

# ***ACCESSORIES AND BATTERIES***

ASTRO® System Products



# Motorola Quality...

## *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 exceptional quality and 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 antenna or a cut-rate microphone, 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 demanding mobile communication needs. You'll find external speakers designed for high noise environments. Both palm and desk top microphones that deliver enhanced performance. Sirens that come through loud and clear in emergencies. Antennas for virtually any vehicle application and more. They're all ready to help you work smarter, harder and with greater confidence.

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

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# ASTRO® XTS 3000/ XTS 4250 portables

## **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 need to reach for the radio controls.





*RMN5089, RMN5067,  
RMN5088, RMN5066  
Commander™ Series  
Remote Speaker  
Microphones are the  
perfect choice for  
Mission Critical  
environments.*

*precision controlled signalling and  
priority scanning capability...*

*ASTRO® Digital XTS 3000 / XTS 4250 radios provide exceptional power in a comfortable, ergonomic design.*

*All models feature precision-controlled signaling, priority scanning capabilities and X-Pand™ Audio Enhancement.*

*And it's easy to reprogram each radio as your communication needs change.*

# microphones and audio

*Spend more time on mission-critical communications — and less time having to ask “what’s your location?” with HMN4080 GPS Remote Speaker Microphone*



## **Discreet Communication**

An earphone jack located on the microphone head allows the user to receive discreet audio when used with the earpieces shown here. Compatible with the Commander™

Remote Speaker Microphone and Remote Speaker Microphone with Emergency Button on page 5.

## *GPS Remote Speaker Microphone*

The Global Positioning System (GPS) Remote Speaker Microphone allows ASTRO® Digital XTS 2250 and XTS 4250 portable two-way radio users in outdoor locations to be automatically tracked by satellite. For optimal GPS coverage, a clear view of sky with no obstructions is required. GPS operation may be limited in buildings, tunnels, parking garages and areas with heavy tree coverage.

HMN4080<sup>†</sup> GPS Remote Speaker Microphone (fully submersible)

HMN4084<sup>†</sup> GPS Remote Speaker Microphone with audio jack (compatible with AARLN4885, RLN4941, WADN4190)

<sup>†</sup>Compatible with the ASTRO® Digital XTS 2250 and XTS 4250 portable two-way radio (Models I, II, III and Ruggedized), XTS 2250 radio must have tanapa version B hardware and a radio host code R10.00.00 or later. XTS 4250 radios must have a radio host code of R06.01.00 or later, Customer Programming Software (CPS) version R06.00.00 or later.

## 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.

NMN6193*	Remote Speaker Microphone
NMN6191*	Noise-Cancelling Remote Speaker Microphone, 3.5mm plug
0104010J46	Replacement Coil Cord Assembly for Remote Speaker Microphone

### Remote Speaker Microphones - Commander™ Series

The Commander™ Remote Speaker Microphone features an emergency button, volume control, 16-channel select knob with tactile feedback, 2 programmable buttons and a receive-only 3.5mm earphone jack (not included in submersible model). Ideal for firefighters, police and other professionals who frequently keep their XTS two-way radio inside a case or under clothing. These microphones have controls on the microphone head, allowing operational control from the microphone head.

AARMN5021*	Commander Remote Speaker Microphone
RMN5023*	Fully Submersible Commander Remote Speaker Microphone For a completely submersible radio/microphone system use with XTS 3000R, XTS 3500R and XTS 5000R portable radios.
RMN5089	Commander II RSM, Water Resistant with 3.5 Audio Jack, Channel Selector
RMN5067	Commander II RSM, Water Resistant without 3.5 Audio Jack, Channel Selector
RMN5088	Commander II Plus RSM, with Channel Selector Fully Submersible
RMN5066	Commander II Plus RSM, without Channel Selector Fully Submersible

### 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.

RMN5038*	Remote Speaker Microphone with Emergency Button
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### Remote Speaker Microphone Audio Accessories

The following earpieces are compatible with the Commander Remote Speaker Microphone RMN5021A and Remote Speaker Microphone with Emergency Button RMN5038.

RLN4941*	Receive-Only Earpiece with Translucent Tube and Rubber Eartip
AARLN4885*	Receive-Only Covered Earbud
WADN4190*	Receive-Only Flexible Earpiece, 3.5mm plug

### UHF 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. All require RF adapter NTN8327, sold separately.

NMN6247*	Public Safety Microphone with 30 Inch Straight Cord
NMN6250*	Public Safety Microphone with 24 Inch Straight Cord
NMN6251*	Public Safety Microphone with 18 Inch Straight Cord
NTN8327*	RF Adapter. Required for use with all Public Safety Microphones.

### 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.

NTN7660*	Mandown, Public Safety Tilt Switch
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### 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.

RLN4294	Epaulet Strap, Velcro
RLN4295	Epaulet Strap, with Clip



\*Intrinsically Safe (FM)

## 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 BDN6676 that attaches to the radio, unless being used with speaker microphone.

### 1 - WIRE SURVEILLANCE KITS

- BDN6664\* Receive-Only Earpiece with Standard Earphone (1-Wire). Beige.
- BDN6665\*† Extra Loud Receive-Only Earpiece with Standard Earphone (1-Wire). Beige.
- BDN6726\* Receive-Only Earpiece with Standard Earphone (1-Wire). Black
- BDN6727\*† Extra Loud Receive-Only Earpiece with Standard Earphone (1-Wire). Black

### 2 - WIRE SURVEILLANCE KITS

- BDN6667\* Earpiece with Microphone and Push-to-Talk Combined (2-Wire). Beige.
- BDN6669\*† Extra Loud Earpiece with Microphone and Push-to-Talk Combined (2-Wire). Beige.
- BDN6729\* Earpiece with Microphone and Push-to-Talk Combined (2-Wire). Black.
- BDN6731\*† Extra Loud Earpiece with Microphone and Push-to-Talk Combined (2-Wire). Black.

### 3 - WIRE SURVEILLANCE KITS

- BDN6668\* Earpiece with Microphone and Push-to-Talk Separate (3-Wire). Beige.
- BDN6670\*† Extra Loud Earpiece with Microphone and Push-to-Talk Separate (3-Wire). Beige.
- BDN6730\* Earpiece with Microphone and Push-to-Talk Separate (3-Wire). Black
- BDN6732\*† Extra Loud Earpiece with Microphone and Push-to-Talk Separate (3-Wire). Black



RLN6230

## 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.

- RLN5314 Comfort Earpiece, Receive-Only. Beige.
- RLN5313 Comfort Earpiece, Receive-Only. Black.
- RLN5311 Earpiece w/Microphone and PTT Combined (2-Wire). Beige.
- RLN5312 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.

- RLN6230 Extreme Noise Kit. Includes 2 foam earplugs. (Black)  
For high-noise environments. Noise reduction = 24dB.  
Can be used with Clear Comfortable Earpieces, sold separately.
- RLN6232 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.



RLN6232

### SURVEILLANCE REPLACEMENT ACCESSORIES

- BDN6676\* 3.5mm Jack Adapter with Quick Disconnect Latch
- 5080384F72 Replacement Foam Plugs. Pack of 50  
For use with NTN8370. Noise reduction rating = 24dB.
- 5080370E97 Replacement Standard Rubber Eartips, Clear. Pack of 25.  
For use with NTN8371.

## 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 NTN8371 and all Surveillance Kits.

- RLN4760 Small Custom Earpiece - Right Ear
- RLN4761 Medium Custom Earpiece - Right Ear
- RLN4762 Large Custom Earpiece - Right Ear
- RLN4763 Small Custom Earpiece - Left Ear
- RLN4764 Medium Custom Earpiece - Left Ear
- RLN4765 Large Custom Earpiece - Left Ear



RLN5311



RLN5313



BDN6676



From left to right,  
top to bottom:

- RLN4765
- RLN4762
- RLN4764
- RLN4761
- RLN4763
- RLN4760

\*Intrinsically Safe (FM)

†Extra loud earphone (exceeds OSHA limits)





# discreet communication...



RLN4922

Completely

Discreet

Earpiece.



## 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.

- RLN4922 Completely Discreet Earpiece Kit
- RLN4919 Replacement Earguards. 5 per pack.
- RNN4005 Replacement 1.4 Volt Batteries. 6 per pack.

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!

## 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.

- BDN6677\* EMS with PTT Interface. Black. For standard noise levels (up to 95dB).
- BDN6678\* EMS with PTT Interface. Beige. For standard noise levels p to 95dB).
- BDN6641\* EMS with PTT Interface. Grey. For high-noise levels (up to 105dB).
- BDN6643\* Push-to-Talk and Voice-Activated Interface Module



BDN6677

EMS with

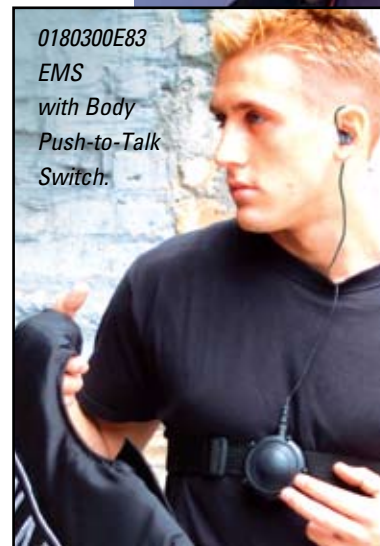
Push-to-Talk

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 (FM)

Take advantage of these high-quality Motorola Original® audio accessories that offer clear reception, lightweight convenience and all-day comfort.

*The CommPort System is ideal for firefighters and other public safety professionals because it's compatible with most headgear and airmasks.*



### *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 for almost any application.

- NTN1624\* Integrated Ear Microphone/Receiver System with Palm PTT  
Includes 3.5mm adapter BDN6676.
- NTN1625\* Integrated Ear Microphone/Receiver System with PTT on Radio Adapter  
Includes 3.5mm adapter BDN6676.
- NTN1663\* Integrated Ear Microphone/Receiver System with Ring PTT  
Includes 3.5mm adapter BDN6676.
- NTN1736\* Integrated Ear Microphone/Receiver System with Snap-On-Side PTT  
Includes 3.5mm adapter BDN6676.
- NNTN4186\* Integrated Ear Microphone/Receiver System with Body PTT  
Includes 3.5mm adapter BDN6676.

