge both NiCd and NiMH batteries.

HKTN4004B	VISAR/KVL Charger Kit, 120V - US Includes adapter PMLN5122A and Single-Unit Charger WPLN4111AR.
HKTN4005A	VISAR/KVL Charger Kit, 220V - Euro Includes adapter PMLN5122A and Single-Unit Charger WPLN4112AR.
HKTN4006A	VISAR/KVL Charger Kit, 240V - UK Includes adapter PMLN5122A and Single-Unit Charger WPLN4113AR.
PMLN5122A	VISAR Adapter for Single-Unit Chargers

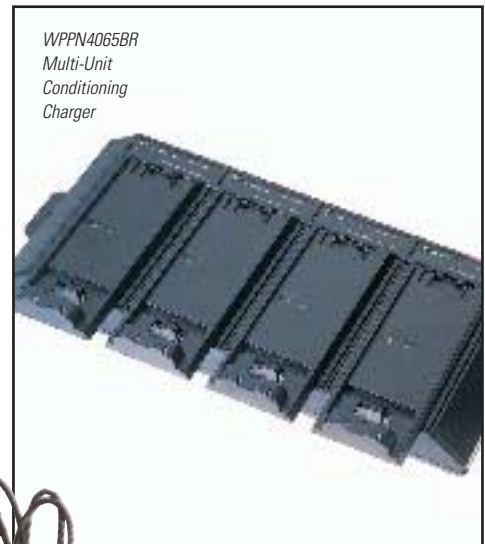


HKTN4004B  
VISAR/KVL  
Charger Kit

### Motorola Conditioning Chargers – MCC

The MCC features Instant Fault Detection technology that detects faulty batteries in seconds. You'll know right away when a battery won't operate at peak performance - saving you time and trouble. Each unit rapidly charges NiCd and NiMH batteries and optimizes battery performance. It's patented negative pulse charging process minimizes overheating and overcharging, extending useful battery life. Batteries can be left on the charger for extended periods of time, without worry of heat build-up. Optional accessories are available that allow the MCC to be used in both AC and DC environments – that's flexibility.

WPLN4100CR	Charger Kit, 120V, AC. Includes both Base Charger Unit and 7V Adapter Plate.
WPLN4101BR	Charger Kit, 220V, AC. Includes both Base Charger Unit and 7V Adapter Plate.
WPPN4002BR	Base Unit Conditioning Charger, 120V Adapter plate sold separately.
WPPN4006AR	Base Unit Conditioning Charger, 220V Adapter plate sold separately.
WPPN4065BR	4-Station Multi-Unit Conditioning Charger, 120V, Adapter Plate sold separately.
WPPN4003CR	7V Adapter Plate



WPPN4065BR  
Multi-Unit  
Conditioning  
Charger

### MCC ACCESSORIES

3080384G15	Vehicular Power Adapter
RLN4814A	Vehicular Mounting Bracket and Hard Wire Cable For Single-Unit Motorola Conditioning Chargers. Includes DC Hard Wire Cable 3080384M21.
3080384M21	DC Hard Wire Cable. For vehicular installation.



RLN4814A  
Vehicular Mounting  
Bracket and  
Hard Wire  
Cable

# Battery Maintenance System<sup>PLUS</sup>:

Using interchangeable battery adapters the BMS<sup>PLUS</sup> is capable of charging and discharging, analyzing, conditioning and cycle testing batteries.

## Battery Maintenance System<sup>PLUS</sup> – BMS<sup>PLUS</sup>

Increase the useful life of your batteries. Using interchangeable battery adapters (sold separately), the BMS<sup>PLUS</sup> is capable of charging and discharging, analyzing, conditioning and cycle testing batteries. It supports NiCd, NiMH and Li-ion batteries (Li-ion 6-station units only) and tracks better voltage and capacity (mAh). Its easy-to-use design supports hundreds of two-way, cellular and camcorder batteries. The BMS<sup>PLUS</sup> has a 3-year warranty and includes serial printer\* port (RS-232).

WPLN4079BR	6-Station BMS <sup>PLUS</sup> , 120V, AC, 50/60 Hz - US Plug
WPLN4080BR	6-Station BMS <sup>PLUS</sup> , 230V, AC, 50/60 Hz - Euro Plug
WPPN4085AR	BMS <sup>PLUS</sup> Li-ion Field Upgrade Kit. Upgrades WPLN4079AR, WPLN4080AR, WPLN4081AR. Allows units to support Li-ion batteries.
NDN4005B	3-Station BMS <sup>PLUS</sup> , 120V, AC, 50/60 Hz. Does not support Li-ion or 3-cell batteries.
NDN4006B	3-Station BMS <sup>PLUS</sup> , 230V, AC, 50/60 Hz. Does not support Li-ion or 3-cell batteries.

### BMS<sup>PLUS</sup> ADAPTERS

TDN9717A	Adapter. For NiCd batteries only.
CDN6141A	Adapter. For NiCd, and NiMH batteries.

\*Compatible with the STAR Micronics SP200 Series printers (and other printers with STAR emulation); available from STAR Micronics distributors.

## Battery Optimizing System II – BOS II

No other battery analyzer matches the speed, accuracy, versatility and ease-of-use of the BOS II in providing powerful analyzing capabilities. Users can select from 12 pre-programmed service programs making it quick and easy to get up and running. Because the BOS II is programmable, users can create custom programs to perform a wide variety of tasks specific to individual needs. New enhancements include new navigation keys and an improved, more intuitive menu system. Regular use of the BOS II can optimize battery performance and help extend battery life, helping reduce battery replacement costs.

- Support for NiCd, NiMH, Li-ion, and SLA batteries 100W Power Supply programmable from 100 mAh to 4 Amps per station
- Interchangeable Adapters accommodate all major brands
- Includes a variety of User Programs and allows customizable programming
- Proprietary Recondition Cycle restores NiCd and NiMH batteries
- Increased processing power and testing resolution – including a Three-minute Quicktest™ that measures the batteries' State of Health (SoH) Printer Output for reports and labels
- Three-year Warranty

WPLN4124AR	BOS II, 4-Station, 90-264V, AC - US Plug. Adapter Plates Required.
WPLN4125AR	BOS II, 4-Station, 90-264V, AC - Euro/UK Plug. Adapter Plates Required.

### BOS ADAPTERS

RL-73183	Standard Adapter - VISAR
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WPLN4079BR  
6-Station Battery  
Maintenance System<sup>PLUS</sup>



WPLN4124AR  
4-Station BOS II





## ***Motorola Original® Accessories let you make the most of your radio's capabilities.***

You likely chose your Motorola mobile radio for its ease of use and exceptional reliability — certainly a sound business decision. Choosing Motorola Original® accessories for your radio is also the right call to make.

That's because every Motorola Original® accessory is designed, built and rigorously tested to the same quality standards as Motorola radios. So you can be sure that each will be ready to do its job, time after time.

What's more, insisting on Motorola Original® accessories can help increase your productivity. That's because you can count on every accessory to do its job time after time. If you take a chance on a mismatched antenna, a clumsy handset or an ill-fitting mounting, your radio may not perform at the moment you have to use it.

