

# Motorola Two-Way Portable and Mobile Radio Accessory and Battery Catalog



## PORTABLES

MT 2000™

MTS 2000™

LTS 2000™

## MOBILES

MCS 2000™

GTX

LCS 2000™

# *Motorola Dependability...*

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

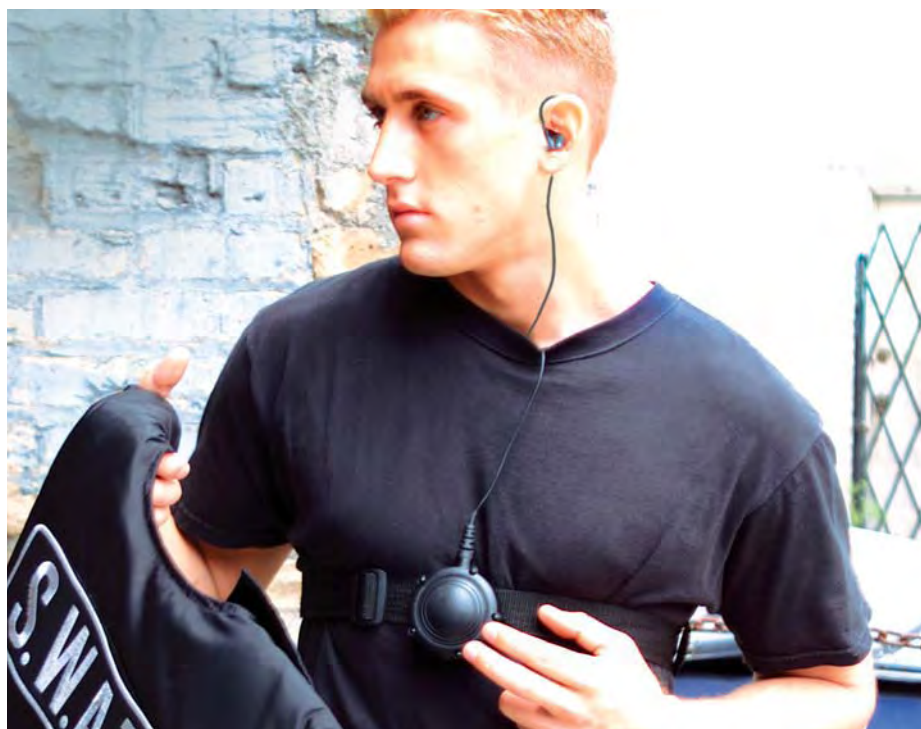
You likely chose your Motorola portable or mobile radio for its ease of use and exceptional reliability — certainly a sound business decision. Choosing Motorola Original<sup>®</sup> accessories for your radio is also the right call to make.

For starters, every Motorola Original<sup>®</sup> accessory is performance-matched for Motorola radios — designed, built and rigorously tested to the same quality standards. So you can be sure that every product in this catalog will perfectly complement your radio's performance.

What's more, insisting on Motorola Original<sup>®</sup> 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.

We're pleased to bring you this collection of proven Motorola Original<sup>®</sup> 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're all ready to help you work smarter, harder, with greater confidence.

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The Ear Microphone System has a miniature earpiece that 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.

## **How the Book is Organized**

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| Motorola Quality            |   |
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# MT 2000 and MTS 2000 portables

## Police

Whether in hot pursuit or investigating a cold case, communication can be made much easier with an Ear Microphone System with PTT and VOX Interface Module.

## 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.

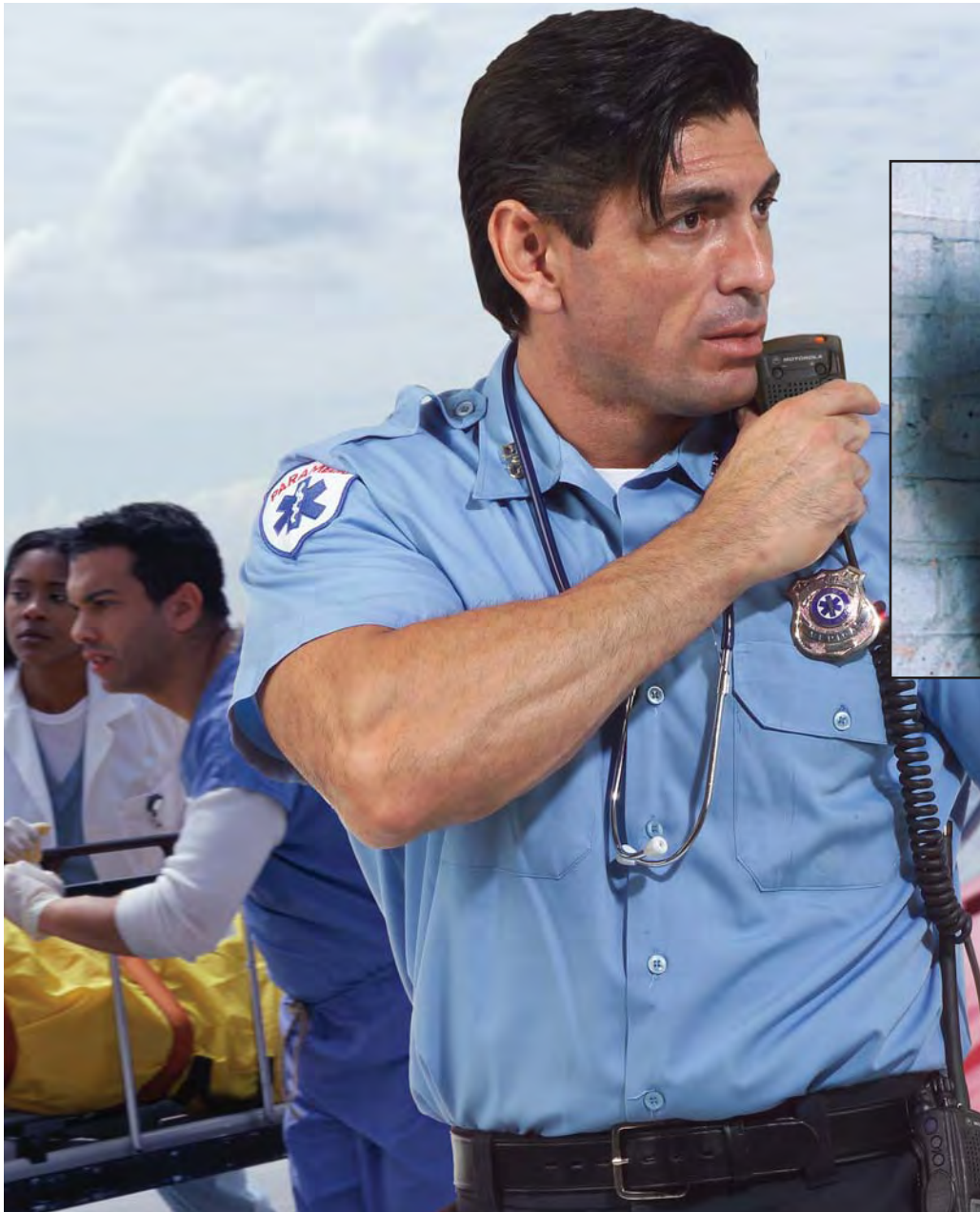
## Emergency Response

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 Remote Speaker Microphone lets professionals respond instantly without the need to reach for radio controls.





*"Come in Unit  
1211... the area is  
now secure and  
you're cleared  
for take-off."*

*programmable,  
with encryption capabilities...*

*MT 2000™/MTS 2000™ radios combine convenient features and full alphanumeric displays into a small, rugged package. Programmable function controls and radio-to-radio cloning provide enhanced user flexibility. And you can add even more features through FLASHport™ software upgrades as your communications needs change.*



# microphones and accessories

In the case.  
Out of the case.  
In. Out.  
It's more efficient  
to leave a radio  
in place and wear a  
microphone on a uniform  
jacket or shirt collar —  
and Motorola Original®  
audio accessories  
make it possible.

**NMN6191C**

**Noise-Cancelling Remote**

**Speaker Microphone is**

**the perfect choice when**

**you must be heard the**

**first time.**



# for tough conditions...

## 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.

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

## Remote Speaker Microphone with Emergency Button

The orange button on the microphone head can be used to signal that the operator needs help. This microphone offers high/low volume control and has a 3.5mm earjack on the microphone head. Emergency activation from the RSM is delayed until programmed Mandown Pre-alert and Post-alert delays elapse. Depending on radio model, factory defaults or previous programming could set the delay times for as long as 8 to 120 seconds.

- RMN5038A Remote Speaker Microphone with Emergency Button

## RSM Audio Accessories

The following earpieces are compatible with the Remote Speaker Microphone with Emergency Button RMN5038A.

- RLN4941A Receive-Only Earpiece with Translucent Tube and Rubber Eartip
- AARLN4885B Receive-Only Covered Earbud
- WADN4190B Receive-Only Flexible Earpiece

## 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
- NMN6244B\* Noise-cancelling Public Safety Microphone with 24 Inch Straight Cord
- NMN6243B\* Noise-cancelling Public Safety Microphone with 18 inch Straight Cord

## 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. 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.

- NTN7660C\* Mandown, Public Safety Tilt Switch

## Epaulet Straps

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



RLN4294A

RLN4295A



NMN6193C



RMN5038A



NTN7660C

\*Intrinsically Safe



## Surveillance Kits

Surveillance accessories allow the radio user to privately receive messages with the earpiece and are ideal when environments require discreet communication. The following surveillance accessories require the 3.5mm threaded adapter jack BDN6676D that attaches to the radio, unless being used with 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 Push-to-Talk Combined (2-Wire). Beige.            |
| BDN6669A*† | Extra Loud Earpiece with Microphone and Push-to-Talk Combined (2-Wire). Beige. |
| BDN6729A*  | Earpiece with Microphone and Push-to-Talk Combined (2-Wire). Black.            |
| BDN6731A*† | Extra Loud Earpiece with Microphone and Push-to-Talk 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  |

## 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 w/Microphone and PTT Combined (2-Wire). Beige. |
| RLN5312A | Earpiece w/Microphone and PTT Combined (2-Wire). Black. |

## 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. 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 for Noise Kits.

|             |  |
|-------------|--|
| NTN8370A    | Extreme Noise Kit. Includes 2 foam earplugs. For high-noise environments. Noise reduction = 24dB. Can be used with Clear Comfortable Earpieces, sold separately. |
| NTN8371A    | Low Noise Kit - Clear Acoustic Tube Assembly. Includes 1 rubber eartip. For low-noise environments, does not provide hearing protection.                         |
| 5080369E39† | Extra Loud Earphone. Beige.  |
| 5080370E91† | Extra Loud Earphone. Black.  |

### SURVEILLANCE REPLACEMENT ACCESSORIES

|            |  |
|------------|--|
| BDN6676D*  | 3.5mm Jack Adapter with Quick Disconnect Latch                                       |
| 5080384F72 | Replacement Foam Plugs. Pack of 50<br>For use with NTN8370A. Noise reduction = 24dB. |
| 5080370E97 | Replacement Standard Clear Rubber Eartips. Pack of 25.<br>For use with NTN8371A      |

## 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 NTN8371A and all 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   |



BDN6676D



From left to right,  
top to bottom:

RLN4765A  
RLN4762A  
RLN4764A  
RLN4761A  
RLN4763A  
RLN4760A

\*Intrinsically Safe

†Extra loud earphone (exceeds OSHA limits)



# discreet communication...



RLN4922A

Completely  
Discreet  
Earpiece.