#### OPTIONAL ACCESSORIES FOR COMMPORT

- NKN6510 Replacement Palm PTT Cable for NTN1624
- NKN6512 Replacement Ring PTT Cable for NTN1663
- NKN6525 Replacement Snap-On-Side PTT Cable for NTN1736
- NNTN4188 Replacement Remote PTT Body Switch for NNTN4186
- NKN6508 Replacement Cable for NTN1625
- NTN8819\* Ear Microphone Assembly
- NTN8821 CommPort Maintenance Kit. Includes 10 replacement ear tubes, 10 microphone seal strips and 2 windscreens.
- NTN8986 Adhesive Pads. For secure attachment to ear. Pack of 90.
- NTN8988 Ear Straps. For secure attachment to ear. Pack of 10.
- RLN5037 Replacement Ear Tubes. Pack of 10.
- 4285838B01 Replacement Collar Clip
- 4202006A01 Replacement Back Cover Clip
- BDN6676 3.5mm Jack Adapter with Quick Disconnect Latch



# mission critical essentials...

## 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 BDN6676 or the earjack on speaker microphones.

- BDN6719 Flexible Ear Receiver with 3.5mm Threaded Plug  
Adapter BDN6676 required if not used with speaker microphones.
- BDN6676 3.5mm Jack Adapter with Quick Disconnect Latch
- 7580372E11 Replacement Foam Ear Cushion for BDN6717.



## Pellet-Style Earpieces

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

- BDN6780\* Earbud with Microphone and Push-to-Talk. Requires adapter BDN6676.
- BDN6781\* Earbud, receive-only. Requires adapter BDN6676 unless being used with a speaker or microphone.
- BDN6676\* 3.5mm Jack Adapter with Quick Disconnect Latch
- 7580372E70 Replacement Foam Cushion for Pellet Earpieces



## Temple Transducer

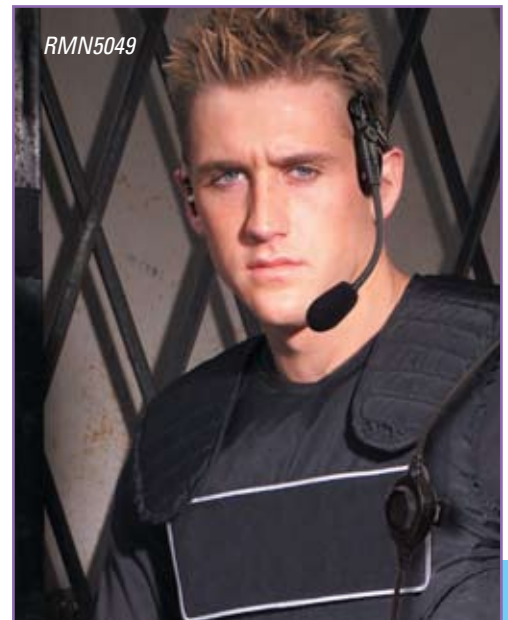
The Temple Transducer represents a significant achievement in headset design and functionality. It allows the user to receive audio without covering the ear. The receiver portion of this accessory rests on the temples and is capable of converting the receive audio from a two-way radio into sound vibration. 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.

- RMN4049\* 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.

- RMN5049\* Rugged Temple Transducer



\*Intrinsically Safe (FM)

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

RMN5015 lets

users take charge...

in spite of

high background

noise.

### 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.

RMN5015	Racing Headset with Noise-Cancelling Swivel Boom Microphone Behind-the-Head style. Noise reduction rating = 24dB
BDN6676	Adapter Cable for RMN5015

### Receive-Only Headsets

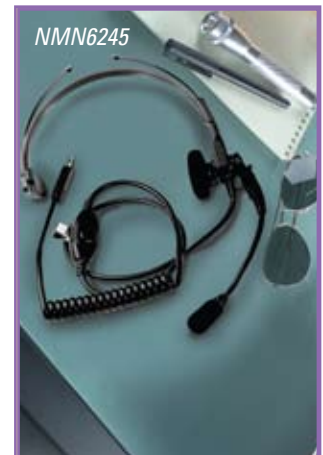
Receive-Only Headsets are the right choice for high-noise environments where users must hear information clearly, but seldom need to transmit. Dual-Muff headsets feature easily replaceable earseals filled with a liquid and foam combination to provide excellent protection from outside noise as well as 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 BDN6676.

RMN4056	Receive-Only Dual-Muff Headband Style Headset. For use with 3.5mm threaded jack. Can be plugged directly into radio with 3.5mm adapter BDN6676. Noise reduction = 24dB.
RMN4057	Receive-Only, Dual-Muff, Hardhat Headset. Mounts easily to hard hats 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 BDN6676.
BDN6676	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 BDN6676 required.

NMN6245	Single-Muff Lightweight Headset with In-Line PTT Switch Requires audio adapter BDN6676.
NMN6246	Ultra-Light Headset with Boom Microphone, In-Line PTT Switch Earbud style receiver. Requires audio adapter BDN6676.
NKN6498	Headset Adapter Cable. For use with NMN1020
BDN6676	3.5mm Jack Adapter with Quick Disconnect Latch



*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 RKN4095 required. Hardhat not included.

- RMN4052 Tactical Headband Style Headset. Grey, Noise reduction = 24dB.
- RMN4053 Tactical Hardhat Mount Headset. Grey, Noise reduction = 22dB.
- RKN4095 Adapter Cable with In-Line Push-to-Talk  
For use with RMN4052/RMN4053, RMN4051

#### REPLACEMENT EARSEALS

- RLN4923 Replacement Earseals for RMN4051/RMN4052/RMN4053  
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 RKN4095 required. Hardhat not included.

- RMN4051 Two-way, Hardhat Mount Headset w/Noise-Cancelling Boom Microphone. Black.
- RKN4094 Adapter Cable with In-Line Push-to-Talk. For use with RMN4051.
- RKN4095 In-Line PTT Adapter Cable. For use with RMN4051/RMN4052/RMN4053.

### 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.

- NMN6258\* Medium Weight, Dual-Muff, Over-the-Head Style Headset with In-line PTT  
Noise reduction rating = 24dB.
- NMN6259\* 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 BDN6673, sold separately.

- BDN6645\* Push-to-Talk Headset with Boom Microphone  
Requires adapter cable BDN6673. Noise reduction rating = 24dB.
- BDN6635 Voice-Activated (VOX) Headset with Boom Microphone  
Requires adapter cable BDN6673. Noise reduction rating = 24dB.
- BDN6636\* Voice-Activated (VOX) Headset with Throat Microphone  
Requires adapter cable BDN6673. Noise reduction rating = 24dB.
- BDN6673\* Radio Adapter Cable



\*Intrinsically Safe (FM)

# 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. Leather cases are constructed of top grain, 8 ounce leather and all stainless steel hardware, Motorola carry cases were developed to meet the demands of public safety and other users who operate in the most rigorous of environments.

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

- NTN8387
- NTN8385
- NTN8386
- NTN8725
- NTN8382
- NTN8380
- NTN8381
- NTN8725
- NTN9184

### MODEL I RADIOS ONLY

- Leather Carry Case with Belt Loop, D-rings and T-strap
- High-Activity Swivel Leather Case
- Features 2.5 Inch swivel belt loop, D-rings and T-strap.
- High-Activity Swivel Leather Case
- Features 3 Inch swivel belt loop, D-rings and T-strap.
- High-Activity Nylon Case with Belt Loop and T-strap

### MODEL II & III RADIOS ONLY

- Leather Case with Belt Loop, D-rings and T-strap
- High-Activity Swivel Leather Case
- Features 2.5 Inch swivel belt loop, D-rings and T-strap.
- High-Activity Swivel Leather Case
- Features 3 Inch swivel belt loop, D-rings and T-strap.
- High-Activity Nylon Case with Belt Loop and T-strap
- Leather Case with Belt Loop. For Clamshell Battery.

## Carrying Accessories

- Motorola Original® NTN8383
- NTN8384
- NTN8039
- NTN8040
- NTN8266
- NTN8460
- NTN5243

### T - STRAPS

- Leather T-strap, Plain Action Snap
- Leather T-strap, Hard Action Snap
- Provides additional strength at the snap.

### HIGH-ACTIVITY BELT LOOPS

- 2.5 Inch Leather Swivel Belt Loop
- 3 Inch Leather Swivel Belt Loop

### BELT CLIPS

- Standard Removable 2.25 Inch Belt Clip Attachment
- Public Safety 3 Inch Belt Clip Attachment

### CARRYING STRAP

- Adjustable, Black Nylon Carrying Strap
- Attaches to D-ring on cases.



NTN8385



NTN8380



NTN8381



NTN8039



NTN8040



NTN8460



NTN5243



*Universal*

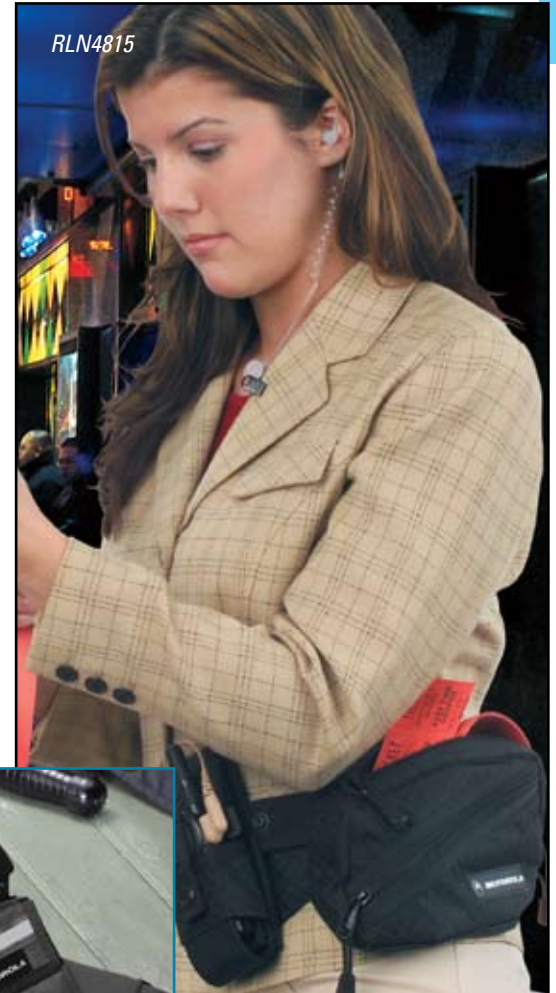
*Chest Pack*

*HLN6602*

*has adjustable*

*shoulder and*

*waist straps.*



*RLN4815*

**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.

- HLN6602 Universal Chest Pack with Radio Holder, Pen Holder and Velcro Secured Pouch
- 1505596Z02 Replacement Strap for HLN6602/RLN4570

**Break-A-Way Chest Pack**

All the features of the original Universal Chest Pack (HLN6602) plus break-a-way tabs that allow the entire pack to be pulled off with approximately 10 lbs. of pressure.