Keep your Motorola radio performing at its peak. Count on this collection of Motorola Original® accessories for your important business communication needs. You'll find Speakers to help get the word out. In-vehicle mounting accessories for ease of use when on the move. Control Station accessories for an efficient, streamlined operation. A variety of antennas to extend range, and help maximize communication in urban areas. They'll help you work smarter, harder and with greater convenience.

*MCS 2000 mobile radios continue to help professionals on the move stay connected.*

**MCS 2000 RADIOS**

This discontinued full-featured mobile analog radio is compact and lightweight, yet is packed with power and performance. Built on a truly flexible platform, it is dynamic enough to change with the times through easy and economical software upgrades plus the wide selection of Motorola Original® accessories on the following pages.



**microphones**

Adapter cables allow a second microphone to be added through the mobile accessory connector. Second PTT microphone (HMN4069E or HMN4072E) required.

**Microphones**

- HMN4069E Standard White Palm Microphone  
Includes 40 foot cable.
- HMN4072E Classic White Palm Microphone  
Includes 40 foot cable.
- NMN6210D 3x4 Button Keypad Microphone  
Includes 3 additional programmable buttons.
- HMN4049C Noise-Cancelling Microphone
- HMN1085B Handset with Hang-up Cup

**MICROPHONE ADAPTER CABLES**

- HKN6129A 17 Foot Adapter Cable  
For second microphone.
- HKN6130A 40 Foot Adapter Cable  
For second microphone.



*HMN4069E  
Standard White Palm  
Microphone*



# MCS 2000™

## hands-free audio

### Visor Microphone and PTT Switches

Improve convenience and safety with the Visor Microphone and its compatible hands free transmission options. Small microphone mounts to vehicle's visor for convenient hands free radio operation. Use with choice of external Push-to-Talk switch.

- FMN1611C Dash Mount Visor Microphone
- HMN1073A Remote Mount Visor Microphone

### EXTERNAL PTT ACCESSORIES

- HLN5131C Pushbutton with Push-to-Talk  
Can be held in the hand, or mounted to the vehicle with touch fasteners.
- GLN7278B Foot Switch with Push-to-Talk  
Mounts to floor of vehicle
- GLN7279A Gooseneck Mount with Push-to-Talk  
Attaches to vehicle steering column.
- HKN6116A 1 Foot Adapter Cable
- HLN6356B Installation Hardware Kit

### Emergency Switches

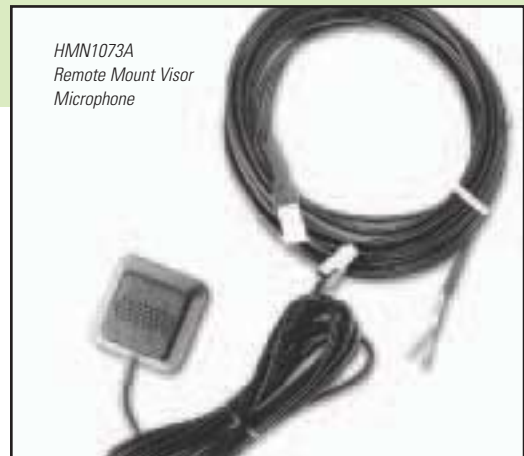
Lets user notify the base station quickly and discreetly of trouble. Sends unit ID alarm to base station and activates the microphone.

- GLN7280A Emergency Push Button
- HLN5113B Emergency Foot Switch

### External Alarm Relay Accessories

These External Alarm Relay accessories can help provide extra protection from radio theft and tampering.

- GLN7282A Alarm Buzzer
- HLN6372A Key Lock Mount
- HKN6128A Ignition Switch Cable
- GKN6262B Car Radio Mute Cable



HMN1073A  
Remote Mount Visor  
Microphone

*For conversations  
on the road,  
a Remote Mount  
Visor Microphone  
can be mounted  
to the vehicle  
and used for  
hands-free  
communication.*

## Control Station:

Turn a MCS 2000 into a desktop base station.  
Perfect for fleet operators in transportation,  
construction and public safety industries.

### Control Station

These control station accessories allow you to convert MCS 2000 mobile two-way radios into attractive, convenient base stations. The radio sits in a choice of two desktop trays. Add an internal microphone, speaker and power supply. This makes an ideal communication solution for transportation, manufacturing, construction and public safety users.

#### CONTROL STATION ACCESSORIES

RMN5068A	Desktop Microphone. Black. Large Push-to-Talk button.
HLN6404A	Desktop Tray with Speaker - Low Power For use with Model II and III.
HLN6405A	Desktop Tray without Speaker - Low Power Rubber. For use with Model I.
HLN6580B	Desktop Tray with Speaker - Mid Power For use with Model II and III.
HLN6581A	Desktop Tray without Speaker - Low Power Hard Plastic. For use with Model II and III.
HPN4008B	Power Supply, 1-25W, for low power radios. Power cord included.
HPN4007A	Power Supply, 25-60W, for low power radios. Power cord included.

#### POWER CABLES

HKN4191B	10 Foot Low/Mid Power Cable
HKN4192B	20 Foot Low/Mid Power Cable
HKN6110B	20 Foot High Power Cable Not for Low/Mid power use.

### Speakers

Communicate with the public in the event of an emergency, public events or festivals. These accessories can help you get the word out whether it's from a vehicle or from a desktop station through speakers at a fixed location.

HSN4038A	External 13 Watt Water-resistant Speaker Requires adapter cable HKN6127A for dash mount.
HSN4039A	External 7.5 Watt Water-resistant Speaker Requires adapter cable HKN6127A for dash mount.
HKN6127A	Speaker Adapter Cable

## mounting

### Mounting Brackets

Mobile radios are often installed on the dash of a vehicle, and can run off its power source. Here are some of the accessories available for mounting mobiles in a vehicle.

GLN7324A	Low-Profile Mounting Bracket
GLN7317A	High-Profile Mounting Bracket. Extra clearance so radio can be tilted for a better view. Can also be mounted to floor.
HLN6372A	Key Lock Mount Key lock helps provide extra protection from theft. Lock/unlock radio from position in the mounting bracket.

### Remote Mounting Kits

Converts a low or mid power radio from dash to remote mount. Ideal for vehicles with no convenient place to mount the radio near the dashboard, or where security is a concern. Includes 17 foot control head cable, 20 foot power cable, 40 foot power cable, control head back plate and mounting hardware, front plate for the transceiver and an adapter for the speaker.

H1634A	Remote Mount Retrofit Kit. Model I.
H1635A	Remote Mount Retrofit Kit. Models II and III.

#### REMOTE MOUNT KIT ACCESSORIES

HKN6111B	10 Foot Control Head Cable
HKN6112B	17 Foot Control Head Cable
HKN6113B	22 Foot Control Head Cable
HKN6118B	40 Foot Control Head Cable





# MCS 2000™

## antennas

### Antennas

The signals for these antennas are radiated vertically, making them ideal for urban environments where buildings might obstruct the signal.