RLN4922A



The Completely Discreet Earpiece is easy to use, just remove the earpiece from any standard 2 or 3-Wire 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 Wireless Earpiece Kit

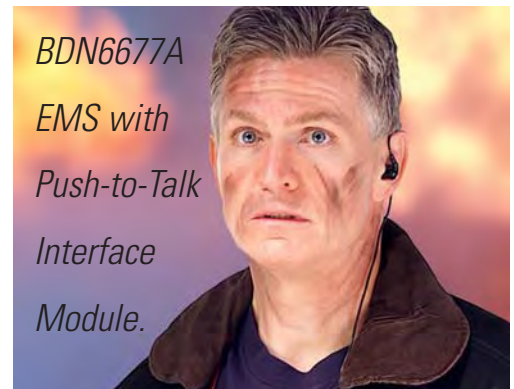
Enables users to communicate with ease, in full privacy, without visible equipment. This miniaturized receiver is discreetly hidden in the ear, where it can be worn comfortably for long periods of time. Small as it is, it offers a full range of audio functions including automatic squelch, automatic gain 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.
- RNN4005A Replacement 1.4 Volt Batteries. 6 per pack.

## Ear Microphone Systems (EMS)

This compact, lightweight unit picks up sound through bone vibrations in the ear canal. 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 clarity of sound. It's ideal for high-noise environments. Available in PTT or Voice-Activated (VOX). Interface Module is required and sold separately.

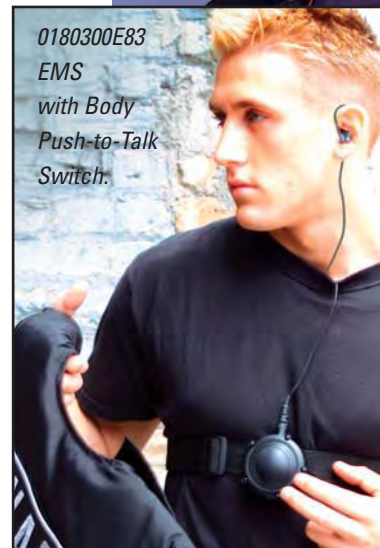
- BDN6677A\* EMS with PTT Interface. Black. For standard noise levels (up to 95dB).
- BDN6678A\* EMS with PTT Interface. Beige. For standard noise levels (up to 95dB).
- BDN6641A\* EMS with PTT Interface. Grey. For high noise levels (up to 105dB).
- BDN6708B\* Push-to-Talk Only Interface Module
- BDN6671B\* Push-to-Talk and Voice-Activated Interface Module



BDN6677A  
EMS with  
Push-to-Talk  
Interface  
Module.

### OPTIONAL ACCESSORIES FOR THE EMS

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



0180300E83  
EMS  
with Body  
Push-to-Talk  
Switch.



0180300E25

\*Intrinsically Safe

# audio

When seconds count,  
Motorola Original®  
audio accessories  
can help assure  
critical information gets  
communicated right the  
first time —  
quickly, clearly,  
and accurately.



*Security teams know  
that for dependability  
and all-day comfort, the  
Flexible Ear Receiver  
BDN6717B goes to the  
head of the class.*



## Flexible Ear Receiver

This receive-only earpiece contains a flexible earloop and speaker which rests external to the ear. Black, without volume control. It plugs directly into adapter BDN6676D or the earjack on speaker microphones.

|            |   |
|------------|---|
| BDN6719A   | Flexible Ear Receiver with 3.5mm Threaded Plug<br>Adapter BDN6676D required if not used with speaker microphones. |
| BDN6676D   | 3.5mm Jack Adapter with Quick Disconnect Latch  |
| 7580372E11 | Replacement Foam Ear Cushion for BDN6717B.  |

## Pellet-Style Earpieces

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

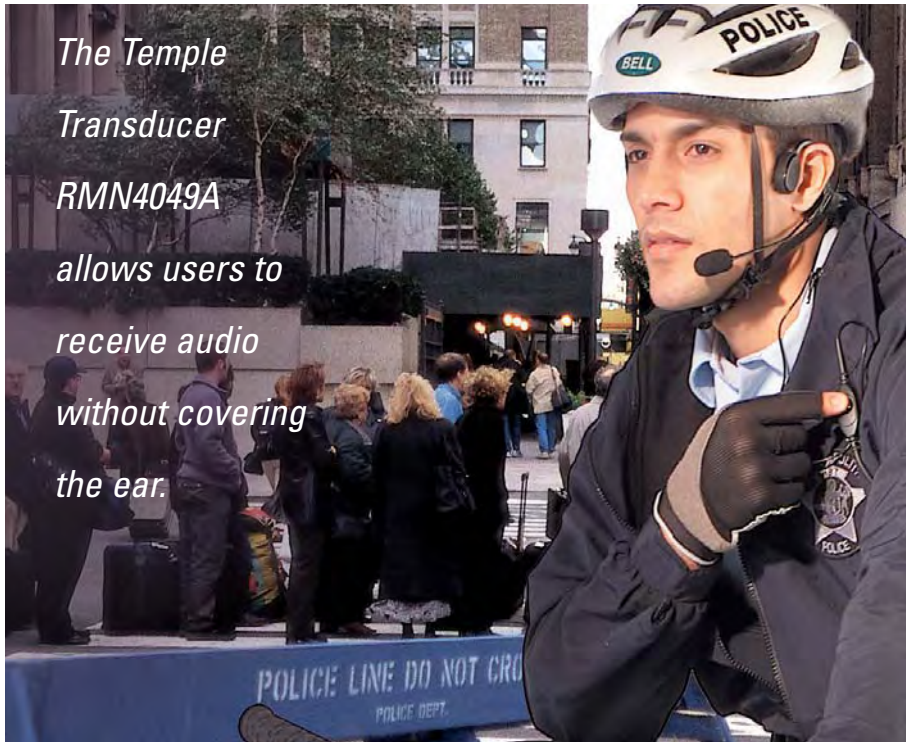
|            |  |
|------------|--|
| BDN6780A   | Earbud with Microphone and Push-to-Talk.<br>Requires adapter BDN6676D.                             |
| BDN6781A   | Earbud, receive-only. Requires adapter BDN6676D<br>unless being used with a speaker or microphone. |
| BDN6676D   | 3.5mm Jack Adapter with Quick Disconnect Latch   |
| 7580372E70 | Replacement Foam Cushion for Pellet Earpieces  |



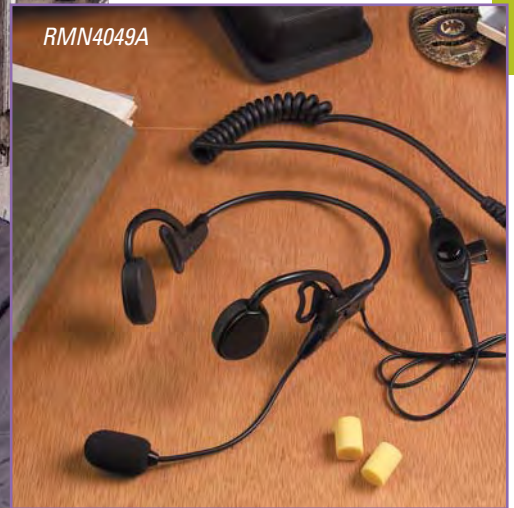
BDN6780A



# public safety essentials...



*The Temple  
Transducer  
RMN4049A  
allows users to  
receive audio  
without covering  
the ear.*



RMN4049A



RMN5049A

## 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. The sound vibration is transmitted through the surrounding human tissue and bone directly into the inner ear where it is received by the user. It features an In-line PTT and noise-cancelling boom microphone. The Temple Transducer enhances communication and safety by not impairing the user's hearing of the external sound environment, such as machinery and equipment, warning and fire alarms, the intercom, traffic and even casual conversations with co-workers.

RMN4049A\* Temple Transducer  
0180305J46 Training CD-ROM. For Ear Microphone System and Temple Transducer.

## Rugged Temple Transducer

The Rugged Temple Transducer comes equipped with all the features of the basic model. It sports a bigger Push-to-Talk button and a larger noise-cancelling boom microphone. It is fully adjustable for different head sizes, making it comfortable for extended-wear. Over-the-head band allows users to wear helmets, hardhats and other head gear – and it really stays in place! Water-resistant boom microphone is ideal for use in blowing rain and the secure cap on PTT prevents accidental activation in mission critical situations.

RMN5049A\* Rugged Temple Transducer

# audio

The same winning quality and dependability you see at professional football stadiums and motor speedways can be yours with Motorola Original® accessories.

## *The Racing Headset*

*RMN5015A lets users take charge... in spite of high background noise.*



RMN4052A

## *Racing Headset*

This heavy-duty headset can be worn with most hard hats. Ideal for high-noise environments; racing teams like CART® use it in the pits for dependable communication. Adapter Cable required.