- RLN4570 Break-a-Way Chest Pack with Radio Holder, Pen Holder and Velcro Secured Pouch.
- 1505596Z02 Replacement Strap for HLN6602/RLN4570

**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.

- RLN4815 RadioPAK Radio/Utility Case
- 4280384F89 RadioPAK Extension Belt For waists larger than 40 inches.



*RLN4570*

*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**

- HLN9985 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.

- TDN9327 Portable Radio Hanger for door panels up to 2.75 inches.
- TDN9373 Portable Radio Hanger for door panels 2.75 to 3.25 inches.



*TDN9327, TDN9373*

# 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

NTN8294\_R  
NTN8295\_R\*  
NTN8297\_R\*

### PREMIUM NICKEL CADMIUM - NiCd

NiCd, 1525 mAh 7.5 Volt.  
NiCd, 1525 mAh 7.5 Volt.  
NiCd, 1525 mAh 7.5 Volt., Ruggedized.

NTN8299\_R\*  
NTN8923\_R  
RNN4006  
RNN4007\_R\*

### PREMIUM NICKEL METAL HYDRIDE - NiMH

NiMH, 1700 mAh 7.5 Volt.  
NiMH, 1800 mAh 7.5 Volt  
NiMH, 3500 mAh 7.5 Volt  
NiMH, 3500 mAh 7.5 Volt.

NTN9177

### PREMIUM ALKALINE BATTERY SHELLS

Disposable Battery Shell—Black  
Twelve AA Alkaline batteries required, sold separately.  
Disposable Battery Shell—Orange  
Twelve AA Alkaline batteries required, sold separately.

NTN9183

## 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.

HNN9031	NiCd, 1525 mAh 7.5 Volt
HNN9032*	NiCd, 1525 mAh 7.5 Volt.
NNTN4435	NiMH, 1800 mAh 7.5 Volt
NNTN4436*	NiMH, 1700 mAh 7.5 Volt.
NNTN4437*	NiMH, 1700 mAh 7.5 Volt., Ruggedized.
NTN9862	Li-Ion, 2750 mAh 7.2 Volt
NNTN7335	Li-Ion, 2700 mAh 7.2 Volt

NTN8299\_R



IMPRES Batteries



\*Intrinsically Safe (FM)



# essential power...

## Single-Unit, Rapid-Rate, Universal Charger

These tri-chemistry chargers support Nickel Cadmium, Nickel Metal Hydride and Lithium-ion batteries. They will rapid charge most batteries to 90% capacity in one to two hours and employ trickle and maintenance modes that ensure batteries are safely charged to full-capacity.

- NTN1667 Universal Charger, 110 Volt, US Plug
- NTN1668 Universal Charger, 220 Volt, Euro Plug
- RPX4749 Charger Base with Transformer, 230 Volt, UK Plug



NTN1667

## 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.

- WPLN4086\_R Charger Kit, 110 Volt AC. Includes single-unit base and 7 Volt adapter plate.
- WPLN4087\_R Charger Kit, 220 Volt AC. Includes single-unit base and 7 Volt adapter plate.
- WPPN4002\_R 110 Volt AC Single-Unit Base Charger Only  
Adapter plates sold separately.
- WPPN4006\_R 220 Volt AC Single-Unit Base Charger Only  
Adapter plates sold separately.
- WPPN4021\_R 7 Volt Adapter Plate
- WPPN4065\_R Multi-Unit Conditioning Charger, 4-Station Base, 110 Volt.  
Adapter plates sold separately.

Motorola Conditioning Chargers are not compatible with NiMH batteries RNN4006B and RNN4007AR.

## Vehicular Mounting

- RLN4814 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 A In-line fuse.



RLN4814

## Vehicular Power Adapter

- 3080384G15 Vehicular Power Adapter



WPPN4065\_R

WPPN4002\_R  
Single-Unit Base Charger and power supply shown with optional Vehicular Power Adapter 3080384G15.



WPLN4111\_R

## 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

WPLN4111\_R IMPRES Single-Unit Charger, 110 Volt, US Plug  
 WPLN4112\_R IMPRES Single-Unit Charger, 220 Volt, Euro Plug  
 WPLN4113\_R IMPRES Single-Unit Charger, 240 Volt, UK Plug  
 5889254E01 Battery Adapter. Required for NTN4538\_R, NTN4593\_R, NTN7014\_R and NTN8818 batteries.

### IMPRES™ Multi-Unit Chargers

WPLN4108\_R IMPRES Multi-Unit Charger, 110 Volt, US Plug  
 WPLN4109\_R IMPRES Multi-Unit Charger, 220 Volt, Euro Plug  
 WPLN4110\_R IMPRES Multi-Unit Charger, 240 Volt, UK Plug  
 4385922B01 Battery Adapter. Required for NTN4538\_R, NTN4593\_R, NTN7014\_R and NTN8818 batteries.  
 NLN7967 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.

WPLN4130 IMPRES Multi-Unit Charger with Display Modules, 110 Volt, US Plug  
 WPLN4131\_R IMPRES Multi-Unit Charger with Display Modules, 220 Volt, Euro Plug  
 WPLN4132\_R IMPRES Multi-Unit Charger with Display Modules, 240 Volt, UK Plug  
 NLN7967 Wall Mount for Multi-Unit Charger

### IMPRES™ Individual Charger Display Module

This module is compatible with the standard IMPRES™ Multi-Unit Charger WPLN4108\_R, WPLN4109\_R and WPLN4110\_R. Up to 6 modules can be used per charger, one for each charging pocket. Includes detailed installation instructions.

RLN5382 Charger Display Module for IMPRES Multi-Unit Charger Version 1.3 or Later.

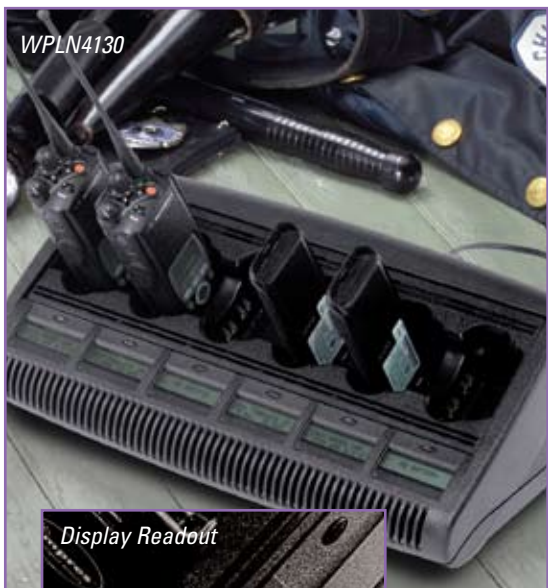
Note: Display Modules compatible with Multi-Unit Charger version 1.2 or earlier require a software flash update.

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

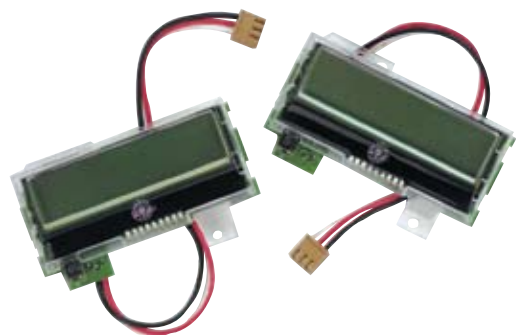
This CD provides an interactive guide to the IMPRES Charging System. It outlines the benefits and gives examples of application usage.

0180305J70 IMPRES CD



WPLN4130

Display Readout



RLN5382

# essential power systems...

## 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).

WPLN4079_R	6-Station BMS <sup>PLUS</sup> , 110 Volt AC, 50/60 Hz, US Plug
WPLN4080_R	6-Station BMS <sup>PLUS</sup> , 230 Volt AC, 50/60 Hz, Euro Plug
WPLN4081_R	6-Station BMS <sup>PLUS</sup> , 230 Volt AC, 50/60 Hz, UK Plug
WPPN4085_R	BMS <sup>PLUS</sup> Li-Ion Field Upgrade Kit. Upgrades WPLN4079_R, WPLN4080_R, WPLN4081_R. Allows units to support Li-Ion batteries.
NDN4005	3-Station BMS, 110 Volt AC, 50/60 Hz. Does not support Li-Ion or 3-cell batteries.
NDN4006	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

WPPN4019_R	Adapter. Compatible with NiCd batteries only.
WPPN4022_R	Adapter. Compatible with both NiCd and NiMH batteries.
WPPN4086_R	Adapter. Compatible with NiCd, NiMH and Li-Ion 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.

WPLN4124_R	BOS II, 4-Station, 90-264 Volt AC, US Plug. Adapter Plates Required.
WPLN4125_R	BOS II, 4-Station, 90-264 Volt AC, Euro/UK Plug. Adapter Plates Required.
RL75765	BOS II Battery Adapter. For use with ASTRO XTS 3000 and XTS 4250 radios.

- 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



# vehicular chargers

## 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.

RLN4884 Vehicular Travel Charger  
RLN5914 Universal Mounting Bracket for RLN4884.  
Includes screws and nylon strap cord.