#### 800 MHz ANTENNAS

HAF4002A 1/4 Wave Roof Mount, 806-900 MHz  
 RRA4983A Roof Mount, 3dB Gain, 806-900 MHz

#### 900 MHz ANTENNAS

RRA4935A Roof Mount with 14 Ft. Cable  
 3dB Gain, 890-960 MHz  
 RAF4003ARM Roof Mount with 22 Ft. Cable  
 3dB Gain, 860-960 MHz

#### VHF ANTENNAS

HAD4006A 1/4 Wave Roof Mount, 136-144 MHz  
 HAD4007A 1/4 Wave Roof Mount, 144-152 MHz  
 HAD4008A 1/4 Wave Roof Mount, 152-162 MHz  
 HAD4009A 1/4 Wave Roof Mount, 162-174 MHz  
 RAD4010ARB Roof Mount, 3dB Gain, 136-174 MHz

#### UHF ANTENNAS

HAE4002A 1/4 Wave Roof Mount, 403-430 MHz  
 HAE4003A 1/4 Wave Roof Mount, 450-470 MHz  
 HAE4004A 1/4 Wave Roof Mount, 470-512 MHz  
 HAE4010A Roof Mount, 3.5dB Gain, 403-430 MHz  
 HAE4011A Roof Mount, 3.5dB Gain, 450-470 MHz  
 HAE4012A Roof Mount, 3.5dB Gain, 470-495 MHz  
 HAE4013A Roof Mount, 3.5dB Gain, 494-512 MHz

### Low Profile Antennas

RAE4162A White, 410-430 MHz, 3dB Gain Antenna  
 RAE4163A Black, 410-430 MHz, 3dB Gain Antenna  
 RAE4164A Black, 430-450 MHz, 3dB Gain Antenna  
 RAE4165A White, 430-450 MHz, 3dB Gain Antenna  
 RAE4166A Black, 470-490 MHz, 3dB Gain Antenna  
 RAE4167A White, 450-470 MHz, 3dB Gain Antenna  
 RAE4168A Black, 450-470 MHz, 3dB Gain Antenna  
 RAE4169A White, 470-490 MHz, 3dB Gain Antenna

RAD4207A  
 RAD4208A  
 RAD4209A  
 RAD4210A

RAF4217A  
 RAF4218A  
 RAF4219A  
 RAF4220A

3080384M44  
 3080384M45  
 3080384M48  
 3080384M46  
 3080384M47

### UHF ANTENNAS

White, 410-430 MHz, 3dB Gain Antenna  
 Black, 410-430 MHz, 3dB Gain Antenna  
 Black, 430-450 MHz, 3dB Gain Antenna  
 White, 430-450 MHz, 3dB Gain Antenna  
 Black, 470-490 MHz, 3dB Gain Antenna  
 White, 450-470 MHz, 3dB Gain Antenna  
 Black, 450-470 MHz, 3dB Gain Antenna  
 White, 470-490 MHz, 3dB Gain Antenna

### VHF ANTENNAS

White, 150-168 MHz, Unity Gain Antenna  
 Black, 150-168 MHz, Unity Gain Antenna  
 Black, 142-160 MHz, Unity Gain Antenna  
 White, 142-160 MHz, Unity Gain Antenna

### 800 MHz ANTENNAS

White, 821-896 MHz, 3dB Gain Antenna  
 Black, 821-896 MHz, 3dB Gain Antenna  
 Black, 806-866 MHz, 3dB Gain Antenna  
 White, 806-866 MHz, 3dB Gain Antenna

### MOUNTING KITS

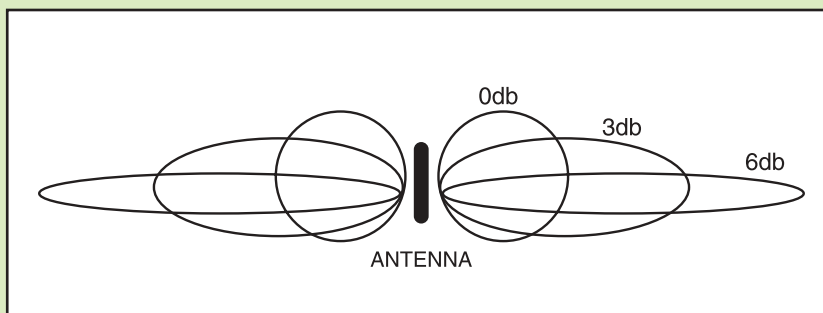
Black Magnetic with 12 ft. of RG58A/U Cable, Mini UHF Crimp  
 Chrome Magnetic with 12 ft. of RG58A/U Cable, Mini UHF Crimp  
 3/4 Inch Roof Mount with 17 ft. of RG58A/U Cable, Mini UHF Crimp  
 Chrome Trunk Mount with 17 ft. of RG58A/U Cable, Mini UHF Crimp  
 Black Trunk Mount with 17 ft. of RG58A/U Cable, Mini UHF Crimp



Mini UHF Crimp is included with RG58A/U cable in our selection of Mounting Kits.



*Antennas that radiate vertically are ideal for urban environments. Direct signal antennas are designed for locations where signal coverage is sparse and must cover a larger area.*



**antenna gain characteristics**

**Low Profile Antenna Kits**

These complete kits make installation easy for multipoint mobile applications. Perfect for service vehicles, public transportation, law enforcement, mining and construction vehicles, as well as numerous other commercial and industrial applications where mobility is a requirement. All kits include a 3/4 inch brass mount with 17 feet of RG58U/U cable.

**UHF ANTENNA KITS**

- RAE4162ARB White, 410-430 MHz, 3dB Gain Roof Mount Antenna
- RAE4163ARB Black, 410-430 MHz, 3dB Gain Roof Mount Antenna
- RAE4164ARB Black, 430-450 MHz, 3dB Gain Roof Mount Antenna
- RAE4165ARB White, 430-450 MHz, 3dB Gain Roof Mount Antenna
- RAE4166ARB Black, 470-490 MHz, 3dB Gain Roof Mount Antenna
- RAE4167ARB White, 450-470 MHz, 3dB Gain Roof Mount Antenna
- RAE4168ARB Black, 450-470 MHz, 3dB Gain Roof Mount Antenna
- RAE4169ARB White, 470-490 MHz, 3dB Gain Roof Mount Antenna

**VHF ANTENNA KITS**

- RAD4207ARB White, 150-168 MHz, Unity Gain Roof Mount Antenna
- RAD4208ARB Black, 150-168 MHz, Unity Gain Roof Mount Antenna
- RAD4209ARB Black, 142-160 MHz, Unity Gain Roof Mount Antenna
- RAD4210ARB White, 142-160 MHz, Unity Gain Roof Mount Antenna

**800 MHz ANTENNA KITS**

- RAF4217ARB White, 821-896 MHz, 3dB Gain Roof Mount Antenna
- RAF4218ARB Black, 821-896 MHz, 3dB Gain Roof Mount Antenna
- RAF4219ARB Black, 806-866 MHz, 3dB Gain Roof Mount Antenna
- RAF4220ARB White, 806-866 MHz, 3dB Gain Roof Mount Antenna

*The above diagram compares a Unity gain or 0dB antenna with 3dB and 6dB radiation patterns. From the diagram above you can see that it is possible to communicate with a cell site further away. There are a few traps however, these high frequency signals have a tendency to bounce off buildings in built up areas, and off mountains in a valley. This means a high gain antenna is best-used in country areas where wide flat plains are between you and the cell site. In mountainous areas or in city environments where the topography varies considerably, a high gain radiation pattern will not work as efficiently as a unity gain.*



# MAXTRAC®

MAXTRAC® mobile radios can continue to provide dependable communication wherever your vehicle takes you.