- |          |   |
|----------|---|
| RMN5015A | Racing Headset with Noise-Cancelling Swivel Boom Microphone Behind-the-Head style. Noise reduction rating = 24dB. |
| BDN6673B | Adapter Cable for RMN5015A  |

## *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. Can be plugged directly into radio with 3.5mm adapter BDN6676D. Noise reduction = 24dB.  |
| RMN4057B | Receive-Only, Dual-Muff, Hardhat Headset. Mounts easily to hardhats with slots. For use with remote and public safety microphones with 3.5mm threaded jack. Can be plugged directly into radio with 3.5mm adapter BDN6676D. |
| BDN6676D | 3.5mm Jack Adapter with Quick Disconnect Latch  |

## *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. Audio adapter BDN6676D required.

- |          |  |
|----------|--|
| NMN6245A | Single-Muff Lightweight Headset with In-Line PTT Switch Requires audio adapter BDN6676D.   |
| NMN6246B | Ultra-Light Headset with Boom Microphone, In-Line PTT Switch Earbud style receiver. Requires audio adapter BDN6676D.                                   |
| NMN1020A | Lightweight Headset with Boom Microphone. Can be worn with helmet or safety glasses. Includes adapter cable NKN6498A. Requires audio adapter BDN6676D. |
| NKN6498A | Headset Adapter Cable for use with NMN1020A  |
| BDN6676D | 3.5mm Jack Adapter with Quick Disconnect Latch   |



NMN6245A



NMN6246B



RMN4056B



# clearly understood...

## Noise-Cancelling Headsets with Boom Microphone

Ideal for two-way communication in extremely noise environments. Dual-Muff, tactical headsets include 2 microphones on outside of 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 RKN4095A required. Hardhat not included.

- RMN4052A Tactical Headband Style Headset. Grey. Noise reduction = 24dB.
- RMN4053A Tactical Hardhat Mount Headset. Grey. Noise reduction = 22dB.
- RKN4095A Adapter Cable with In-Line Push-to-Talk  
For use with RMN4052A/RMN4053A.

### REPLACEMENT EARSEALS

- RLN4923B Replacement Earseals for RMN4051B/RMN4052A/RMN4053A  
Includes 2 snap-in earseals.

## Hardhat Mount Headset With Noise-Cancelling Boom Microphone

Ideal for two-way communication in high-noise environments, this headset mounts easily to hardhats with slots, or can be worn alone. Easily replaceable ear seals are filled with a liquid and foam combination to provide excellent sealing and comfort. 3-foot coiled cord assembly included. Noise reduction of 22dB. Intrinsically Safe (FM). Separate In-line PTT Adapter Cable RKN4095A required. Hardhat not included. Black.

- RMN4051B Two-way, Hardhat Mount Headset with Noise-Cancelling Boom Microphone
- RKN4095A In-line PTT Adapter Cable. For use with RMN4051B/RMN4052A/RMN4053A.

## 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 or situations.

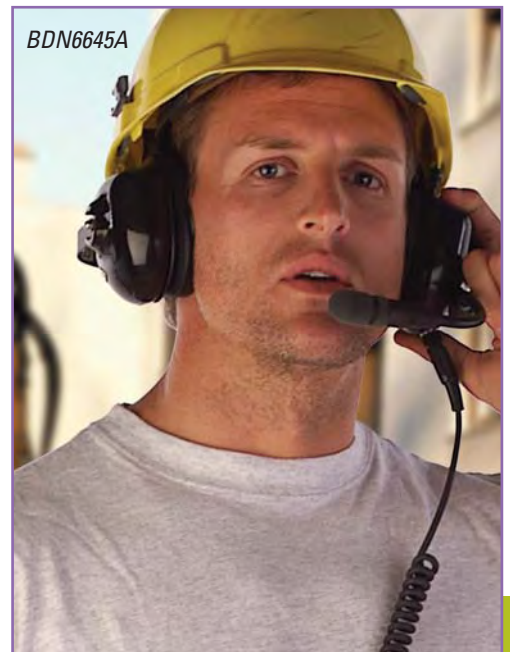
- NMN6258A\* Medium Weight, Dual-Muff, Over-the-Head Style Headset with In-line PTT  
Noise reduction rating = 24dB.
- NMN6259A\* Medium Weight, Dual-Muff, Behind-the-Head Style Headset  
Can be worn with hardhat.  
Noise reduction rating = 24dB.



## 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. Headsets are for use in noise levels up to 125dB. Heavy-duty headsets require radio adapter cable BDN6673B, sold separately.

- BDN6645A Push-to-Talk Headset with Boom Microphone  
Requires adapter cable BDN6673B. Noise reduction rating = 24dB.
- BDN6635B Voice-Activated (VOX) Headset with Boom Microphone  
Requires adapter cable BDN6673B. Noise reduction rating = 24dB.
- BDN6636B\* Voice-Activated (VOX) Headset with Throat Microphone  
Requires adapter cable BDN6673B. Noise reduction rating = 24dB.
- BDN6673B\* Radio Adapter Cable



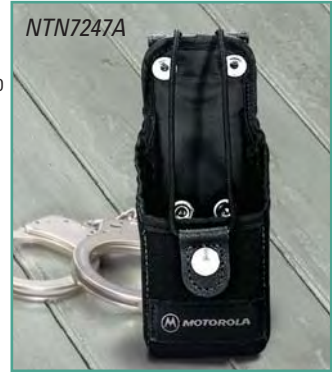
\*Intrinsically Safe

# carrying accessories

## Leather and Nylon Carrying Cases

A variety of carrying accessories are available for comfort and convenience. The carrying cases are available in sizes designed to fit radios with a battery and permit audio to be heard clearly. Motorola carry cases were developed to meet the demands of public safety and other users who operate in the most rigorous of environments.

Leather cases are constructed of top grain, 8 ounce leather and all stainless steel hardware. High-activity cases have a swivel D-ring button and belt loop. To remove case from belt loop, rotate case 180 degrees and slide case upward, out of the holder. Case stays on belt more securely in high-activity applications while allowing the radio to swing freely with body movements.



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

|  |          | <b>STANDARD BELT LOOP CASES</b>   |
|--|----------|---|
|  | NTN7238A | Leather Case with Belt Loop, D-rings and T-strap<br>For use with high-capacity battery.   |
|  | NTN7239A | Leather Case with Belt Loop, D-rings and T-strap<br>For use with ultra-high capacity battery.   |
|  | NDN4018B | Leather DTMF Case with Belt Loop, D-rings and Antenna Strap<br>For use with high and ultra-high capacity batteries.                   |
|  | NTN7247A | Nylon Case with Belt Loop and Strap<br>For use with high and ultra-high capacity batteries.   |
|  |          | <b>HIGH-ACTIVITY SWIVEL CASES</b>   |
|  | NTN8035B | Leather Case with 2.5 Inch High-Activity Swivel Belt Loop, D-rings and T-strap. For use with high-capacity battery.                   |
|  | NTN8037B | Leather Case with 3 Inch High-Activity Swivel Belt Loop, D-rings and T-strap. For use with high-capacity battery.                     |
|  | NTN8036B | Leather Case with 2.5 Inch High-Activity Swivel Belt Loop, D-rings and T-strap. For use with ultra-high capacity battery.             |
|  | NTN8038B | Leather Case with 3 Inch High-Activity Swivel Belt Loop, D-rings and T-strap. For use with ultra-high capacity battery.               |
|  | NDN4017B | Leather DTMF Case with 3 Inch High-Activity Swivel Belt Loop, D-rings and T-strap. For use with high and ultra-high capacity battery. |

## Carrying Accessories

|  |            | <b>T-STRAPS</b>   |
|--|------------|---|
|  | NTN7782A   | T-Strap for Leather Carry Cases   |
|  | NTN7376A   | T-Strap for Nylon Carry Cases   |
|  |            | <b>HIGH-ACTIVITY BELT LOOPS</b>   |
|  | NTN8039B   | 2.5 Inch High-Activity Swivel Belt Loop   |
|  | NTN8040B   | 3 Inch High-Activity Swivel Belt Loop   |
|  |            | <b>HIGH-ACTIVITY BUTTONS</b>  |
|  | 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  |
|  |            | <b>BELT CLIPS</b>   |
|  | 4205638V09 | 2.5 Inch Belt Clip, Black   |
|  | 4205638V07 | 3 Inch Belt Clip, Black Aluminum  |
|  |            | <b>BELT</b>   |
|  | 4200865599 | 1.75 Inch Wide Black Belt   |
|  |            | <b>CARRYING STRAP</b>   |
|  | NTN5243A   | Adjustable, Black Nylon Carrying Strap<br>Attaches to D-ring on case.                       |
|  |            | <b>D ATTACHMENT</b>   |
|  | NTN7484A   | D Attachment  |



NTN8039B

NTN8040B

NTN5243A

4200865599





*Universal*

*Chest Pack*

*HLN6602A*

*has adjustable*

*shoulder*

*and waist straps.*



RLN4815A

**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/RLN4570A

**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 HLN6602A/RLN4570A

**Universal 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.



RLN4570A

*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.*

**Waterproof Bag**

- HLN9985B Waterproof Bag with Large Strap

**Portable Radio Hangers**

Portable Radio Hangers slide over and hang from the vehicle door panel, allowing convenient, easy mounting. Radio belt clip required.

- TDN9327A Portable Radio Hanger for door panels up to 2.75 Inches.
- TDN9373A Portable Radio Hanger for door panels 2.75 to 3.25 Inches.



TDN9327A, TDN9373A

# batteries and chargers

## Battery Characteristics

NiCd batteries provide the

maximum number of

charge/discharge cycles

and are best suited for

temperature extremes.

NiMH batteries

provide more

talk-time per shift

and are less prone

to memory effect.

Li-ion batteries

offer the best

power-to-weight ratio

of all chemistries,

with no memory effect.



## Batteries

NTN7143CR

NTN7372AR

NTN7147AR

NTN7149BR

NTN7150AR

NTN7341AR

NTN7144CR

WPNN4013A

WPNN4037A

### PREMIUM NICKEL CADMIUM - NiCd

NiCd, 1200 mAh 7.5 Volt

NiCd, 1200 mAh 7.5 Volt. Intrinsically Safe.

NiCd, 1300 mAh 7.5 Volt. Intrinsically Safe.

NiCd, 1300 mAh 7.5 Volt. CSA.

NiCd, 1200 mAh 7.5 Volt. MSHA.

NiCd, 1400 mAh 7.5 Volt. Intrinsically Safe.

NiCd, 1500 mAh 7.5 Volt

### PREMIUM NICKEL METAL HYDRIDE - NiMH

NiMH, 2000 mAh 7.5 Volt

NiMH, 1900 mAh 7.5 Volt

Intrinsically Safe.