### TRAVEL CHARGER TRANSFORMERS

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



## Vehicular Charger

This vehicular charger is a 12 Volt DC unit that supports NiCd, NiMH and Li-Ion batteries for XTS 3000 and XTS 4250. A microprocessor senses the type of battery installed and controls the rate-of-charge accordingly. Batteries are charged at a rapid-rate until fully charged at which point the unit reverts to a trickle charge. Batteries can be charged while on the radio or stand alone. The radio can be operated while in the charger and this unit is PAC RT compatible. The vehicular charger consists of a console, mounting hardware and supply cable.

WPLN4208 Vehicular Charger



## power for the road...



Vehicular Adapters offer quick radio release and dead battery operation. They are powered by attaching the radio supply cable to the 12 Volt battery located inside a police car, utility truck or other vehicle.

### Vehicular Adapters

Allow users to adapt XTS 3000, XTS 4250 or XTS 5000 portable radios for mobile operation. They provide in-vehicle rapid and trickle charging for NiCd, NiMH and Li-Ion batteries. These units offer quick radio release and dead battery operation and are powered by attaching the radio supply cable to the 12 Volt battery located inside a police car, utility truck or other vehicle. Connectors are provided for the vehicle's external antenna, mobile microphone and optional amplified loudspeaker HSN1000 – these are required to allow operation of the portable radio in a way that is similar to that of a mobile. There is also a general interface connector for additional accessories. A color LED indicates battery recharge status. For XTVA operation, a microphone and RF Switch NTN8327 are required.

NTN8561	XTS Vehicular Adapter. Closed Face with Limited Keypad Access, Mini-UHF.
NTN8560	XTS Vehicular Adapter. Open Face with Limited Keypad Access, Mini-UHF.
NTN1607	XTS Vehicular Adapter. Closed Face, BNC.
NTN1606	XTS Vehicular Adapter. Open Face with Limited Keypad Access, BNC.

#### ADAPTER KITS FOR ACCESSORIES

NTN8941	XTVA Data Cable Kit. Required for additional accessories, sold separately.
NTN8943	XTVA Accessory Adapter Kit. Required for additional accessories, sold separately.

#### REQUIRED ACCESSORIES FOR VEHICULAR ADAPTERS

NTN8940	Trunion. Required for operation.
NTN8270	Tool Wrench for RF Switch. Required for operation.
NTN8327	RF Adapter. Required for operation.

#### OPTIONAL ACCESSORIES FOR VEHICULAR ADAPTERS

PLN7737	Hand Held Control Head
HSN1000	External Speaker, Amplified, 6-Watt
HLN9330	Emergency Foot Switch
GLN7280	Emergency Push Button
NKN6455	MTVA PA/Speaker Cable

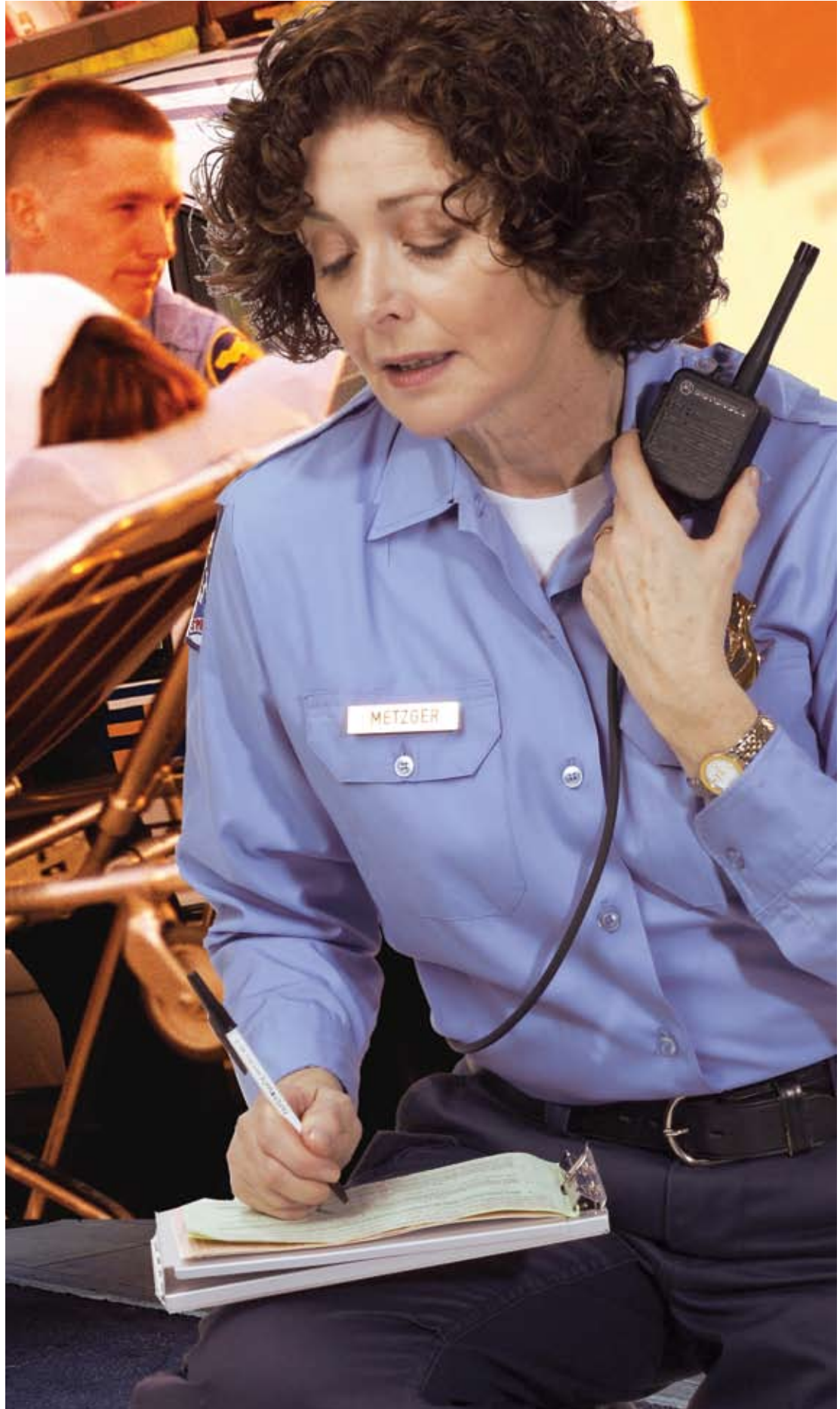
# antennas

## 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 radio is worn on the belt.

- 8505241U05      6 Inch Flexible Whip Antenna, 403-520 MHz
- 8505241U03      7 Inch Flexible Whip Antenna, 806-869 MHz
- 8505241U11      7 Inch Flexible Whip, Dual Band Antenna, 764-870 MHz

## Helical

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.

- 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

## Wideband

Wideband antennas are ideal when the radio is 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 unobtrusive. This broad band antenna can be used for both 800 and 900 MHz applications.

- 8505241U06      4 Inch Stubby Antenna, 806-941 MHz



# XTS 1500/ XTS 2250 portables

## 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.







*"Yes Captain...  
we put the engine fire  
out, the ambulance  
just got here, so we're  
heading back to the  
station."*

## *high performance in a small size...*

*ASTRO® Digital XTS 1500™/XTS 2250™ radios offer high performance capability in an easy-to-use small size.*

*Lightweight and convenient to carry, these radios feature Noise Reduction Software for enhanced audio quality and support multiple system configurations to match your needs.*

# 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.

*NMN6191 Noise-*

*Cancelling Remote*

*Speaker Microphone*

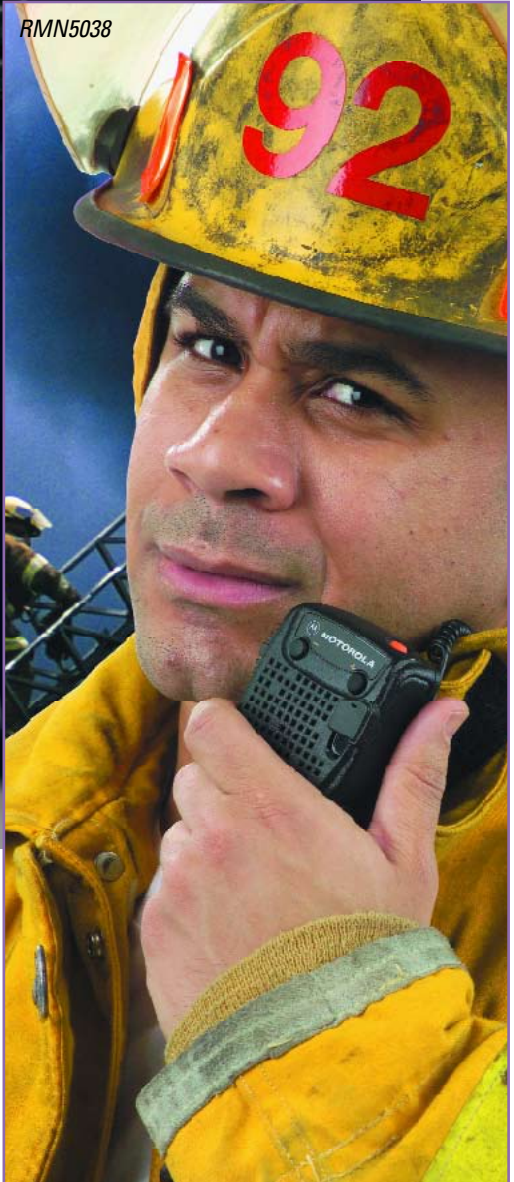
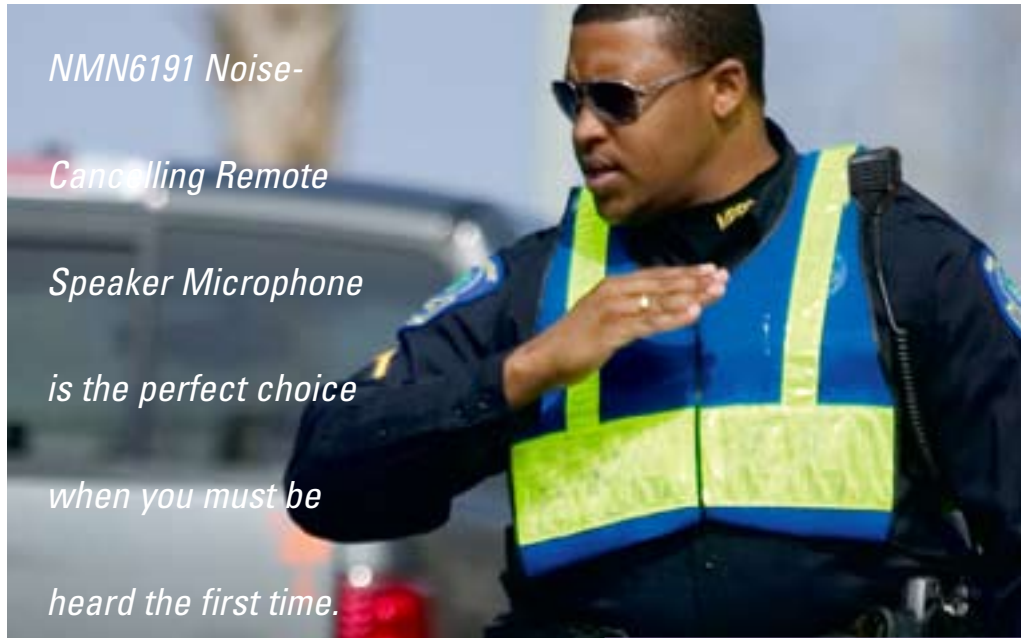
*is the perfect choice*