## MAXTRAC® RADIOS

This discontinued compact synthesized mobile radio continues to fit comfortably in today's downsized vehicles, and provides up to 32 channel operation and wide-spaced channel separation.



HMN1035C  
Heavy-Duty Palm  
Microphone

## microphones

### Microphones

- HMN1035C Heavy-Duty Palm Microphone with 10.5 Foot Coil Cord.
- HMN1037B Non-Backlit Touch-Code Microphone with Hang-up Clip
- HMN1056D Compact Palm Microphone with 7 Foot Coil Cord
- HMN4016A Noise-Cancelling Microphone
- HMN3013A Non-Backlit Full Size DTMF Microphone

### MICROPHONE ACCESSORIES

- HLN9073B Handset with Hang-up Clip
- HLN9559A 7 Foot Extended Coil Cord For HMN1035C and HMN1056D.
- HLN9560A 10.5 Foot Coil Cord for Microphones For HMN1035C and HMN1056D.



HMN1037B  
Non-Backlit  
Touch-Code  
Microphone



HPN4007A  
Power Supply



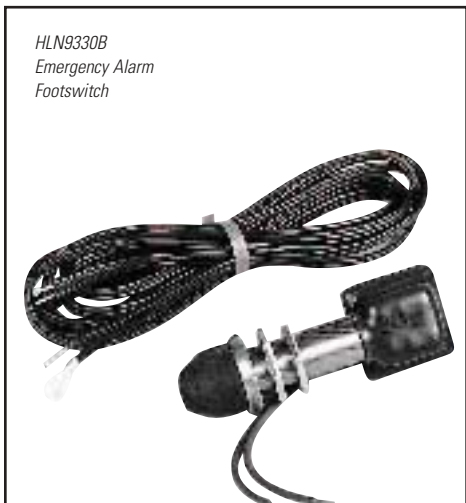
HSN4019B  
5 Watt  
External Speaker

## alarm accessories

### External Alarm Relay Accessories

These External Alarm Relay accessories can help provide extra protection from radio theft and tampering.

HLN9328C	External Alarm Relay and Cable. MAXTRAC 300 (16-pin connector) and 800 MHz display models only.
HLN9374C	External Alarm Relay and Cable. MAXTRAC 100 (5-pin connector) and 800 MHz non-display and 900 MHz.
RLN5132A	Emergency Alarm with Housing Connector
HLN9330B	Emergency Alarm Footswitch
HKN4284A	Ignition Switch Cable. 5-pin connector.
HKN9327BR	Ignition Switch Cable with Housing Connector. 16-pin connector.



HLN9330B  
Emergency Alarm  
Footswitch

## control station

Control Station Kit includes power supply, adapter cable, desk microphone and base tray.

HLN3199C	High Power Control Station Package. 25-60 watt models.
HLN3035C	Low Power Control Station Package. 1-25 watt models.

### CONTROL STATION ACCESSORIES

RMN5068A	Desktop Microphone. Black. Large Push-to-Talk button.
HLN5292BR	Base Station Tray
HPN4008B	Power Supply, 1-25W, for low power radios. Power cord included.
HPN4007A	Power Supply, 25-60W, for low power radios. Power cord included.

### POWER CABLES, PLUG & ADAPTER

HKN4139A	Power Cable for Low Power Control Station
HKN9455A	10 Foot Power Cable for High Power Control Station
HLN9457A	Accessory Plug and 16 Pins
HKN9557A	Mini-UHF Adapter Cable

### Speakers and Public Address Kits

These accessories can help you get the word out whether it's from a vehicle or from a desktop station through speakers at a fixed location.

HLN3145CR	Public Address Kit. Includes two cables for mobile connection to public address box and speaker cables. Requires HSN1000B speaker.
HSN1000B	Amplified External Speaker for Public Address Audio 6 Watt. Required for use with HLN3145CR.
HKN9324AR	15 Ft. Public Address/Speaker Cable. One cable per speaker required.
HKN9325A	Cable Extender Kit for Public Address Kit.

### EXTERNAL SPEAKERS

HSN4019B	5 Watt External Speaker for Receiver Audio. Requires 5-pin options connector.
HSN9326A	5 Watt External Speaker for Receiver Audio. Requires 16-pin options connector.

## mounting brackets

Spare mounting brackets for radio installation in a second vehicle or providing a second mounting location for additional operator convenience.

HLN9637A	Key Lock Mount for Lowband and 800 MHz
HLN5226B	Extra Stability Mount. For HLN5189.
HLN5189A	Non-Locking Trunnion. For 800/840 Series only.

### Remote Mounting Kits

Converts a low or mid power radio from dash to remote mount. Includes 17 foot control head cable, 20 and 40 foot power cables, control head back plate and mounting hardware, front plate for the transceiver and an adapter for the speaker.

H1634A	Remote Mount Retrofit Kit. Model I.
H1635A	Remote Mount Retrofit Kit. Models II and III.

### REMOTE MOUNT KIT ACCESSORIES

HKN6111B	10 Foot Control Head Cable
HKN6112B	17 Foot Control Head Cable
HKN6113B	22 Foot Control Head Cable
HKN6118B	40 Foot Control Head Cable



# MAXTRAC®

## antennas

### Antennas

The signals for these antennas are radiated vertically, making them ideal for urban environments where buildings might obstruct the signal.

	<b>800 MHz ANTENNAS</b>
HAF4002A	1/4 Wave Roof Mount, 806-900 MHz
RRA4983A	Roof Mount, 3dB Gain, 806-900 MHz
	<b>900 MHz ANTENNAS</b>
RRA4935A	Roof Mount with 14 Ft. Cable 3dB Gain, 890-960 MHz
RAF4003ARM	Roof Mount with 22 Ft. Cable 3dB Gain, 860-960 MHz
	<b>VHF ANTENNAS</b>
HAD4006A	1/4 Wave Roof Mount, 136-144 MHz
HAD4007A	1/4 Wave Roof Mount, 144-152 MHz
HAD4008A	1/4 Wave Roof Mount, 152-162 MHz
HAD4009A	1/4 Wave Roof Mount, 162-174 MHz
RAD4010ARB	Roof Mount, 3dB Gain, 136-174 MHz
	<b>UHF ANTENNAS</b>
HAE4002A	1/4 Wave Roof Mount, 403-430 MHz
HAE4003A	1/4 Wave Roof Mount, 450-470 MHz
HAE4004A	1/4 Wave Roof Mount, 470-512 MHz
HAE4010A	Roof Mount, 3.5dB Gain, 403-430 MHz
HAE4011A	Roof Mount, 3.5dB Gain, 450-470 MHz
HAE4012A	Roof Mount, 3.5dB Gain, 470-495 MHz
HAE4013A	Roof Mount, 3.5dB Gain, 494-512 MHz
	<b>LOW BAND ANTENNAS</b>
RAB4002ARB	1/4 Wave Base Loaded, 29.7-36.0 MHz
RAB4003ARB	1/4 Wave Base Loaded, 36-42 MHz
RAB4004ARB	1/4 Wave Base Loaded, 42-50 MHz
	<b>ANTENNA ADAPTERS</b>
5880367B22	Mini-UHF to UHF Antenna Adapter
2880376E84	Mini-UHF Antenna Connector