## IMPRES™ NiCd 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.

HNN9028AR

HNN9029AR

NiCd, 1500 mAh 7.5 Volt

NiCd, 1500 mAh 7.5 Volt. Intrinsically Safe.



# essential power...

## 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. Utilizing an enhanced charging algorithm that will help maximize the life of batteries and they can rapid-rate charge both NiCd and NiMH batteries.

- RPX4747A Compact Rapid-Rate Charger, 110 Volt, US Plug
- RPX4748A Compact Rapid-Rate Charger, 220 Volt, Euro Plug
- RPX4749B Compact Rapid-Rate Charger, 230 Volt, UK Plug

## Motorola Conditioning Charger (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 in 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.

- WPLN4090BR Charger Kit, 110 Volt AC. Includes single-unit base and 7 Volt adapter plate.
- WPLN4091BR Charger Kit, 220 Volt AC. Includes single-unit base and 7 Volt adapter plate.
- WPPN4002BR 110 Volt AC Single-Unit Base Charger Only  
Adapter plates sold separately.
- WPPN4006AR 220 Volt AC Single-Unit Base Charger Only  
Adapter plates sold separately.
- WPPN4004BR 7 Volt Adapter Plate
- WPPN4065BR Multi-Unit Conditioning Charger, 4-Station Base, 110 Volt.  
Adapter plates sold separately.



*WPPN4002BR  
Single-Unit Base Charger and  
power supply shown with  
optional Vehicular Power  
Adapter 3080384G15.*

## Vehicular Mounting

- 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 with 3 AH In-line fuse.

## Vehicular Power Adapter

- 3080384G15 DC Vehicular Power Adapter



*RLN4814A*



WPLN4111AR

## IMPRES™ Smart Energy Systems

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 the 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, 110 Volt, US Plug  
 WPLN4112AR IMPRES Single-Unit Charger, 220 Volt, Euro Plug  
 WPLN4113AR IMPRES Single-Unit Charger, 240 Volt, UK Plug  
 5889254E01 Battery Adapter. Required for NTN4538DR, NTN4593DR, NTN7014BR and NTN8818A batteries.

### IMPRES™ Multi-Unit Chargers

WPLN4108BR IMPRES Multi-Unit Charger, 110 Volt, US Plug  
 WPLN4109BR IMPRES Multi-Unit Charger, 220 Volt, Euro Plug  
 WPLN4110BR IMPRES Multi-Unit Charger, 240 Volt, UK Plug  
 4385922B01 Battery Adapter. Required for NTN4538DR, NTN4593DR, NTN7014BR and NTN8818A batteries.  
 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, percent rated capacity and battery voltage. Readout displays battery kit number, serial number and chemistry and the time remaining to complete the charge for NiCd and NiMH batteries. It also forecasts the number of cycles to next reconditioning and more.

WPLN4130A IMPRES Multi-Unit Charger with Display Modules, 110 Volt, US Plug  
 WPLN4131A IMPRES Multi-Unit Charger with Display Modules, 220 Volt, Euro Plug  
 WPLN4132A IMPRES Multi-Unit Charger with Display Modules, 240 Volt, UK Plug  
 4385922B01 Battery Adapter. Required for NTN4538DR, NTN4593DR, NTN7014BR and NTN8818A batteries.  
 NLN7967A Wall Mount for Multi-Unit Charger

### IMPRES™ Individual Charger Display Module

This module is compatible with the standard IMPRES™ Multi-Unit Charger 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.

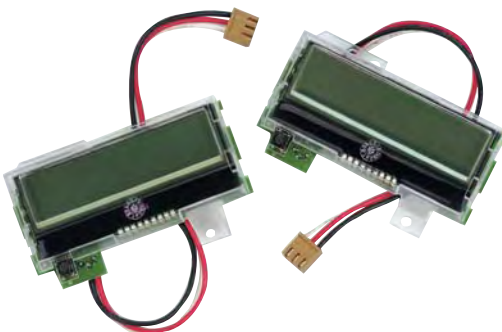
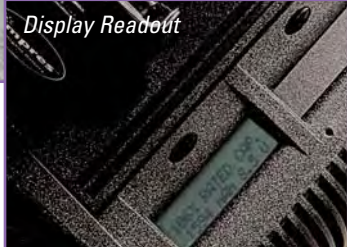
Note: Display Modules compatible with Multi-Unit Charger version 1.2 or earlier require a software flash update.

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.

### IMPRES™ CD

This CD provides an interactive guide to the IMPRES Charging System. It outlines the benefits and gives examples of application usage.

0180305J70 IMPRES CD



RLN5382A



# essential power...

## 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 battery chemistries (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> offers a 3-year warranty and includes serial printer\* port (RS-232).

|            |   |
|------------|---|
| WPLN4079BR | 6-Station BMS <sup>PLUS</sup> , 110 Volt AC, 50/60 Hz, US Plug  |
| WPLN4080BR | 6-Station BMS <sup>PLUS</sup> , 230 Volt AC, 50/60 Hz, Euro Plug  |
| WPLN4081BR | 6-Station BMS <sup>PLUS</sup> , 230 Volt AC, 50/60 Hz, UK Plug  |
| WPPN4085AR | BMS <sup>PLUS</sup> Li-ion Field Upgrade Kit<br>Upgrades WPLN4079AR, WPLN4080AR, WPLN4081AR.<br>Allows units to support Li-ion batteries. |
| NDN4005B   | 3-Station BMS <sup>PLUS</sup> , 110 Volt AC, 50/60 Hz<br>Does not support Li-ion or 3-cell batteries.                                     |
| NDN4006B   | 3-Station BMS, 230 Volt AC, 50/60 Hz<br>Does not support Li-ion or 3-cell batteries.  |

\*Compatible with the STAR Micronics SP200 series printers and other printers with STAR printer emulation. STAR Micronics printers are available through STAR Micronics distributors.

## Battery Maintenance System<sup>PLUS</sup> (BMS<sup>PLUS</sup>) Adapters

|          |  |
|----------|--|
| TDN9435C | Adapter. Compatible with NiCd batteries only.          |
| CDN6364A | Adapter. Compatible with both NiCd and NiMH batteries. |

## 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.

|            |   |
|------------|---|
| WPLN4124AR | BOS II, 4-Station, 90-264 Volt AC, US Plug. Adapter Plates Required.      |
| WPLN4125AR | BOS II, 4-Station, 90-264 Volt AC, Euro/UK Plug. Adapter Plates Required. |
| RL72403    | BOS II Battery Adapter.   |

- Quicktest™ diagnostic feature measures a battery's state of health in approximately 2 to 5 minutes
- Supports NiCd, NiMH, Li-ion and SLA batteries
- Increased power-programmable from 100 mAh to 4 Amps per station
- Programmable adapters allow customization of maintenance routines
- Proprietary reduction cycle restores NiCd and NiMH batteries
- Printer output for reports and labels with computer interface (Includes both 9-pin serial and 25-pin parallel ports)
- 100-Watt Universal Power Supply (110-240 VAC) provides up to 4 amps of power per station
- Interchangeable adapter plates accommodate nearly all Motorola two-way batteries and other major brands



NDN4005B



# chargers and antennas

Those on the road love the convenience of a Vehicular Travel Charger. And no wonder, it helps assure that your radios are always good to go when you are – and there's no need to hunt for an extra battery when you need to hit the road.



## Vehicular Travel Charger

A great traveling companion that ensures 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  
RLN5914A Universal Mounting Bracket for RLN4884B. Includes screws and nylon strap cord.

**TRAVEL CHARGER TRANSFORMERS**  
2580600E05 Transformer, US, 120 Volt  
2580600E06 Transformer, European, 230 Volt  
2580600E07 Transformer, UK, 230 Volt  
2580600E08 Transformer, Argentina, 220 Volt



## 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





# tested and tuned for performance...

## Flexible Whip

Flexible whip antennas have a one-piece finish and steel core for optimal radiation characteristics. They provide more comfort when the radio is worn on a belt.

- 8505241U05      6 Inch Flexible Whip Antenna, 403-520 MHz
- 8505241U03      7 Inch Flexible Whip Antenna, 806-869 MHz
- 8505241U04      7 Inch Flexible Whip Antenna, 764-870 MHz

## Helical

Helical antennas are sturdy and dependable for years of failsafe communication. 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.

- 8505644V01      6 Inch Helical Antenna, 136-151 MHz
- 8505644V02      6 Inch Helical Antenna, 151-162 MHz
- 8505644V03      6 Inch Helical Antenna, 162-174 MHz
- 8505644V04      3 Inch Helical Antenna, 403-435 MHz
- 8505644V05      3 Inch Helical Antenna, 435-470 MHz
- 8505644V06      3 Inch Helical Antenna, 470-520 MHz

## Dipole

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.

- NAF4000B      8 Inch Dipole, 806-869 MHz
- 8505884R02      8 Inch Dipole, 896-941 MHz

## Wideband

Wideband antennas are ideal when radios are used in different frequencies since one antenna will cover all ranges.

- 8505518V01      8 Inch Wideband Antenna, 136-174 MHz

## Stubby

This quarterwave stubby antenna is ideal when the radio is worn on a belt because the short antenna is non-obtrusive. This is a broad band antenna that can be used for both 800 MHz and 900 MHz applications.

- RAD4194A      3.55 Inch Stubby Antenna, 150-162 MHz
- 8505241U06      4 Inch Stubby Antenna, 806-941 MHz



# LTS 2000 portable

## Police

Whether in hot pursuit or investigating a cold case, communication can be made much easier with a CommPort™ Integrated Microphone/Receiver System.

## 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 Remote Speaker Microphone lets professionals respond instantly without the need to reach for the radio controls.







*"This is Officer  
Swanson...  
I need a tow truck  
at 1475 West Elm  
for abandoned  
vehicle towing."*

## *90 modes, 10 channels...*

*LTS 2000™ analog radios blend simple operation and key operating features into a compact, lightweight design.*

*Powerful yet easy to use, LTS 2000™ radios offer dual-mode operation that allows for communication on both conventional channels and private trunked channels — 90 modes in all. And the full APCO 16 feature set is included.*

# *microphones and audio*

*HMN9030A*

*Remote Speaker*

*Microphone is the*

*dependable choice*

*when you must*

*be heard the first time.*

In the case.

Out of the case.

In. Out.