*when you must be*

*heard the first time.*



*The Remote Speaker Microphone with Emergency Button has an earphone jack located on the microphone head that allows the user to receive discreet audio when used with the following earpieces RLN4941, AARLN4885 and WADN4190.*



# 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.

- NMN6193\* Remote Speaker Microphone
- NMN6191\* 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.

- RMN5038\* Remote Speaker Microphone with Emergency Button

## Public Safety Microphones (PSM)

Public Safety Speaker Microphones include straight cord assembly, 3.5mm earjack, swivel clip, antenna connector and receive audio high/low toggle switch. Use with radio's antenna, sold separately. RF adapter is included. Not for use in VHF frequency bands.

- RMN5072\* Public Safety Microphone with 30 Inch Straight Cord
- RMN5073\* Public Safety Microphone with 24 Inch Straight Cord
- RMN5074\* Public Safety Microphone with 18 Inch Straight Cord

## RSM/PSM Audio Accessories

The following earpieces are compatible with the Remote Speaker Microphone with Emergency Button RMN5038 and Public Safety Microphones RMN5072, RMN5073 and RMN5074.

- RLN4941 Receive-Only Earpiece with Translucent Tube and Rubber Eartip
- AARLN4885 Receive-Only Covered Earbud
- WADN4190 Receive-Only Flexible Earpiece

## 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.

- RLN4294 Epaulet Strap, Velcro
- RLN4295 Epaulet Strap, with Clip



\*Intrinsically Safe (FM)

## 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 BDN6676 that attaches to the radio, unless being used with speaker microphone.

### 1 - WIRE SURVEILLANCE KITS

BDN6664*	Receive-Only Earpiece with Standard Earphone (1-Wire). Beige.
BDN6665*†	Extra Loud Receive-Only Earpiece with Standard Earphone (1-Wire). Beige.
BDN6726*	Receive-Only Earpiece with Standard Earphone (1-Wire). Black
BDN6727*†	Extra Loud Receive-Only Earpiece with Standard Earphone (1-Wire). Black
BDN6666*	Receive-Only Earpiece with Volume Control and Earloop (1-Wire). Beige.
BDN6728*	Receive-Only Earpiece with Volume Control and Earloop (1-Wire). Black.

### 2 - WIRE SURVEILLANCE KITS

BDN6667*	Earpiece with Microphone and Push-to-Talk Combined (2-Wire). Beige.
BDN6669*†	Extra Loud Earpiece with Microphone and Push-to-Talk Combined (2-Wire). Beige.
BDN6729*	Earpiece with Microphone and Push-to-Talk Combined (2-Wire). Black.
BDN6731*†	Extra Loud Earpiece with Microphone and Push-to-Talk Combined (2-Wire). Black.

### 3 - WIRE SURVEILLANCE KITS

BDN6668*	Earpiece with Microphone and Push-to-Talk Separate (3-Wire). Beige.
BDN6670*†	Extra Loud Earpiece with Microphone and Push-to-Talk Separate (3-Wire). Beige.
BDN6730*	Earpiece with Microphone and Push-to-Talk Separate (3-Wire). Black
BDN6732*†	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.

RLN5314	Receive-Only Comfort Earpiece. Beige.
RLN5313	Receive-Only Comfort Earpiece. Black.
RLN5311	Earpiece w/Microphone and PTT Combined (2-Wire). Beige.
RLN5312	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.

RLN6230	Extreme Noise Kit. Includes 2 foam earplugs. Black. For high-noise Noise reduction =24dB. Can be used with Clear Comfortable Earpieces, sold separately.
RLN6232	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

BDN6676*	3.5mm Jack Adapter with Quick Disconnect Latch
5080384F72	Replacement Foam Plugs. Pack of 50 For use with NTN8370. Noise reduction rating = 24dB.
5080370E97	Replacement Standard Rubber Eartips. Clear. Pack of 25. For use with NTN8371.

## 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 NTN8371 and all Surveillance Kits.

RLN4760	Small Custom Earpiece - Right Ear
RLN4761	Medium Custom Earpiece - Right Ear
RLN4762	Large Custom Earpiece - Right Ear
RLN4763	Small Custom Earpiece - Left Ear
RLN4764	Medium Custom Earpiece - Left Ear
RLN4765	Large Custom Earpiece - Left Ear



BDN6676

\*Intrinsically Safe (FM)

†Extra loud earphone (exceeds OSHA limits)

# discreet communication...



**RLN4922**  
*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.

RLN4922 Completely Discreet Earpiece Kit  
 RLN4919 Replacement Earguards. 5 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.

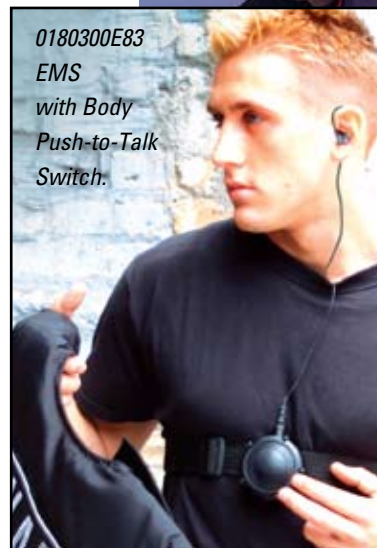
BDN6677\* EMS with PTT Interface. Black. For standard noise levels (up to 95dB).  
 BDN6678\* EMS with PTT Interface. Beige. For standard noise levels (up to 95dB).  
 BDN6641\* EMS with PTT Interface. Grey. For high-noise levels (up to 105dB).  
 BDN6708\* Push-to-Talk Only Interface Module  
 BDN6671\* Push-to-Talk and Voice-Activated 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.



**BDN6677**  
*EMS with  
 Push-to-Talk  
 Interface  
 Module.*



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



0180300E25

\*Intrinsically Safe (FM)

Take advantage of these high-quality Motorola Original® audio accessories that offer clear reception, lightweight convenience and all-day comfort.

*The CommPort System is ideal for firefighters and other public safety professionals because it's compatible with most headgear and airmasks.*



### *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 users to customize the CommPort System for almost any application.

- NTN1624\* Integrated Ear Microphone/Receiver System with Palm PTT  
Includes 3.5mm adapter BDN6676.
- NTN1625\* Integrated Ear Microphone/Receiver System with PTT on Radio Adapter  
Includes 3.5mm adapter BDN6676.
- NTN1663\* Integrated Ear Microphone/Receiver System with Ring PTT.  
Includes 3.5mm adapter BDN6676.
- NTN1736\* Integrated Ear Microphone/Receiver System with Snap-On-Side PTT  
Includes 3.5mm adapter BDN6676.
- NNTN4186\* Integrated Ear Microphone/Receiver System with Body PTT  
Includes 3.5mm adapter BDN6676.

#### OPTIONAL ACCESSORIES FOR COMMPORT

- NKN6510 Replacement Palm PTT Cable for NTN1624
- NKN6512 Replacement Ring PTT Cable for NTN1663
- NKN6525 Replacement Snap-On-Side PTT Cable for NTN1736
- NNTN4188 Replacement Remote PTT Body Switch for NNTN4186
- NTN8819\* Ear Microphone Assembly
- NKN6508 Replacement Cable for NTN1625
- NTN8821 CommPort Maintenance Kit  
Includes 10 replacement ear tubes, 10 microphone seal strips and 2 windscreens.
- NTN8986 Adhesive Pads. For secure attachment to ear. Pack of 90.
- NTN8988 Ear Straps. For secure attachment to ear. Pack of 10.
- RLN5037 Replacement Ear Tubes. Pack of 10.
- 4285838B01 Replacement Collar Clip
- 4202006A01 Replacement Back Cover Clip
- BDN6676 3.5 mm Jack Adapter with Quick Disconnect Latch



\*Intrinsically Safe (FM)

# mission critical essentials...

## Pellet-Style Earpieces

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

- BDN6780 Earbud with Microphone and Push-to-Talk  
Requires adapter BDN6676.
- BDN6781 Earbud, receive-only. Requires BDN6676 adapter unless being used with a speaker or microphone.
- 7580372E70 Replacement Foam Cushion for Pellet Earpieces
- BDN6676 3.5mm Jack Adapter with Quick Disconnect Latch



BDN6780

## 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.

- RMN4049\* 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.