### Low Profile Antennas

RAE4162A
RAE4163A
RAE4164A
RAE4165A
RAE4166A
RAE4167A
RAE4168A
RAE4169A

RAD4207A
RAD4208A
RAD4209A
RAD4210A

RAF4217A
RAF4218A
RAF4219A
RAF4220A

3080384M44
3080384M45
3080384M48
3080384M46
3080384M47

### UHF ANTENNAS

White, 410-430 MHz, 3dB Gain Antenna
Black, 410-430 MHz, 3dB Gain Antenna
Black, 430-450 MHz, 3dB Gain Antenna
White, 430-450 MHz, 3dB Gain Antenna
Black, 470-490 MHz, 3dB Gain Antenna
White, 450-470 MHz, 3dB Gain Antenna
Black, 450-470 MHz, 3dB Gain Antenna
White, 470-490 MHz, 3dB Gain Antenna

### VHF ANTENNAS

White, 150-168 MHz, Unity Gain Antenna
Black, 150-168 MHz, Unity Gain Antenna
Black, 142-160 MHz, Unity Gain Antenna
White, 142-160 MHz, Unity Gain Antenna

### 800 MHz ANTENNAS

White, 821-896 MHz, 3dB Gain Antenna
Black, 821-896 MHz, 3dB Gain Antenna
Black, 806-866 MHz, 3dB Gain Antenna
White, 806-866 MHz, 3dB Gain Antenna

### MOUNTING KITS

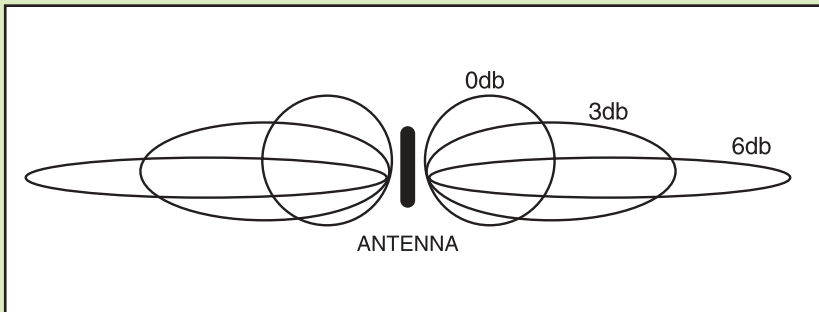
Black Magnetic with 12 ft. of RG58A/U Cable, Mini UHF Crimp
Chrome Magnetic with 12 ft. of RG58A/U Cable, Mini UHF Crimp
3/4 Inch Roof Mount with 17 ft. of RG58A/U Cable, Mini UHF Crimp
Chrome Trunk Mount with 17 ft. of RG58A/U Cable, Mini UHF Crimp
Black Trunk Mount with 17 ft. of RG58A/U Cable, Mini UHF Crimp



Mini UHF Crimp is included with RG58A/U cable in our selection of Mounting Kits.



*Antennas that radiate vertically are ideal for urban environments. Direct signal antennas are designed for locations where signal coverage is sparse and must cover a larger area.*



**antenna gain characteristics**

**Low Profile Antenna Kits**

These complete kits make installation easy for multipoint mobile applications. Perfect for service vehicles, public transportation, law enforcement, mining and construction vehicles, as well as numerous other commercial and industrial applications where mobility is a requirement. All kits include a 3/4 inch brass mount with 17 feet of RG58U/U cable.

**UHF ANTENNA KITS**

- RAE4162ARB White, 410-430 MHz, 3dB Gain Roof Mount Antenna
- RAE4163ARB Black, 410-430 MHz, 3dB Gain Roof Mount Antenna
- RAE4164ARB Black, 430-450 MHz, 3dB Gain Roof Mount Antenna
- RAE4165ARB White, 430-450 MHz, 3dB Gain Roof Mount Antenna
- RAE4166ARB Black, 470-490 MHz, 3dB Gain Roof Mount Antenna
- RAE4167ARB White, 450-470 MHz, 3dB Gain Roof Mount Antenna
- RAE4168ARB Black, 450-470 MHz, 3dB Gain Roof Mount Antenna
- RAE4169ARB White, 470-490 MHz, 3dB Gain Roof Mount Antenna

**VHF ANTENNA KITS**

- RAD4207ARB White, 150-168 MHz, Unity Gain Roof Mount Antenna
- RAD4208ARB Black, 150-168 MHz, Unity Gain Roof Mount Antenna
- RAD4209ARB Black, 142-160 MHz, Unity Gain Roof Mount Antenna
- RAD4210ARB White, 142-160 MHz, Unity Gain Roof Mount Antenna

**800 MHz ANTENNA KITS**

- RAF4217ARB White, 821-896 MHz, 3dB Gain Roof Mount Antenna
- RAF4218ARB Black, 821-896 MHz, 3dB Gain Roof Mount Antenna
- RAF4219ARB Black, 806-866 MHz, 3dB Gain Roof Mount Antenna
- RAF4220ARB White, 806-866 MHz, 3dB Gain Roof Mount Antenna

*The above diagram compares a Unity gain or 0dB antenna with 3dB and 6dB radiation patterns. From the diagram above you can see that it is possible to communicate with a cell site further away. There are a few traps however, these high frequency signals have a tendency to bounce off buildings in built up areas, and off mountains in a valley. This means a high gain antenna is best-used in country areas where wide flat plains are between you and the cell site. In mountainous areas or in city environments where the topography varies considerably, a high gain radiation pattern will not work as efficiently as a unity gain.*



## MARATRAC®

*MARATRAC® mobile radios can continue to provide dependable communication wherever your vehicle takes you.*

### **MARATRAC® RADIOS**

With the small control head of this two-piece, discontinued mobile radio, you can continue to mount the unit anywhere in a vehicle.

Dedicated buttons provide easy control of features like scan, multiple Private Line codes, signalling calls, external alarms, and repeater Talkaround.



## *microphones*

### **Microphones**

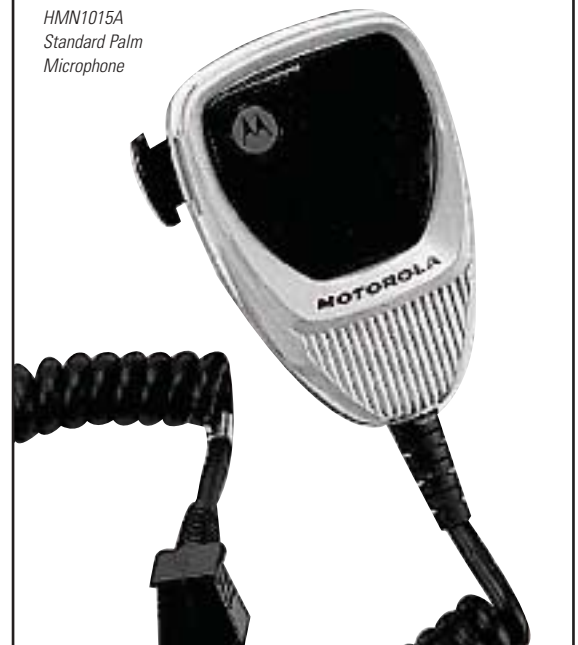
A variety of microphones are available to add flexibility and ease of operation.