It's more efficient

to leave a radio

in place and wear a

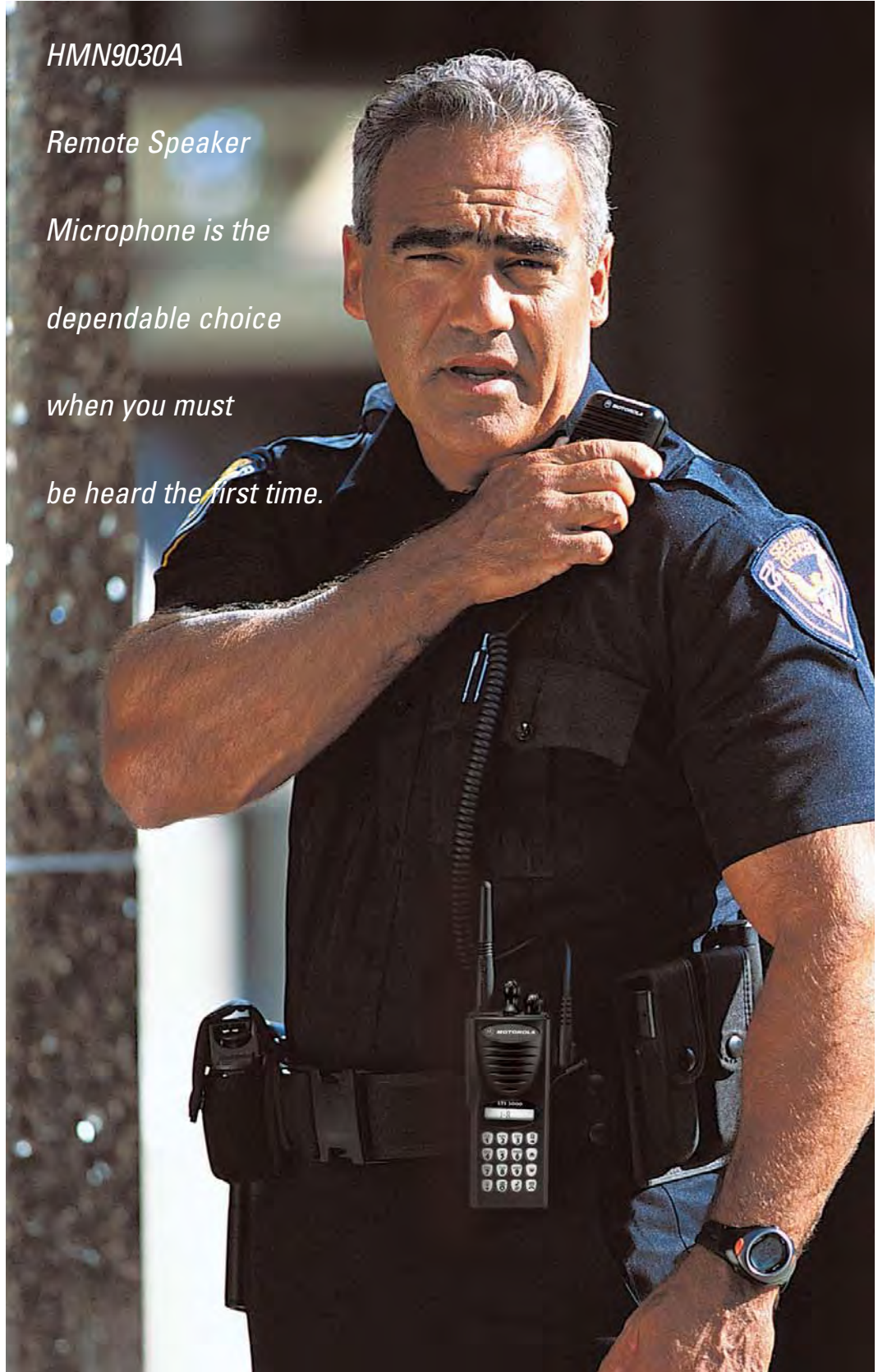
microphone on a uniform

jacket or shirt collar —

and Motorola Original®

audio accessories

make it possible.





# essential communication...

## Remote Speaker Microphone (RSM)

This compact, water-resistant unit allows radio users to talk and listen without removing the radio from the belt or case. Attaches securely onto shirt or collar with a swivel clip on the back of the unit. Includes 6-foot coiled cord and Push-to-Talk switch. Ideal for public safety personnel, or anyone who wears work gloves or uniforms. Intrinsicly Safe (FM).

HMN9030A\* Remote Speaker Microphone  
HKN9094A\* Replacement Coiled Cord for HMN9030A

## 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

## Surveillance Kits

Surveillance accessories allow the radio user to privately receive messages with the earpiece. They are ideal when environments require discreet communication.

### 1-WIRE SURVEILLANCE KIT

HMN9727B\* Receive-Only Earpiece with Standard Earphone (1-Wire). Beige.  
RLN4894A Receive-Only Earpiece with Standard Earphone (1-Wire). Black.  
HMN9752B\* Receive-Only Earpiece with Volume Control (1-Wire). Beige.

### 2-WIRE SURVEILLANCE KITS

HMN9754D\* Earpiece with Microphone and Push-to-Talk Combined (2-Wire). Beige.  
RLN4895A Earpiece with Microphone and Push-to-Talk Combined (2-Wire). Black.

## 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.

RLN5317A Earpiece with Microphone and Push-to-Talk Combined (2-Wire). Beige  
RLN5318A Earpiece with Microphone and Push-to-Talk Combined (2-Wire). Black



## 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. Clothing clip prevents accessory from being pulled from the ear due to body movement or head rotation. For optimal performance, Extra Loud Earphones and Clear Comfortable Earpieces, both sold separately, are recommended for Noise Kits.

|   |   |
|---|---|
| NTN8370A                                    | Extreme Noise Kit. Includes 2 foam earplugs. For high-noise environments. Noise reduction = 24dB.                                       |
| NTN8371A                                    | Low Noise Kit - Clear Acoustic Tube Assembly Includes 1 rubber eartip. For low noise environments, does not provide hearing protection. |
| 5080369E39 <sup>†</sup>                     | Extra Loud Earphone. Beige.   |
| 5080370E91 <sup>†</sup>                     | Extra Loud Earphone. Black.   |
| <b>SURVEILLANCE REPLACEMENT ACCESSORIES</b> |   |
| 5080384F72                                  | Replacement Foam Plugs. Pack of 50 For use with NTN8370A. Noise reduction rating = 24dB.  |
| 5080371E73                                  | Replacement Foam Plugs. Pack of 25 For use with NTN8371A.   |
| 5080370E97                                  | Replacement Standard Black Rubber Eartips. Pack of 25. For use with NTN8371A.   |

## 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 NTN8371A and all 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   |

## Flexible Ear Receiver

This black, receive-only earpiece contains a flexible earloop and speaker which rests external to the ear.

|            |                              |
|------------|------------------------------|
| BDN6720A   | Flexible Ear Receiver        |
| 7580372E11 | Replacement Foam Ear Cushion |

## Lightweight Headset

Lightweight headsets provide high-clarity, discreet two-way communication, while maintaining the comfort necessary for extended-wear in moderate noise environments. Adjusts for left or right ear operation. No adapter required.

|           |   |
|-----------|---|
| RMN4016A* | Single-Muff, Adjustable, Lightweight Headset with Boom Microphone and In-line PTT |
| REX4648A  | Replacement Foam Earpad and Windscreen for RMN4016A                               |

\*Intrinsically Safe

<sup>†</sup>Extra Loud Earphone (exceeds OSHA limits)



BDN6720A



# discreet communication...



*RLN4922A*  
*Completely*  
*Discreet*  
*Earpiece.*



*The Completely Discreet Earpiece is easy to use, just remove the earpiece from any standard 2 or 3-Wire 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 Wireless Earpiece Kit

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.
- RNN4005A Replacement 1.4 Volt Batteries. 6 per pack.

## Ear Microphone Systems (EMS)

This compact, lightweight unit picks up sound through bone vibrations in the ear canal. 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 clarity of sound. It's ideal for high-noise environments. Available in PTT or Voice-Activated (VOX). Interface Module is required and sold separately.

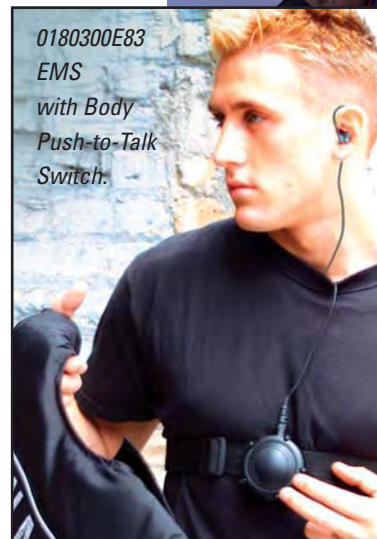
- BDN6646C\* EMS with PTT Interface. For standard noise levels (up to 95dB).
- BDN6706B\* EMS with Voice-Activated and PTT Interface For standard noise levels (up to 95dB).

### OPTIONAL ACCESSORIES FOR THE EMS

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



*BDN6646C*  
*EMS with*  
*Push-to-Talk*  
*Interface*  
*Module.*



*0180300E83*  
*EMS*  
*with Body*  
*Push-to-Talk*  
*Switch.*



0180300E25

\*Intrinsically Safe

# carrying accessories

You'd be surprised how much time can be saved in emergencies when each user's radio is always in the same place — made easy by this versatile case selection of

## Leather and Nylon Carrying Cases

A variety of carrying accessories are available for comfort and convenience. The carrying cases are available in sizes designed to fit radios with a battery and permit audio to be heard clearly. Motorola carry cases were developed to meet the demands of public safety and other users who operate in the most rigorous of environments.

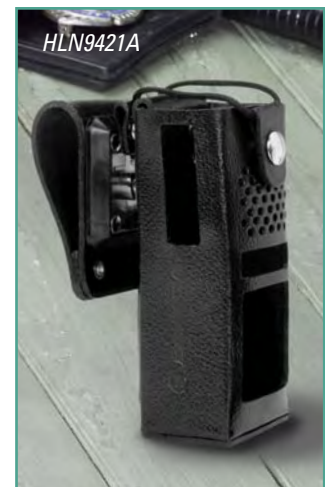
Leather cases are constructed of top grain, 8 ounce leather and all stainless steel hardware. High-activity cases have a swivel D-ring button and belt loop. To remove case from belt loop, rotate case 180 degrees and slide case upward, out of the holder. Case stays on belt more securely in high-activity applications while allowing the radio to swing freely with body movements.