- RMN5049\* Rugged Temple Transducer



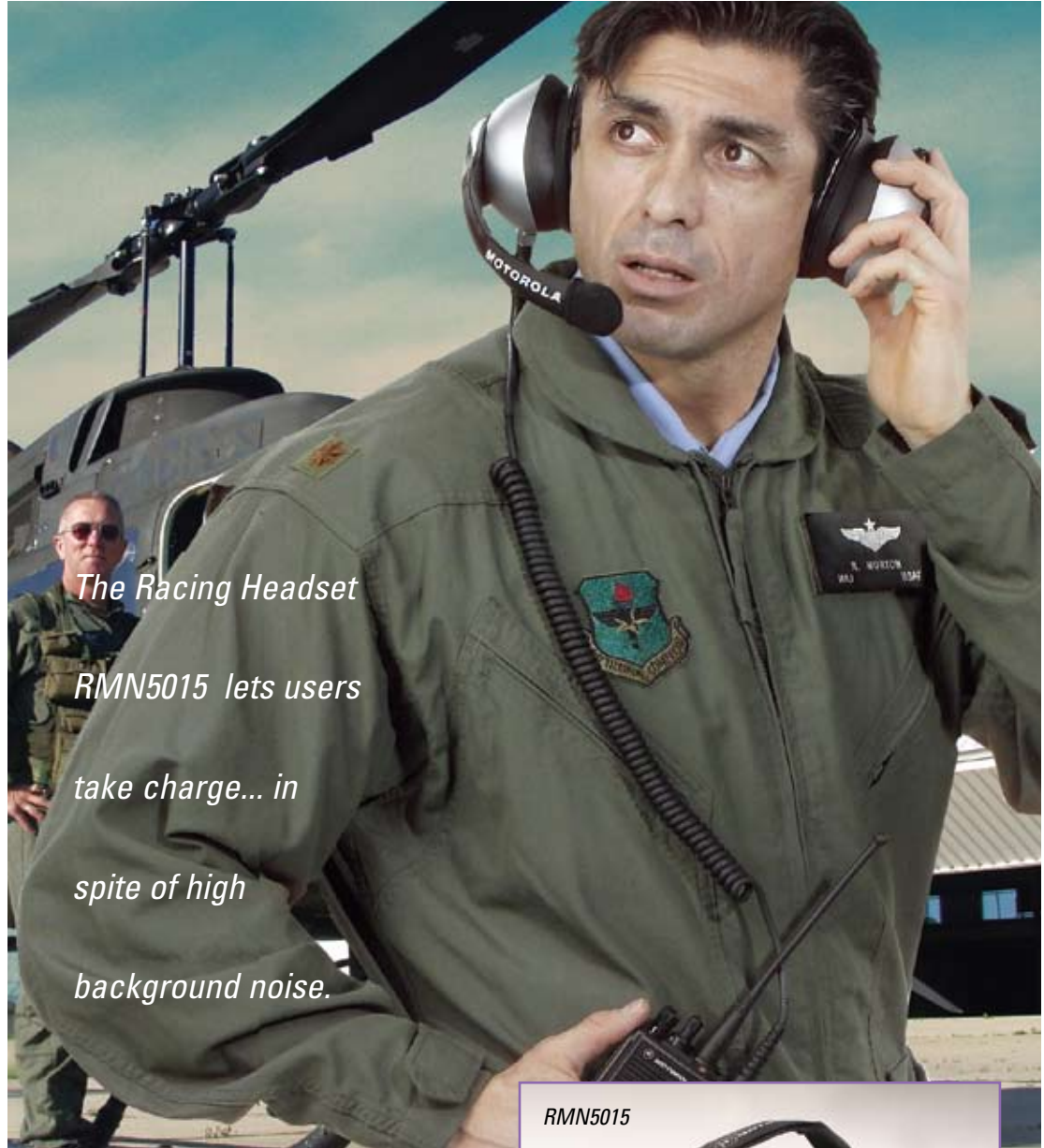
RMN4049



RMN5049

\*Intrinsically Safe (FM)

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*

*RMN5015 lets users*

*take charge... in*

*spite of high*

*background noise.*

RMN5015



## *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.

RMN5015	Racing Headset with Noise-Cancelling Swivel Boom Microphone Behind-the-Head style. Noise reduction rating = 24dB.
BDN6673	Adapter Cable for RMN5015





# clear communication...

## Noise-Cancelling Headsets With Boom Microphone

Ideal for two-way communication in extremely noisy environments. Dual-Muff, tactical headsets include two microphones on the outside of the earcups which reproduce the ambient sound back into the headset. Harmful sounds are suppressed to a safe level and low sounds are amplified up to 5 times the original level, but never more than 82dB. Includes on/off volume control on earcups and 3-foot coiled cord. Easily replaceable earseals are filled with liquid and foam combination to provide excellent sealing and comfort. Requires RKN4095 In-line PTT adapter cable. Hardhat not included.

- RMN4052 Tactical Headband Style Headset, Grey. Noise Reduction Rating = 24dB. Requires RKN4095 Adapter Cable
- RMN4053 Tactical Hardhat Mount Headset, Grey. Noise Reduction Rating = 22dB. Requires RKN4095 Adapter Cable.
- RKN4095 In-Line PTT Adapter Cable  
For use with RMN4051, RMN4052 and RMN4053 headsets.



## Hardhat Mount Headset With Noise-Cancelling Boom Microphone

Ideal for two-way communication in high-noise environments, it mounts to hardhats with slots and has an excellent noise reduction of 22dB. Easily replaceable earseals are filled with liquid and foam combination to provide excellent sealing and comfort. 3-foot coiled cord assembly. Requires RKN4095 In-line PTT Adapter Cable. Hardhat not included.

- RMN4051 Two-way Hardhat-mount Headset. Black.



## Medium Weight Headsets

Medium Weight headsets offer high-clarity sound with the additional hearing protection necessary for providing consistent, clear two-way radio communications in harsh, noisy situations.

- NMN6258 Medium Weight Headset, Over-the-Head Style with In-line PTT. Noise reduction rating = 24dB.
- NMN6259 Medium Weight Headset, Behind-the-Head Style with In-line PTT. 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. Radio adapter cable BDN6640 required, sold separately.

- BDN6645\* Push-to-Talk Headset with Boom Microphone  
Requires adapter cable BDN6640. Noise reduction rating = 24dB.
- BDN6635\* Voice-Activated (VOX) Headset with Boom Microphone  
Requires adapter cable BDN6640. Noise reduction rating = 24dB.
- BDN6636\* Voice-Activated (VOX) Headset with Throat Microphone  
Requires adapter cable BDN6640. Noise reduction rating = 24dB.
- BDN6673\* Radio Adapter Cable



\*Intrinsically Safe (FM)

# 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  
 Motorola Original®  
 carry accessories.

## Leather 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.

- NNTN4115 Leather Case with High-Activity Swivel  
Features 3 inch swivel belt loop, D-rings and T-strap.
- NNTN4116 Leather Case with High-Activity Swivel  
Features 2.5 inch swivel belt loop, D-rings and T-strap.
- NNTN4117 Leather Case with Belt Loop  
Features 3 inch belt loop, D-rings and T-strap.



NNTN4115

## Nylon Carrying Case

- NTN7247 Nylon Case with Snap Belt Loop and T-strap



NTN7247

## Carrying Accessories

### T-STRAPS

- NTN8383 Leather T-strap, Plain Action Snap
- NTN8384 Leather T-strap, Hard Action Snap

### HIGH-ACTIVITY BELT LOOPS

- NTN8039 Leather Swivel Belt Loop. 2.5 Inches.
- NTN8040 Leather Swivel Belt Loop. 3 Inches.

### BELT CLIPS

- HLN6853 2.25 Inch Spring Action Belt Clip
- HLN9844 2 Inch Removable Belt Clip Attachment

### CARRYING STRAP

- NTN5243 Adjustable, Black Nylon Carrying Strap  
Attaches to D-ring on case.



NTN8039



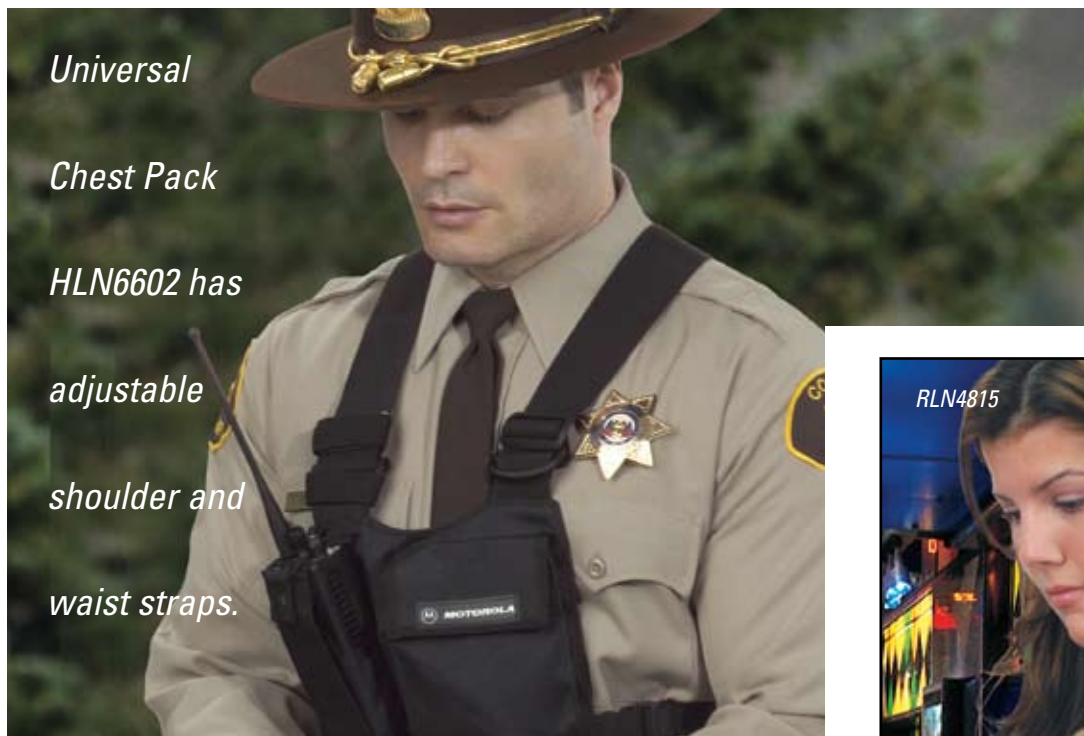
NTN8040



HLN9844



NTN5243



*Universal*

*Chest Pack*

*HLN6602 has*

*adjustable*

*shoulder and*

*waist straps.*



RLN4815

**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.

- HLN6602 Universal Chest Pack with Radio Holder, Pen Holder and Velcro Secured Pouch
- 1505596Z02 Replacement Strap for HLN6602/RLN4570

**Break-A-Way Chest Pack**

All the features of the original Universal Chest Pack (HLN6602) plus break-a-way tabs that allow the entire pack to be pulled off with approximately 10 lbs. of pressure.