- |          |   |
|----------|---|
| HMN1015A | Standard Palm Microphone<br>For A2 and A3 models. |
| HMN1061A | Standard Palm Microphone<br>For A7 model.         |
| HMN4013A | Noise-Cancelling Microphone<br>For A7 model.      |
| HMN1032B | DTMF Microphone<br>For A7 model.                  |

### **MICROPHONE ACCESSORIES**

- |          |                          |
|----------|--------------------------|
| HLN1220B | Handset with Hang-Up Box |
|----------|--------------------------|

HMN1015A  
Standard Palm  
Microphone





## speakers

College campuses, commercial and industrial complexes, government facilities, military bases, municipal district, local schools and even cities have a great need to be able to communicate with the public in the event of an emergency, public events or festivals. These accessories can help you get the word out.

- HSN4020B External Speaker for MARATRAC A2 and A3 models
- HSN4021B External Speaker for MARATRAC A5 and A7 models

### SPEAKERS FOR SIREN

- TDN6251A Siren Speaker, round with chrome finish
- TDN6252A Siren Speaker, rectangular with chrome finish
- TDN6253A Siren Speaker, rectangular with grey finish
- TDN6254A Siren Speaker, round with grey finish

## control heads

Mount your choice of control head anywhere in a vehicle for more convenient installation and maximum ease of use.

### BASIC CONTROL HEADS

- HCN1089A VHF, UHF A7 Advanced Control Head
- HCN1090A Lowband A7, 99-channel Advanced Control Head with Adjustable Squelch Control. For use with radios shipped since 10/94.
- HCN1051A Hand Held A5 Control Head

### Front and Rear Control Head Kit

Front and Rear Control Head Kit includes auxiliary handset, hang-up cup, control box and power voice speaker. Requires control cable.

- HLN1398A Front and Rear Control Head Kit  
Requires one of the following control cable sets.

### CONTROL CABLES SETS

- YKN4228A 17 Foot Front and 40 Foot Rear Control Cable
- YKN4230A 17 Foot Front and 80 Foot Rear Control Cable
- YKN4229A 25 Foot Front and 40 Foot Rear Control Cable

## alarm accessories

### External Alarm Relay Accessories

These External Alarm Relay accessories can help provide extra protection from radio theft and tampering. Horn and Lights are not independently selectable on low band models.

- HKN1015A External Alarm Cable and Relay, VHF and UHF - For Horn and Lights
- HLN9368A External Alarm Cable and Relay, Low Band - For Horn and Lights



# MARATRAC®

## antennas

### Antennas

The signals for these antennas are radiated vertically, making them ideal for urban environments where buildings might obstruct the signal.

#### LOW BAND ANTENNAS

RAB4002ARA	1/4 Wave Base Loaded, 29.7-36 MHz
RAB4003ARA	1/4 Wave Base Loaded, 36-42 MHz
RAB4004ARA	1/4 Wave Base Loaded, 42-50 MHz

#### VHF ANTENNAS

TAD6112A	1/4 Wave Roof Mount, 144-152 MHz
TAD6113A	1/4 Wave Roof Mount, 152-162 MHz
TAD6114A	1/4 Wave Roof Mount, 162-174 MHz
TAD6290B	Unity Gain Roof Mount, 150-174 MHz
RAD4010ARA	3dB Gain Roof Mount, 136-174 MHz

#### UHF ANTENNAS

TAE6052A	1/4 Wave Roof Mount, 450-470 MHz
TAE6072A	3.5dB Gain Roof Mount, 450-470 MHz

### Low Profile Antennas

RAE4162A
RAE4163A
RAE4164A
RAE4165A
RAE4166A
RAE4167A
RAE4168A
RAE4169A

RAD4207A
RAD4208A
RAD4209A
RAD4210A

RAF4217A
RAF4218A
RAF4219A
RAF4220A

3080384M44
3080384M45
3080384M48
3080384M46
3080384M47

### UHF ANTENNAS

White, 410-430 MHz, 3dB Gain Antenna
Black, 410-430 MHz, 3dB Gain Antenna
Black, 430-450 MHz, 3dB Gain Antenna
White, 430-450 MHz, 3dB Gain Antenna
Black, 470-490 MHz, 3dB Gain Antenna
White, 450-470 MHz, 3dB Gain Antenna
Black, 450-470 MHz, 3dB Gain Antenna
White, 470-490 MHz, 3dB Gain Antenna

### VHF ANTENNAS

White, 150-168 MHz, Unity Gain Antenna
Black, 150-168 MHz, Unity Gain Antenna
Black, 142-160 MHz, Unity Gain Antenna
White, 142-160 MHz, Unity Gain Antenna

### 800 MHz ANTENNAS

White, 821-896 MHz, 3dB Gain Antenna
Black, 821-896 MHz, 3dB Gain Antenna
Black, 806-866 MHz, 3dB Gain Antenna
White, 806-866 MHz, 3dB Gain Antenna

### MOUNTING KITS

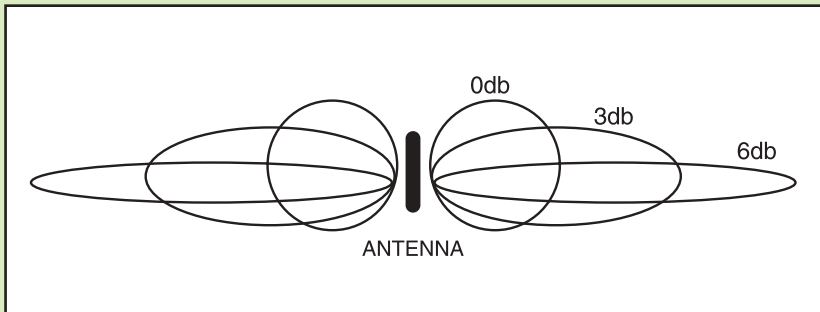
Black Magnetic with 12 ft. of RG58A/U Cable, Mini UHF Crimp
Chrome Magnetic with 12 ft. of RG58A/U Cable, Mini UHF Crimp
3/4 Inch Roof Mount with 17 ft. of RG58A/U Cable, Mini UHF Crimp
Chrome Trunk Mount with 17 ft. of RG58A/U Cable, Mini UHF Crimp
Black Trunk Mount with 17 ft. of RG58A/U Cable, Mini UHF Crimp



Mini UHF Crimp is included with RG58A/U cable in our selection of Mounting Kits.



*Antennas that radiate vertically are ideal for urban environments. Direct signal antennas are designed for locations where signal coverage is sparse and must cover a larger area.*



**antenna gain characteristics**

**Low Profile Antenna Kits**

These complete kits make installation easy for multipoint mobile applications. Perfect for service vehicles, public transportation, law enforcement, mining and construction vehicles, as well as numerous other commercial and industrial applications where mobility is a requirement. All kits include a 3/4 inch brass mount with 17 feet of RG58U/U cable.