- STANDARD BELT LOOP CASES**
- HLN9428A Leather DTMF Case with Belt Loop and D-rings  
For use with standard capacity battery.
  - HLN9429A Leather DTMF Case with Belt Loop and D-rings  
For use with FM approved 1100 mAh battery.
  - HLN9431A Leather DTMF Case with Belt Loop and D-rings  
For use with FM approved 600 mAh slim battery.

- HIGH-ACTIVITY SWIVEL CASES**
- HLN9421A Leather DTMF Case with High-Activity Swivel Belt Loop  
For use with standard battery.
  - HLN9426A Leather DTMF Case with High-Activity Swivel Belt Loop  
For use with FM approved 1100 mAh battery.
  - HLN9427A Leather DTMF Case with High-Activity Swivel Belt Loop  
For use with FM approved 600 mAh battery.

## Motorola Original® Carrying Accessories

- carry accessories
- NTN8039B 2.5 Inch High-Activity Swivel Belt Loop
  - NTN8040B 3 Inch High-Activity Swivel Belt Loop
- BELT CLIPS**
- HLN9724A 2.5 Inch Belt Clip
  - HLN8255B 3 Inch Spring Action Belt Clip
- CARRYING STRAP**
- NTN5243A Adjustable, Black Nylon Shoulder Strap  
Attaches to D-ring on case.
- SWIVELLER**
- TDN1002A Swiveller. Includes holster belt and strap.
- MOLDED CARRY HOLDERS**
- HLN9076B Molded Carry Holder. For high-capacity battery.
  - HLN8044A Molded Carry Holder Strap. Snap closure.



NTN5243A



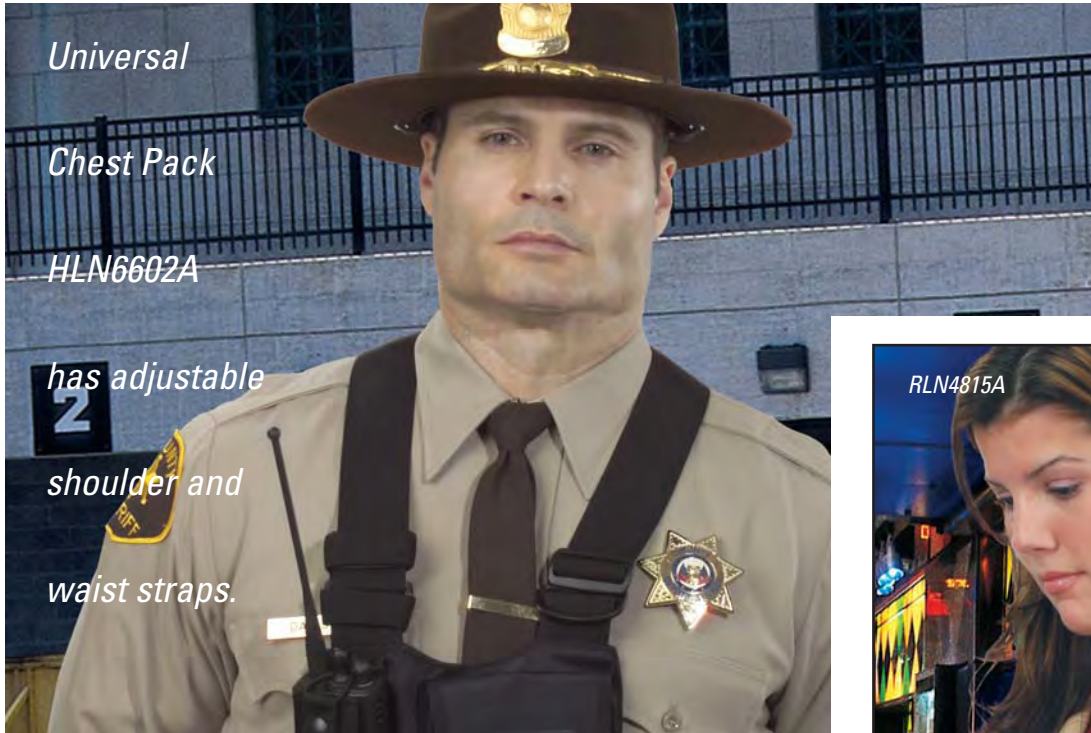
NTN8039B



TDN1002A

NTN8040B





### 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/RLN4570A

### 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 HLN6602A/RLN4570A

### Universal 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.

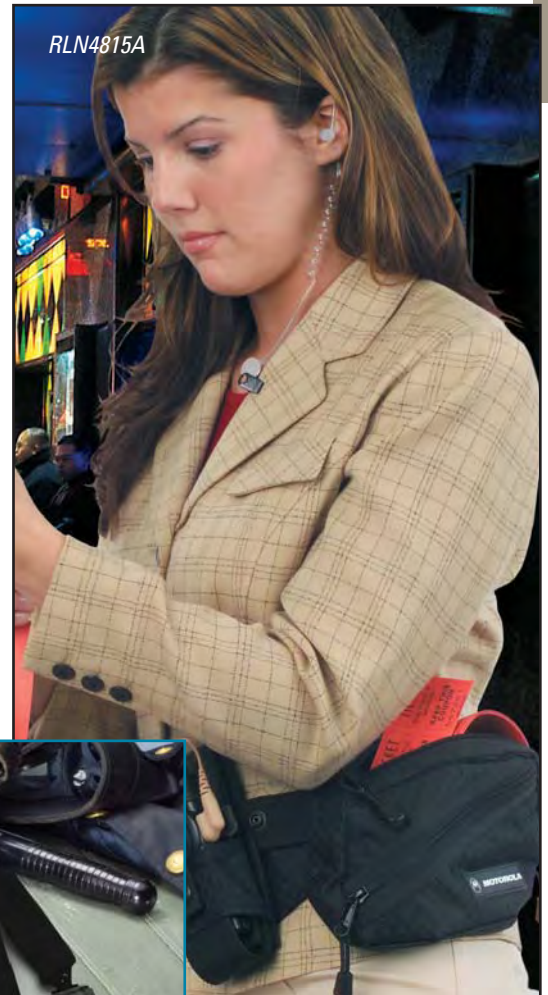
### Waterproof Bag

- HLN9985B Waterproof Bag with Large Strap

### Portable Radio Hangers

Portable Radio Hangers slide over and hangs from the vehicle door panel, allowing convenient, easy mounting. Radio belt clip required.

- TDN9327A Portable Radio Hanger for door panels up to 2.75 inches.
- TDN9373A Portable Radio Hanger for door panels 2.75 to 3.25 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.*



TDN9327A, TDN9373A

# batteries and chargers

## Battery Characteristics

NiCd batteries provide the maximum number of charge/discharge cycles and are best suited for temperature extremes.



NiMH batteries

provide more

talk-time per shift

and are less prone

to memory effect.

Li-ion batteries

offer the best

power-to-weight ratio

of all chemistries,

with no memory effect.

## Batteries

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

### PREMIUM NICKEL CADMIUM - NiCd

- HNN9808B NiCd, 600 mAh 7.5 Volt. Intrinsically Safe, Slim.
- HNN9628B NiCd, 1200 mAh 7.5 Volt
- HNN9701A NiCd, 1100 mAh 7.5 Volt. Intrinsically Safe.



## Single-Unit, Rapid-Rate Chargers

The Single-Unit Intellicharger utilizes an enhanced charging algorithm that helps maximize the life of batteries. It can rapid-rate charge both NiCd and NiMH batteries in approximately one hour.

- HTN9042A Rapid-Rate Intellicharger, 120 Volt, US Plug
- HTN9043A Rapid-Rate Intellicharger, 220 Volt, Euro Plug
- HTN9044A Rapid-Rate Intellicharger, 240 Volt, UK Plug



## Single-Unit Chargers

Single-unit standard chargers can charge NiCd batteries in approximately 16 hours.

- HTN9702A Single-Unit Standard Charger, 110 Volt, US Plug
- HTN9804A Single-Unit Standard Charger, 220 Volt, Euro Plug
- HTN9805A Single-Unit Standard Charger, 240 Volt, UK Plug



## Multi-Unit Chargers (MUC)

Multiple unit chargers can be wall or rack mounted and are ideal for multiple shift operations. They can charge up to 6 batteries simultaneously and are available in a variety of voltages for domestic and international applications.

- HTN9060A 6-Pocket, 1-Hour Rapid-Rate Charger 110 Volt - NiCd and NiMH batteries.
- HTN9061A 6-Pocket, 90-Minute Rapid-Rate Charger 220 Volt - NiCd and NiMH batteries.
- HTN9062A 6-Pocket, 90-Minute Rapid-Rate Charger 240 Volt - NiCd and NiMH batteries.

### WALL MOUNT BRACKETS

- HLN9293A Wall Mount Bracket For 90-Minute Multi-Unit Chargers
- HLN9944A Wall Mount Bracket for Multi-Unit Chargers





# essential power...

## Motorola Conditioning Charger (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.

- WPPN4002BR Base Charge Unit, 110 Volt AC. Adapter plates sold separately.
- WPPN4006AR Base Charge Unit, 220 Volt AC. Adapter plates sold separately.
- WPPN4005CR Adapter Plate Only, 7 Volt
- WPLN4088CR Charger Kit, 110 Volt AC. Includes Single-Unit base and 7 Volt adapter plate.
- WPLN4089CR Charger Kit, 220 Volt AC. Includes Single-Unit base and 7 Volt adapter plate.
- WPPN4065BR Multi-Unit Conditioning Charger, 4-Station Base, 110 Volt  
Adapter plates sold separately.



## Vehicular Mounting

- RLN4814A Vehicular Mounting Bracket and DC Hard Wire Cable  
For Single-Unit Motorola Conditioning Chargers.
- 3080384M21 DC Hard Wire Cable with 3 AH In-line fuse.



RLN4814A

## Vehicular Power Adapter

- 3080384G15 Vehicular Power Adapter

## Vehicular Travel Charger

A great traveling companion that ensures constant communication while on the road. Allows rapid charging of the battery while using the radio. Users can talk immediately once the charger is connected and transmit from a previously "dead" battery in just 5 minutes. Includes voltage regulated adapter, custom charger base, mounting bracket and coil cord. Ideal for public safety, utility and construction markets.