- RLN4570 Break-a-Way Chest Pack with Radio Holder, Pen Holder and Velcro Secured Pouch.
- 1505596Z02 Replacement Strap for HLN6602/RLN4570

**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.

- RLN4815 RadioPAK Radio/Utility Case
- 4280384F89 RadioPAK Extension Belt For waists larger than 40 inches.



RLN4570

*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**

- HLN9985 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.

- TDN9327 Portable Radio Hanger for door panels up to 2.75 Inches.
- TDN9373 Portable Radio Hanger for door panels 2.75 to 3.25 Inches.



TDN9327, TDN9373

# 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

### PREMIUM NICKEL CADMIUM - NiCd

NTN9815	NiCd, 1525 mAh 7.5 Volt
NTN9816*	NiCd, 1525 mAh 7.5 Volt.

## 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.

NTN9858	NiMH, 1850 mAh 7.5 Volt
NTN9857*	NiMH, 1700 mAh 7.5 Volt.
NNTN6263*	NiMH, 1700 mAh 7.5 Volt., Ruggedized.
NNTN7335	Li-Ion, 2700 mAh 7.2 Volt

## Single-Unit, Rapid-Rate, Universal Charger

These tri-chemistry chargers support Nickel Cadmium, Nickel Metal Hydride and Lithium-ion batteries. They will rapid charge most batteries to 90% capacity in one to two hours and employ trickle and maintenance modes that ensure batteries are safely charged to full-capacity.

NTN1667	Universal Charger, 110 Volt,
NTN1668	Universal Charger, 220 Volt,
RPX4749	Charger Base with Transformer, 230 Volt UK Plug



NTN1667

## 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.

- WPPN4002\_R Base Charge Unit, 110 Volt AC. Adapter plates sold separately.
- WPLN4168\_R MCC Kit, 110 Volt AC. Includes single-unit base and adapter plate
- WPPN4098\_R XTS Adapter plate only
- WPPN4065\_R Multi-Unit Conditioning Charger, 4-Station Base, 110 Volt AC. Adapter plates sold separately.

## 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.



RLN4814

## Vehicular Power Adapter

- 3080384G15 Vehicular Power Adapter



WPPN4065\_R

## 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.

- RLN4884 Vehicular Travel Charger
- RLN4914 Universal Mounting Bracket for RLN4884. 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



RLN4884

## Vehicular Charger

This vehicular charger is a 12 Volt DC unit that supports NiCd, NiMH and Li-Ion batteries. A microprocessor senses the type of battery installed and controls the rate of charge accordingly. Batteries are charged at a rapid-rate until fully charged at which point the unit reverts to a trickle charge. Batteries can be charged while on the radio or stand alone. The radio can be operated while in the charger and this unit is PAC RT compatible. The vehicular charger consists of a console, mounting hardware and supply cable.

- WPLN4208 Vehicular Charger



WPLN4208



WPLN4111\_R

## 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

WPLN4111\_R IMPRES Single-Unit Charger, 110 Volt, US Plug  
 WPLN4112\_R IMPRES Single-Unit Charger, 220 Volt, Euro Plug  
 WPLN4113\_R IMPRES Single-Unit Charger, 240 Volt, UK Plug  
 5889254E01 Battery Adapter. Required for NTN4538\_R, NTN4593\_R, NTN7014\_R and NTN8818 batteries.

### IMPRES™ Multi-Unit Chargers

WPLN4108\_R IMPRES Multi-Unit Charger, 110 Volt, US Plug  
 WPLN4109\_R IMPRES Multi-Unit Charger, 220 Volt, Euro Plug  
 WPLN4110\_R IMPRES Multi-Unit Charger, 240 Volt, UK Plug  
 NLN7967 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.

WPLN4130 IMPRES Multi-Unit Charger with Display Modules, 110 Volt, US Plug  
 WPLN4131\_R IMPRES Multi-Unit Charger with Display Modules, 220 Volt, Euro Plug  
 WPLN4132\_R IMPRES Multi-Unit Charger with Display Modules, 240 Volt, UK Plug  
 NLN7967 Wall Mount for Multi-Unit Charger

### IMPRES™ Individual Charger Display Module

This module is compatible with the standard IMPRES™ Multi-Unit Charger WPLN4108\_R, WPLN4109\_R and WPLN4110\_R. Up to 6 modules can be used per charger, one for each charging pocket. Includes detailed installation instructions.

RLN5382 Charger Display Module for IMPRES Multi-Unit Charger Version 1.3 or Later.

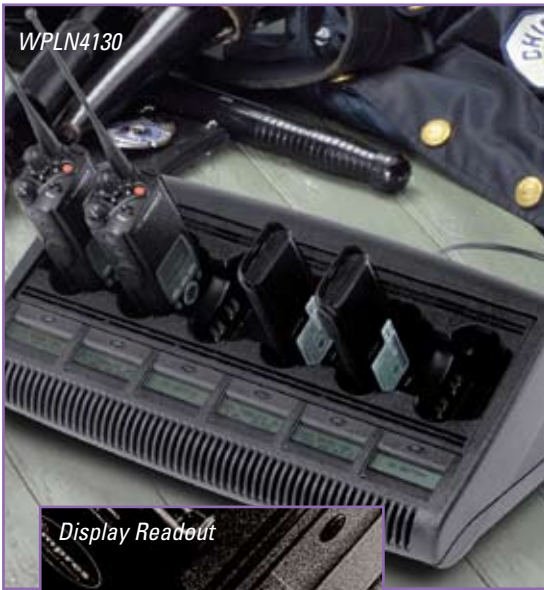
Note: Display Modules compatible with Multi-Unit Charger version 1.2 or earlier require a software flash update.

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.

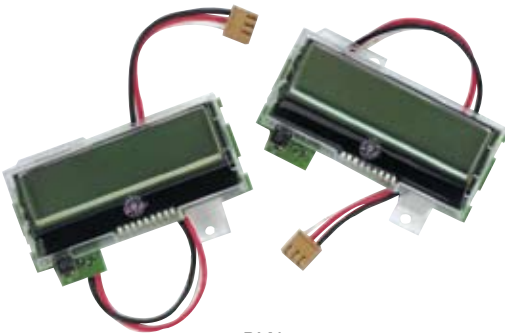
0180305J70 IMPRES CD



WPLN4130



Display Readout



RLN5382

## essential power systems...

### 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).

WPLN4079_R	6-Station BMS <sup>PLUS</sup> , 110 Volt AC, 50/60 Hz, US Plug
WPLN4080_R	6-Station BMS <sup>PLUS</sup> , 230 Volt AC, 50/60 Hz, Euro Plug
WPLN4081_R	6-Station BMS <sup>PLUS</sup> , 230 Volt AC, 50/60 Hz, UK Plug
WPPN4085_R	BMS <sup>PLUS</sup> Li-Ion Field Upgrade Kit Upgrades WPLN4079AR, WPLN4080_R, WPLN4081_R. Allows units to support Li-Ion batteries.
NDN4005	3-Station BMS, 110 Volt AC, 50/60 Hz Does not support Li-Ion or 3-cell batteries.
NDN4006	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

WPPN4097_R	NiCd and NiMH Adapter, 7.5 Volt
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### 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.

WPLN4124_R	BOS II, 4-Station, 90-264 Volt AC, US Plug. Adapter Plates Required.
WPLN4125_R	BOS II, 4-Station, 90-264 Volt AC, Euro/UK Plug. Adapter Plates Required.
RL_76341	Standard Battery Adapter. For use with XTS 2500 radios.

- 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



## 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

Antenna has a one-piece finish and steel core for optimal strength and better radiation characteristics. Provides more comfort when radio is worn on the belt.

- NAE6549\_R      7 Inch Flexible Whip Antenna, 403-520 MHz
- 8505241U03    7 Inch Flexible Whip Antenna, 806-870 MHz
- 8505241U11    7 Inch Flexible Whip Dual Band Antenna, 764-870 MHz

## Stubby

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

- 8505241U06      4 Inch Stubby Antenna, 806-941 MHz



8505644V01



8505644V03

## Helical

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.

- 8505644V01      6 Inch Helical Antenna, 136-151 MHz
- 8505644V02      6 Inch Helical Antenna, 151-162 MHz
- 8505644V03      6 Inch Helical Antenna, 162-174 MHz
- NAE6546\_R      3 Inch Helical Antenna, 403-435 MHz
- NAE6547\_R      3 Inch Helical Antenna, 435-470 MHz
- NAE6548\_R      3 Inch Helical Antenna, 470-520 MHz

# ASTRO® XTL 1500/ XTL 2500/ XTL 5000 mobiles

## **Crowd Control**

Keeping people away from potential dangers is a task made easier with Speakers on board each vehicle.

## **Crisis Situations**

Day one calls for on-scene decisions. Day two moves command to a situation room. Control Station Accessories make it easy to convert radios for inside use.

## **Utility Repairs**

Maximizing worker safety in high-crime areas is a number one priority, and an Emergency Switch is a ready solution if an alarm or help message needs to be sent.

## **Emergency Response**

If just one number is heard wrong, help may not get to the correct address on time. An External Speaker can help make everything clear under noisy conditions.