**UHF ANTENNA KITS**

- RAE4162ARB White, 410-430 MHz, 3dB Gain Roof Mount Antenna
- RAE4163ARB Black, 410-430 MHz, 3dB Gain Roof Mount Antenna
- RAE4164ARB Black, 430-450 MHz, 3dB Gain Roof Mount Antenna
- RAE4165ARB White, 430-450 MHz, 3dB Gain Roof Mount Antenna
- RAE4166ARB Black, 470-490 MHz, 3dB Gain Roof Mount Antenna
- RAE4167ARB White, 450-470 MHz, 3dB Gain Roof Mount Antenna
- RAE4168ARB Black, 450-470 MHz, 3dB Gain Roof Mount Antenna
- RAE4169ARB White, 470-490 MHz, 3dB Gain Roof Mount Antenna

**VHF ANTENNA KITS**

- RAD4207ARB White, 150-168 MHz, Unity Gain Roof Mount Antenna
- RAD4208ARB Black, 150-168 MHz, Unity Gain Roof Mount Antenna
- RAD4209ARB Black, 142-160 MHz, Unity Gain Roof Mount Antenna
- RAD4210ARB White, 142-160 MHz, Unity Gain Roof Mount Antenna

**800 MHz ANTENNA KITS**

- RAF4217ARB White, 821-896 MHz, 3dB Gain Roof Mount Antenna
- RAF4218ARB Black, 821-896 MHz, 3dB Gain Roof Mount Antenna
- RAF4219ARB Black, 806-866 MHz, 3dB Gain Roof Mount Antenna
- RAF4220ARB White, 806-866 MHz, 3dB Gain Roof Mount Antenna

*The above diagram compares a Unity gain or 0dB antenna with 3dB and 6dB radiation patterns. From the diagram above you can see that it is possible to communicate with a cell site further away. There are a few traps however, these high frequency signals have a tendency to bounce off buildings in built up areas, and off mountains in a valley. This means a high gain antenna is best-used in country areas where wide flat plains are between you and the cell site. In mountainous areas or in city environments where the topography varies considerably, a high gain radiation pattern will not work as efficiently as a unity gain.*



# **SPECTRA®** SPECTRA® *mobile radios can continue to provide reliable SMARTNET trunked operation.*

## **SPECTRA® RADIOS**

The compact, space-saving footprint of this discontinued mobile radio lets you access multiple modes of operation from your choice of vehicle. With convenient FLASHport™ software upgrades and the Motorola Original® accessories that follow, your SPECTRA® radio can continue to meet evolving communication needs.



## **microphones**

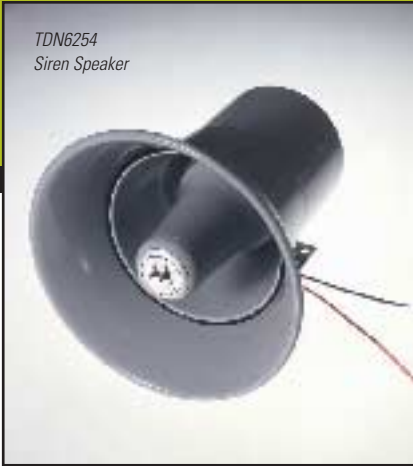
- |            |  |
|------------|--|
| HMN1080A   | Standard Palm Microphone   |
| HMN1081A   | Palm Microphone<br>For use with ASTRO® Digital SPECTRA.                          |
| HMN1061A   | Palm Microphone<br>For use with ASTRO® Digital SPECTRA<br>W9 Radio and A7 Model. |
| HMN1053B   | DTMF Microphone  |
| 5084898K10 | Noise-Cancelling Microphone<br>For W9 radio.                                     |
| HMN1079A   | Water-Resistant Palm Microphone  |

### **MICROPHONE ACCESSORIES**

- |          |                          |
|----------|--------------------------|
| HLN1220B | Handset with Hang-Up Box |
|----------|--------------------------|

HMN1053B  
DTMF Microphone





TDN6254  
Siren Speaker



HPN4007A  
Power Supply



HSN4019B  
5 Watt  
External  
Speaker

## alarm accessories

### Emergency Switches

Lets user notify the base station quickly and discreetly of trouble. Sends unit ID alarm to base station and activates the microphone.

- |          |                           |
|----------|---------------------------|
| HLN5131C | External Emergency Button |
| HLN5113B | Emergency Footswitch      |

## control station

These control station accessories allow you to convert SPECTRA mobile two-way radios into convenient base stations. The radio sits in a desktop tray, add an external microphone, speaker and power supply to complete. This makes an ideal communication solution for transportation, manufacturing, construction and public safety users.

### CONTROL STATION ACCESSORIES

- |          |   |
|----------|---|
| RMN5083A | Desktop Microphone. Black.<br>Large Push-to-Talk button.                |
| HLN6042A | Control Station Tray  |
| HPN4007A | Power Supply, 25-60 Watt<br>For high power radios. Power cord included. |
| HKN4139A | Power Cable   |

### Siren/Public Address Kits and Speakers

College campuses, commercial and industrial complexes, government facilities, military bases, municipal district, local schools and even cities have a great need to be able to communicate with the public in the event of an emergency, public events or festivals. These accessories can help provide audio for high ambient noise environments.

### SIREN/PUBLIC ADDRESS KITS

- |        |  |
|--------|--|
| H1500B | Siren/Public Address Kit. Steady tone operates via button on control head.                                     |
| H1336B | Siren/Public Address Kit. Provides controlled tones for hi/low, yelp and airhorn through supplemental housing. |

### SPEAKERS FOR SIREN AND PUBLIC ADDRESS

- |          |   |
|----------|---|
| TDN6251A | Siren Speaker, round with chrome finish       |
| TDN6252A | Siren Speaker, rectangular with chrome finish |
| TDN6253A | Siren Speaker, rectangular with grey finish   |
| TDN6254A | Siren Speaker, round with grey finish         |

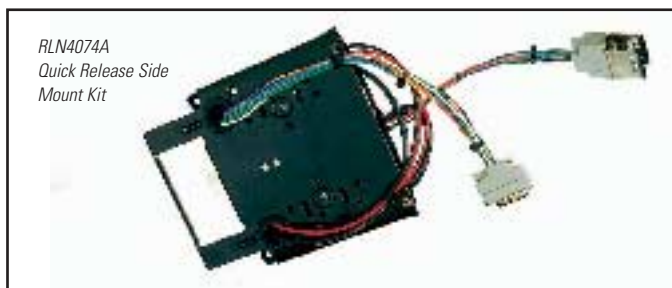
### EXTERNAL SPEAKER

- |          |  |
|----------|--|
| HSN4018B | External Speaker. For ambient high-noise environments. |
|----------|--|

## mounting

Spare mounting brackets for radio installation in a vehicle or providing a second mounting location for additional operator convenience.

- |          |   |
|----------|---|
| HLN6025A | Key Lock Mount<br>Key lock helps provide extra protection from theft.<br>Lock/unlock radio from position in the mounting bracket. |
| RLN4074A | Quick Release Side Mount Kit, includes radio mount, vehicle mount and mounting hardware.  |
| HLN6275A | Deck Mounting Hardware  |



RLN4074A  
Quick Release Side  
Mount Kit



# SPECTRA®

## antennas

### Antennas

The signals for these antennas are radiated vertically, making them ideal for urban environments where buildings might obstruct the signal.