- RLN4833A Vehicular Travel Charger
- RLN5914A Travel Charger Mounting Bracket Kit  
Includes screws and nylon strap cord.



RLN4833A

### TRAVEL CHARGER TRANSFORMERS

- 2580600E05 Transformer, US, 120 Volt
- 2580600E06 Transformer, European, 230 Volt
- 2580600E07 Transformer, UK, 230 Volt
- 2580600E08 Transformer, Argentina, 220 Volt

## Vehicular Charger Adapter

The Vehicular Charger Adapter is designed to easily charge batteries in a vehicle by adapting a single-unit, rapid-rate charger to the vehicular power adapter. Ideal for frequent travelers.

- HLN9719A Vehicular Charger and Bracket, 12 Volt  
For use with HTN9042A, HTN9043A, HTN9044A.



HLN9719A

# chargers



## 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 battery chemistries (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> offers a 3-year warranty and includes serial printer\* port (RS-232).

|            |  |
|------------|--|
| WPLN4079BR | 6-Station BMS <sup>PLUS</sup> , 110 Volt AC, 50/60 Hz, US Plug                             |
| WPLN4080BR | 6-Station BMS <sup>PLUS</sup> , 230 Volt AC, 50/60 Hz, Euro Plug                           |
| WPLN4081BR | 6-Station BMS <sup>PLUS</sup> , 230 Volt AC, 50/60 Hz, UK Plug                             |
| WPPN4085AR | BMS <sup>PLUS</sup> Li-ion Field Upgrade Kit. Upgrades WPLN4079AR, WPLN4080AR, WPLN4081AR. |
| NDN4005B   | Allows units to support Li-ion batteries.<br>3-Station BMS, 110 Volt AC, 50/60 Hz          |
| NDN4006B   | Does not support Li-ion or 3-cell batteries.<br>3-Station BMS, 230 Volt AC, 50/60 Hz       |
|            | Does not support Li-ion or 3-cell batteries.   |

\*Compatible with the STAR Micronics SP200 series printers and other printers with STAR printer emulation. STAR Micronics printers are available through STAR Micronics distributors.

## Battery Maintenance System<sup>PLUS</sup> (BMS<sup>PLUS</sup>) Adapters

|          |  |
|----------|--|
| TDN9437A | Adapter, for use with HNN9701A batteries |
| TDN9662A | Adapter, for use with HNN9628A           |
| TDN9438A | Adapter, for use with HNN9808B           |



NDN4005B





### 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.

|            |   |
|------------|---|
| WPLN4124AR | BOS II, 4-Station, 90-264 Volt AC, US Plug. Adapter Plates Required.      |
| WPLN4125AR | BOS II, 4-Station, 90-264 Volt AC, Euro/UK Plug. Adapter Plates Required. |
| RL71883    | Standard Adapter  |

- Quicktest™ diagnostic feature measures a battery's state of health in approximately 2 to 5 minutes
- Supports NiCd, NiMH, Li-ion and SLA batteries
- Increased power-programmable from 100mAh to 4 Amps per station
- Programmable adapters allow customization of maintenance routines
- Proprietary reduction cycle restores NiCd and NiMH batteries
- Printer output for reports and labels with computer interface (Includes both 9-pin serial and 25-pin parallel ports)
- 100-Watt Universal Power Supply (110-240 VAC) provides up to 4 amps of power per station
- Interchangeable adapter plates accommodate nearly all Motorola two-way batteries and other major brands batteries

## Antenna Characteristics

Heliflex antennas are engineered for maximum output and coverage.

Stubby antennas are non-obtrusive, ideal for wearing the radio on a belt.

Whip antennas are one-piece with a steel core for optimal radiation.





# *tuned and tested...*

## *Flexible Whip*

Flexible whip antennas have a one-piece finish and steel core for optimal radiation characteristics. They provide more comfort when the radio is worn on a belt.

8505241U03      7 Inch Flexible Whip Antenna, 806-869 MHz

## *Stubby*

This quarterwave stubby antenna is ideal when the radio is worn on a belt because the short antenna is non-obtrusive. This is a broadband antenna that can be used for both 800 MHz and 900 MHz applications.

8505241U06      4 Inch Stubby Antenna, 806-941 MHz



# MCS 2000 mobile

## Public Safety

When professionals need their hands free for important tasks, a Visor Microphone and foot-operated Push-to-Talk switch are the right solution.

## Customer Service

One day you're in the field. The next day has you behind a desk. Control Station Accessories make it easy to convert your radio for inside use.

## Private Transportation

Maximizing passenger safety is a number one priority, and an Emergency Switch is a ready solution when an alarm or help message needs to be sent.

## Delivery Fleets

Hear one number wrong, and an important package won't get where it's needed on time. An External Speaker can help make everything clear under noisy conditions.







*full-featured analog operation with the features users want most...*

*MCS 2000™ mobile radios can deliver both narrow band and broad band operation in a compact, space-saving footprint. All models are compatible with Motorola MTS 2000 portable radios, so they can serve as the heart of a truly integrated solution.*

# audio and control station



## Microphones and Accessories

- HMN4069E Standard White Palm Microphone
- HMN4072E Classic White Palm Microphone
- NMN6210D 3 x 4 Button Keypad Microphone  
Includes three additional programmable buttons.
- GMN6147B Noise-Cancelling Microphone  
Includes three additional programmable buttons.
- HMN1085B Handset with Hang Up Cup

## Microphone Adapter Cables

Adapter cables allow a second microphone to be added via a mobile accessory connector. This requires adding a second Push-to-Talk microphone HMN4069E or HMN4072E, both sold separately.

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

## Hands-Free Mobile Accessories

The Gooseneck Push-to-Talk and Foot Switch Push-to-Talk allow mobile users hands-free communication options.

- FMN1611C Dash Mount Visor Microphone  
Requires GLN7279A or GLN7278B.
- HKN6116A 1-Foot Adapter Cable
- HMN1073A Remote Mount Visor Microphone  
Requires GLN7279A or GLN7278B.
- GLN7279A Gooseneck Push-to-Talk  
Attaches to vehicle steering column.
- GLN7278B Foot Switch Push-to-Talk

## Siren and Public Address Speakers

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

## INSTALLATION ACCESSORIES

- HLN6356B Installation Hardware Kit
- GKN6263A Ignition Sense Cable



HSN4038A



HMN1073A



Control Station accessories make the MCS 2000 a desktop command center. From left to right are Desktop Microphone HMN1038E, Control Station Power Supply HPN4007A, Control Station Tray HLN6405A.



HMN3000B



HLN6405A

### Control Station Accessories

- HMN1038E Desk Microphone. Beige.
- HMN3000B Desk Microphone. Black.
- HLN6404A Desk Tray with Speaker, Low Power  
For use with Models II and III.
- HLN6405A Desk Tray without Speaker, Low Power  
For use with Model I.
- HPN4008B Power Supply, Low Power
- HLN6580B Desk Tray with Speaker, Mid Power  
For use with Models II & III.
- HLN6581A Desk Tray without Speaker, Low Power  
For use with Model I.
- HPN4007A Power Supply, High Power

### Emergency Switches

These switches enable the user to send an emergency message to a console where their unit ID can be displayed and an alarm sounded.

- GLN7208A Emergency Push Button
- HLN5113B Emergency Foot Switch

### Miscellaneous Accessories

- GLN7282A Alarm Buzzer
- HLN6642A Alarm Relay and Cable
- HLN6372A Key Lock Mount
- HKN6128A Ignition Switch Cable
- GKN6262B Car Radio Mute Cable



HLN5113B

# cables and antennas

A communication system is only as good as the mobile antennas used to transmit and receive — so whenever lives are on the line Motorola Original® accessories should be the go-to choice.



## Remote Mount Kits

Converts a low or mid-power radio from dash to remote mount. 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. For use with Model I.  
H1635A Remote Mount Retrofit Kit. For use with Model 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

## Power Cables

HKN4191B 10-Foot, Low/Mid Power Cable  
HKN4192B 20-Foot, Low/Mid Power Cable





HAE4013A

HAE4003A

HAF4002A

RAF4220A

### Antennas

HAF4002A  
RRA4983A

**800 MHz**

806-900 MHz, 1/4 Wave Roof Mount Antenna  
806-900 MHz, 3dB, Roof Mount Antenna

RRA4935A  
RAF4003ARM

**900 MHz**

890-960 MHz, 3dB Roof Mount Antenna with 14 ft. Cable  
890-960 MHz, 3dB Roof Mount Antenna with 22 ft. Low Loss Cable

HAD4006A  
HAD4007A  
HAD4008A  
HAD4009A  
RAD4010ARB

**VHF**

136-144 MHz, 1/4 Wave, Roof Mount Antenna  
144-152 MHz, 1/4 Wave, Roof Mount Antenna  
150.8-162 MHz, 1/4 Wave, Roof Mount Antenna  
162-174 MHz, 1/4 Wave, Roof Mount Antenna  
136-174 MHz, 3dB, Roof Mount Antenna

HAE4002A  
HAE4003A  
HAE4004A  
HAE4010A  
HAE4011A  
HAE4012A  
HAE4013A

**UHF**

403-430 MHz, 1/4 Wave, Roof Mount Antenna  
450-470 MHz, 1/4 Wave, Roof Mount Antenna  
470-512 MHz, 1/4 Wave, Roof Mount Antenna  
406-420 MHz, 3.5dB, Roof Mount Antenna  
450-470 MHz, 3.5dB, Roof Mount Antenna  
470-495 MHz, 3.5dB, Roof Mount Antenna  
494-512 MHz, 3.5dB, Roof Mount Antenna



3080384M48

### Antenna Mounts

3080384M44 Black Magnetic With 12 ft. RG58A/U Cable, Mini-UHF Crimp  
3080384M45 Chrome Magnetic With 12 ft. RG58A/U Cable, Mini-UHF Crimp  
3080384M46 Chrome Trunk Mount With 17 ft. RG58A/U Cable, Mini-UHF Crimp  
3080384M47 Black Trunk Mount With 17 ft. RG58A/U Cable, Mini-UHF Crimp  
3080384M48 3/4 Roof Mount With 17 ft. RG58A/U Cable, Mini-UHF Crimp

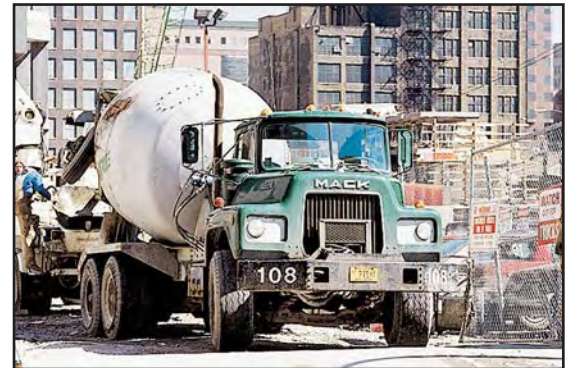
### Low Profile Antennas

**UHF**

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

**800 MHz**

RAF4217A White 821-896 MHz, 3dB Gain Antenna  
RAF4218A Black 821-896 MHz, 3dB Gain Antenna  
RAF4219A Black 806-866 MHz, 3dB Gain Antenna  
RAF4220A White 806-866 MHz, 3dB Gain Antenna



### Low Profile Antenna Kits

Includes 3/4 Brass Mount and 17- foot RG58U Solid Center Conductor Cable.