*"This is car 67...*

*EMS's expected ETA  
is twenty-four fifteen,  
fire department is on  
the scene."*

*high performance, quality, reliability  
and interoperability in daily communications...*

*ASTRO® XTL™ 1500, XTL 2500 and XTL 5000 mobile radios are ideal for demanding environments — law enforcement, fire, EMS, government agencies, construction and more. That's because they support Project 25 and stand up to your toughest challenges. All models are capable of integrated voice and data service, and accept FLASHport™ software upgrades so you can add features as your communication needs evolve.*

# audio and control station

## Microphones and Accessories

HMN4079	Keypad Microphone
HMN1090	Standard Palm Microphone
HMN1087	Gooseneck Push-to-Talk Attaches to vehicle steering column. For use with Visor Microphone.
HMN4089	Visor Microphone, Remote Mount
HMN1089	Modified GCAI Palm Microphone Water-resistant.
HLN1457	Handset with Hang Up Cup with Coiled Cable. Includes cradle.
HKN1018	Hang Up Handset with Normal Armoured Cable
HLN1457	Handset with Hang Up Cup

## External Speaker

Provides audio for high ambient noise environments.

HSN4038	External 7.5 Watt Speaker
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## Motorcycle Speaker

HSN6003	Motorcycle Speaker Weather-resistant.
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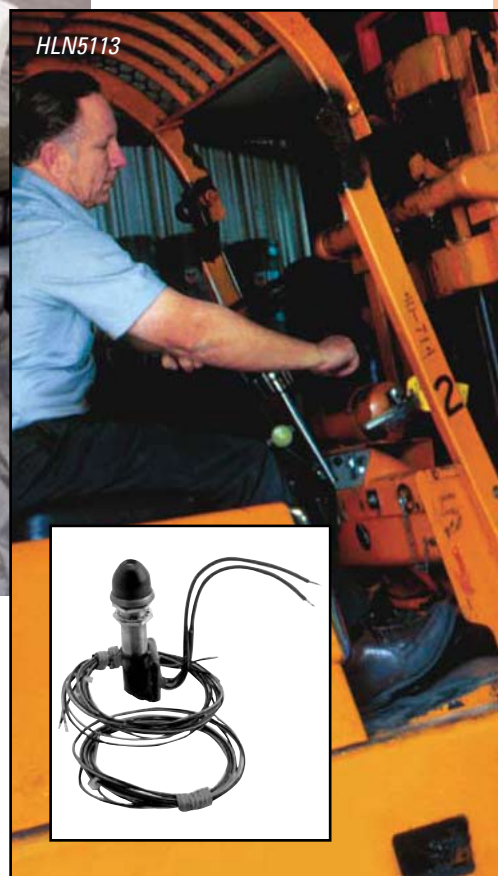


## Trunnion Kits

HKN6186	Control Head Remote Mount Trunnion Kit
HLN6909	Quick Release, High Power Trunnion Kit
HLN6910	High Power Trunnion Kit For XTL 5000 05 only.
HLN6861	Standard Installation Trunnion Kit



Control Station accessories make the ASTRO XTL 5000 05 a desktop command center. From left to right are Control Station Power Supply HPN4007, Control Station Tray HLN6042 and Desktop Microphone HMN1088.



HLN5113

### Control Station Accessories

- RMN5070      GCAI Desk Microphone
- HLN6042      Desk Tray with Speaker
- HLN6925      Control Station Mount
- HPN4007      Power Supply, 25-60 Watt Rated.

### Emergency Switches

These switches enable the user to send an emergency message to a desktop console, where the signalling unit ID number is displayed and an alarm is sounded.

- HLN5113      Emergency Foot Switch
- HLN5131      Emergency Push Button
- GLN7278      Foot Switch Push-to-Talk

### Miscellaneous Hardware

- HLN6372      Key Lock Mount



HLN6372

The Emergency Foot Switch HLN5113 enables the user to send an emergency message to a desktop console.

# 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® audio accessories should be the go-to choice.



## *Power Cables*

HKN4191	10-Foot Power Cable
HKN4192	20-Foot Power Cable
HKN6032	Motorcycle Power Cable
HKN6110	100-Watt Power Cable

## *Remote Mount Cables*

HKN6164	131-Foot Remote Mount Cable – 40 meters
HKN6165	115-Foot Remote Mount Cable – 35 meters
HKN6166	75-Foot Remote Mount Cable – 23 meters
HKN6167	50-Foot Remote Mount Cable – 15 meters
HKN6168	30-Foot Remote Mount Cable – 10 meters
HKN6169	17-Foot Remote Mount Cable – 5 meters
HKN6170	10-Foot Remote Mount Cable – 3 meters

## *Remote Mount Kits*

HKN6161	20-Foot Dash Mount Data Cable Kit - IV&D
HKN6160	6-Foot Dash Mount Data Cable Kit - IV&D

## *Miscellaneous Cables*

GKN6271	Ignition Sense Cable
HKN6182	Cable Keyloading Adapter - GCAI



*HAD4006*

*HAE4003*

**Antennas**

- HAD4006 136-144 MHz 1/4 Wave Roof Mount Antenna
- HAD4007 144-152 MHz 1/4 Wave Roof Mount Antenna
- HAD4008 152-162 MHz 1/4 Wave Roof Mount Antenna
- HAD4009 162-174 MHz 1/4 Wave Roof Mount Antenna
- HAD4017 146-174 MHz 1/4 Wave Roof Mount Antenna
- RAD4010\_RB 136-174 MHz 3.0dB Wave Roof Mount Antenna

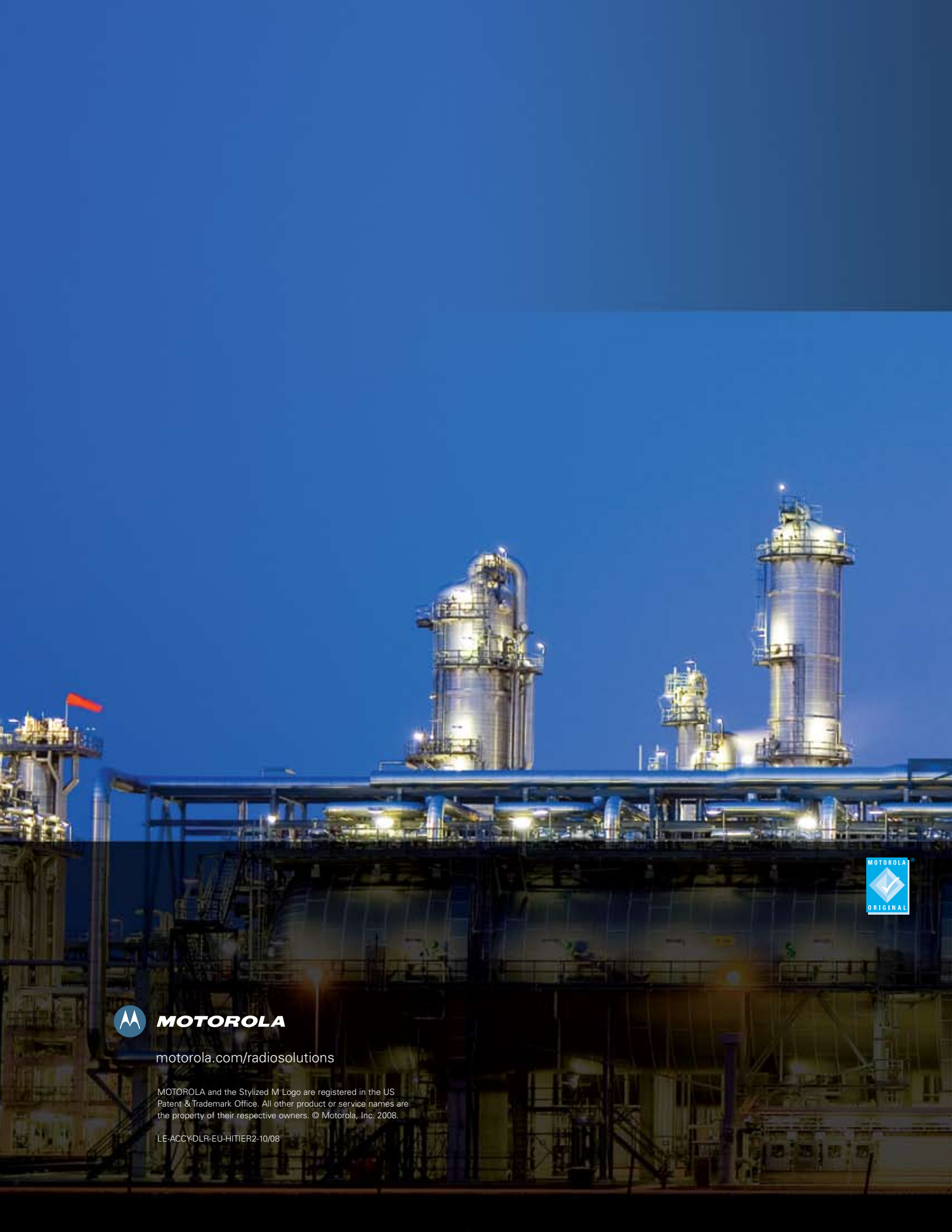
**V H F**

- HAE4003 450-470 MHz 1/4 Wave Roof Mount Antenna
- HAE4004 470-512 MHz 1/4 Wave Roof Mount Antenna
- HAE4011 450-470 MHz 3.5dB Gain Roof Mount Antenna
- HAE4012 470-495 MHz 3.0dB Gain Roof Mount Antenna
- HAE4013 494-512 MHz 3.0dB Gain Roof Mount Antenna
- RAE4014 450-470 MHz 5.0dB Gain Roof Mount Antenna
- RAE4014\_RB 450-470 MHz 5.0dB Gain Roof Mount Antenna
- RAE4016\_RB 494-512 MHz 5.0dB Gain Roof Mount Antenna
- HAE6010 380-433 MHz 3.5dB Gain Roof Mount Antenna
- HAE6011 380-433 MHz 5.0dB Gain Roof Mount Antenna
- HAE6012 380-433 MHz 1/4 Wave Roof Mount Antenna
- HAE6013 380-470 MHz Wideband 2.0dB Roof Mount Antenna

**U H F**

- HAF4013 762-870 MHz 3.0dB Gain Low Profile Antenna
- HAF4014 762-870 MHz 3.0dB Gain Elevated Feed Antenna
- HAF4016 762-870 MHz 1/4 Wave Roof Mount Antenna
- HAF4017 762-870 MHz 3.0dB Gain Collinear Roof Mount Antenna

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