#### 800 MHz ANTENNAS

HAF4002A 1/4 Wave Roof Mount, 806-900 MHz  
 RRA4983A Roof Mount, 3dB Gain, 806-900 MHz

#### 900 MHz ANTENNAS

RRA4935A Roof Mount with 14 Ft. Cable  
 3dB Gain, 890-960 MHz  
 RAF4003ARM Roof Mount with 22 Ft. Cable  
 3dB Gain, 860-960 MHz

#### VHF ANTENNAS

HAD4006A 1/4 Wave Roof Mount, 136-144 MHz  
 HAD4007A 1/4 Wave Roof Mount, 144-152 MHz  
 HAD4008A 1/4 Wave Roof Mount, 152-162 MHz  
 HAD4009A 1/4 Wave Roof Mount, 162-174 MHz  
 RAD4010ARB Roof Mount, 3dB Gain, 136-174 MHz

#### UHF ANTENNAS

HAE4002A 1/4 Wave Roof Mount, 403-430 MHz  
 HAE4003A 1/4 Wave Roof Mount, 450-470 MHz  
 HAE4004A 1/4 Wave Roof Mount, 470-512 MHz  
 HAE4010A Roof Mount, 3.5dB Gain, 403-430 MHz  
 HAE4011A Roof Mount, 3.5dB Gain, 450-470 MHz  
 HAE4012A Roof Mount, 3.5dB Gain, 470-495 MHz  
 HAE4013A Roof Mount, 3.5dB Gain, 494-512 MHz

### Low Profile Antennas

RAE4162A  
 RAE4163A  
 RAE4164A  
 RAE4165A  
 RAE4166A  
 RAE4167A  
 RAE4168A  
 RAE4169A

RAD4207A  
 RAD4208A  
 RAD4209A  
 RAD4210A

RAF4217A  
 RAF4218A  
 RAF4219A  
 RAF4220A

3080384M44  
 3080384M45  
 3080384M48  
 3080384M46  
 3080384M47

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 Black, 410-430 MHz, 3dB Gain Antenna  
 Black, 430-450 MHz, 3dB Gain Antenna  
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 Black, 470-490 MHz, 3dB Gain Antenna  
 White, 450-470 MHz, 3dB Gain Antenna  
 Black, 450-470 MHz, 3dB Gain Antenna  
 White, 470-490 MHz, 3dB Gain Antenna

### VHF ANTENNAS

White, 150-168 MHz, Unity Gain Antenna  
 Black, 150-168 MHz, Unity Gain Antenna  
 Black, 142-160 MHz, Unity Gain Antenna  
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White, 821-896 MHz, 3dB Gain Antenna  
 Black, 821-896 MHz, 3dB Gain Antenna  
 Black, 806-866 MHz, 3dB Gain Antenna  
 White, 806-866 MHz, 3dB Gain Antenna

### MOUNTING KITS

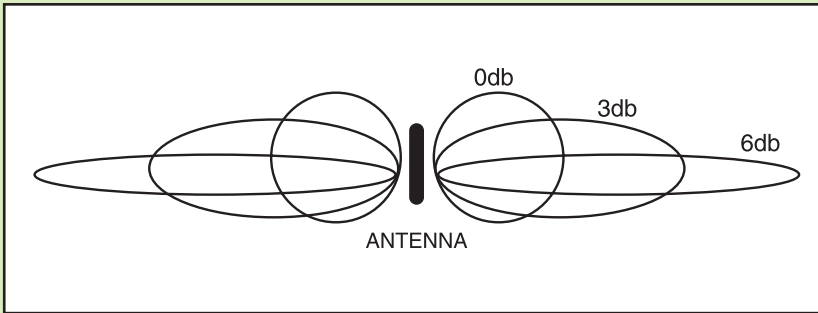
Black Magnetic with 12 ft. of RG58A/U Cable, Mini UHF Crimp  
 Chrome Magnetic with 12 ft. of RG58A/U Cable, Mini UHF Crimp  
 3/4 Inch Roof Mount with 17 ft. of RG58A/U Cable, Mini UHF Crimp  
 Chrome Trunk Mount with 17 ft. of RG58A/U Cable, Mini UHF Crimp  
 Black Trunk Mount with 17 ft. of RG58A/U Cable, Mini UHF Crimp



Mini UHF Crimp is included with RG58A/U cable in our selection of Mounting Kits.



*Antennas that radiate vertically are ideal for urban environments. Direct signal antennas are designed for locations where signal coverage is sparse and must cover a larger area.*



**antenna gain characteristics**

**Low Profile Antenna Kits**

These complete kits make installation easy for multipoint mobile applications. Perfect for service vehicles, public transportation, law enforcement, mining and construction vehicles, as well a numerous other commercial and industrial applications where mobility is a requirement. All kits include a 3/4 inch brass mount with 17 feet of RG58U/U cable.

**UHF ANTENNA KITS**

- RAE4162ARB White, 410-430 MHz, 3dB Gain Roof Mount Antenna
- RAE4163ARB Black, 410-430 MHz, 3dB Gain Roof Mount Antenna
- RAE4164ARB Black, 430-450 MHz, 3dB Gain Roof Mount Antenna
- RAE4165ARB White, 430-450 MHz, 3dB Gain Roof Mount Antenna
- RAE4166ARB Black, 470-490 MHz, 3dB Gain Roof Mount Antenna
- RAE4167ARB White, 450-470 MHz, 3dB Gain Roof Mount Antenna
- RAE4168ARB Black, 450-470 MHz, 3dB Gain Roof Mount Antenna
- RAE4169ARB White, 470-490 MHz, 3dB Gain Roof Mount Antenna

**VHF ANTENNA KITS**

- RAD4207ARB White, 150-168 MHz, Unity Gain Roof Mount Antenna
- RAD4208ARB Black, 150-168 MHz, Unity Gain Roof Mount Antenna
- RAD4209ARB Black, 142-160 MHz, Unity Gain Roof Mount Antenna
- RAD4210ARB White, 142-160 MHz, Unity Gain Roof Mount Antenna

**800 MHz ANTENNA KITS**

- RAF4217ARB White, 821-896 MHz, 3dB Gain Roof Mount Antenna
- RAF4218ARB Black, 821-896 MHz, 3dB Gain Roof Mount Antenna
- RAF4219ARB Black, 806-866 MHz, 3dB Gain Roof Mount Antenna
- RAF4220ARB White, 806-866 MHz, 3dB Gain Roof Mount Antenna

*The above diagram compares a Unity gain or 0dB antenna with 3dB and 6dB radiation patterns. From the diagram above you can see that it is possible to communicate with a cell site further away. There are a few traps however, these high frequency signals have a tendency to bounce off buildings in built up areas, and off mountains in a valley. This means a high gain antenna is best-used in country areas where wide flat plains are between you and the cell site. In mountainous areas or in city environments where the topography varies considerably, a high gain radiation pattern will not work as efficiently as a unity gain.*

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