**UHF**

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

**800 MHz**

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

# GTX and LCS 2000 mobiles

## Public Safety

When professionals need to transmit numeric data as well as voice, a Full Size DTMF Microphone is easy to use and comfortable to hold.

## Customer Service

One day you're in the field. The next day has you behind a desk. Control Station Accessories make it easy to convert your radio for inside use.

## Private Transportation

Maximizing passenger safety is a number one priority, and an Emergency Switch is a ready solution when an alarm or help message needs to be sent.

## Delivery Fleets

Hear one number wrong, and an important package won't get where it's needed on time. An External Speaker can help make everything clear under noisy conditions.







*simple two-way communication with capabilities that are anything but...*

*GTX and LCS 2000™ mobile radios are easy to use, yet pack a lot of performance into their compact, space-saving footprint. Offering both local and wide-area coverage, these models deliver advanced functionality that meets a variety of communication needs.*

# audio and control station

## Microphones

|          |  |
|----------|--|
| HMN3220B | Standard Compact Microphone            |
| HMN1035C | Full Size Palm Microphone              |
| HMN3013A | Non-Backlit, Full Size DTMF Microphone |

## Mounting Bracket

|          |                     |
|----------|---------------------|
| GLN7317A | Non-locking Bracket |
|----------|---------------------|

## Cables

|          |                       |
|----------|-----------------------|
| GKN6270A | Standard Power Cable  |
| GKN6271A | Ignition Switch Cable |

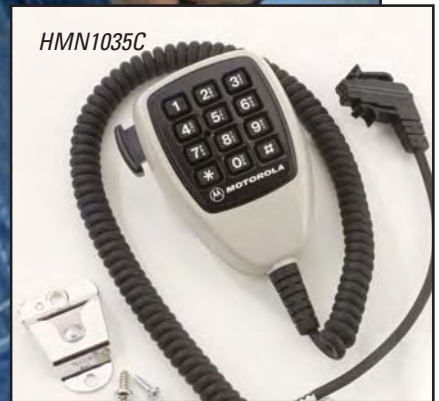
## Alarms

|           |                                |
|-----------|--------------------------------|
| GKN6272AR | External Alarm Relay Cable Kit |
| GLN7323A  | Emergency Foot Switch          |

## External Speaker

Provides audio for high ambient noise environments.

|          |                           |
|----------|---------------------------|
| FSN5510A | 7.5 Watt External Speaker |
| HLN6356B | Installation Hardware Kit |





Control Station accessories make the LCS 2000 mobile a desktop command center. Shown here is the Low Power Control Station Package HLN3067B which includes adapter cable, base tray, black desk micro-  
phone and power supply.



### Control Station

Converts the mobile radio for desktop use for dispatch purposes. Includes adapter cable, base tray, black desk microphone and power supply.

HLN3067B Low Power Control Station Package

#### CONTROL STATION ACCESSORIES

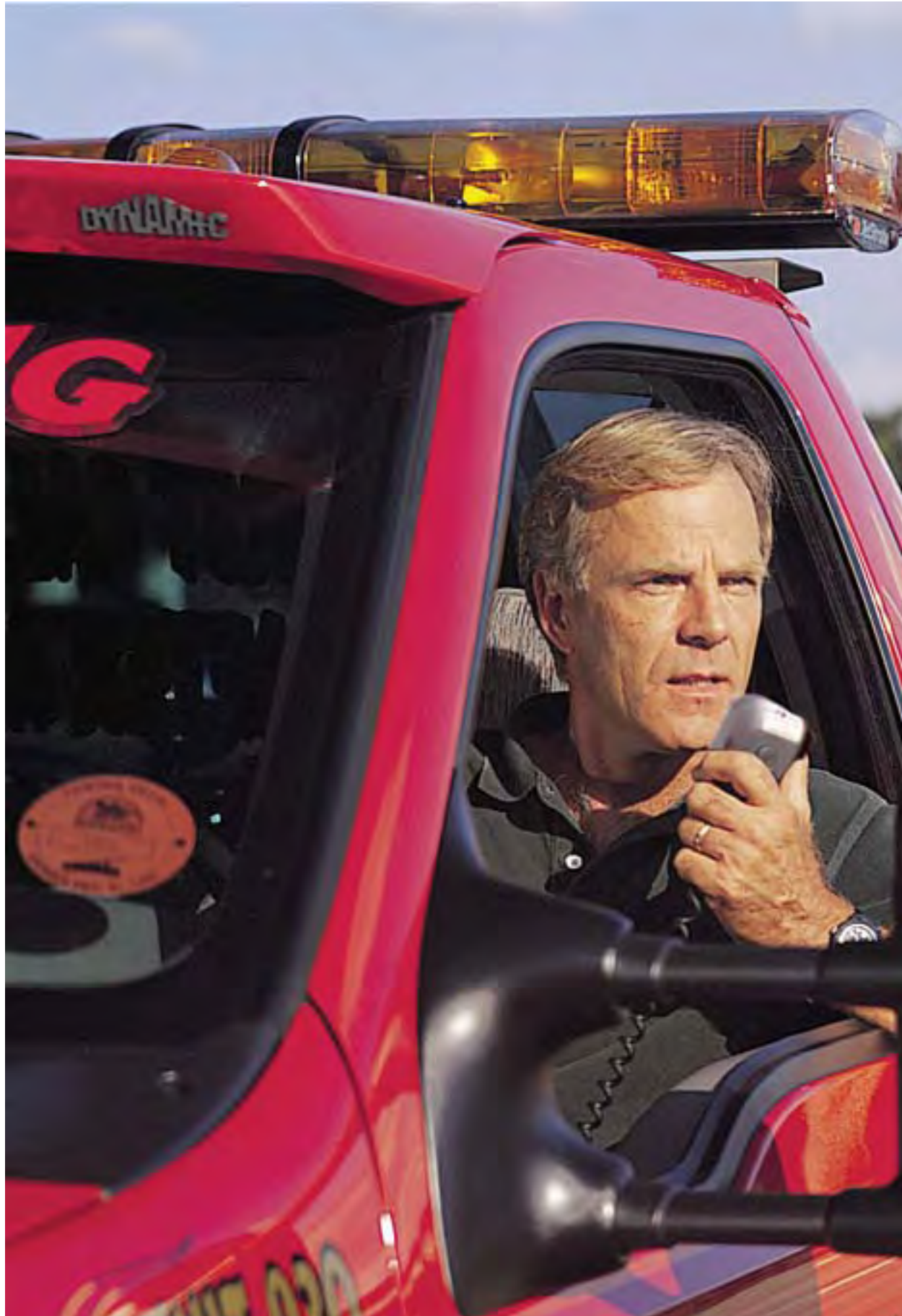
- HPN4008B Power Supply, Low Power
- HLN6405A Desk Tray without Speaker
- HMN3000B Desk Microphone
- HKN9088B Adapter Cable



HLN6405A

# *cables and antennas*

A communication system is only as good as the mobile antennas used to transmit and receive — so whenever lives are on the line Motorola Original® accessories should be the go-to choice.







RRA4935A

HAF4002A

RAF4220A



3080384M48

### Antenna Mounts

- 3080384M44 Black Magnetic with 12 ft. RG58A/U Cable, Mini-UHF Crimp
- 3080384M45 Chrome Magnetic with 12 ft. RG58A/U Cable, Mini-UHF Crimp
- 3080384M46 Chrome Trunk Mount with 17 ft. RG58A/U Cable, Mini-UHF Crimp
- 3080384M47 Black Trunk Mount with 17 ft. RG58A/U Cable, Mini-UHF Crimp
- 3080384M48 3/4 Roof Mount with 17 ft. RG58A/U Cable, Mini-UHF Crimp



HKN9557A



2880376E84

### Antenna Adapters

- HKN9557A Mini UHF to UHF Adapter Cable
- 2880376E84 Mini UHF Antenna Connector
- HLN8027A Mini UHF to BNC Connector

### Antennas

#### 800 MHz

- HAF4002A 806-900 MHz, 1/4 Wave Roof Mount Antenna
- RRA4914B 806-900 MHz, 3dB Stainless Steel Roof Mount Antenna
- RRA4990A 806-900 MHz, 3dB Black Chrome Roof Mount Antenna
- RRA4983A 806-900 MHz, 3dB, Roof Mount Antenna. Low Loss.
- RRA4986A 806-900 MHz, 3dB Black Chrome Roof Mount Antenna Low Loss.

#### 900 MHz

- RRA4935A 890-960 MHz, 3dB Roof Mount Antenna with 14 ft. Cable
- RAF4003ARM 890-960 MHz, 3dB Roof Mount Antenna with 22 ft. Low Loss Cable

### Low Profile Antennas

#### UHF

- 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
- RAE4171A White 450-470 MHz, 3dB Gain Antenna
- RAE4168A Black 450-470 MHz, 3dB Gain Antenna
- RAE4169A White 470-490 MHz, 3dB Gain Antenna

#### 800 MHz

- RAF4217A White 821-896 MHz, 3dB Gain Antenna
- RAF4218A Black 821-896 MHz, 3dB Gain Antenna
- RAF4219A Black 806-866 MHz, 3dB Gain Antenna
- RAF4220A White 806-866 MHz, 3dB Gain Antenna

### Low Profile Antennas Kits

Includes 3/4 Brass Mount and 17-foot RG58U Solid Center Conductor Cable.

#### UHF

- 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

#### 800 MHz

- 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

*Call us and order today...*

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