



## ACCESSORIES

### Audio for Ear Microphone System (EMS)

- BDN6646C EMS with PTT Interface
- BDN6706B EMS with Voice Activated/PTT Interface
- 0180300E83 Body Switch PTT
- 0180358B38 Ring Switch PTT
- 0180300E25 Earguard with Adjustable Loop
- 0180358B32 Earholder for EMS (S, black)
- 0180358B33 Earholder for EMS (M, black)
- 0180358B34 Earholder for EMS (L, black)
- 0180358B35 Earholder for EMS (S, clear)
- 0180358B36 Earholder for EMS (M, clear)
- 0180358B37 Earholder for EMS (L, clear)



Earholder for Ear Microphone System



HMN9036A  
Earbud with Microphone and PTT



HMN9030A

Remote Speaker Microphone with Coil Cord and Swivel Clip

### Microphones and Headsets

- HMN9030A Remote Speaker Microphone with Coil Cord, Swivel Clip
- BDN6720A Flexible Ear Receiver, Black
- PMMN4001A Ultra-Light Earpiece with Microphone, In-line PTT
- RLN5411A Ultra-Lightweight, Behind-the-Head, Headset
- RMN4016A Lightweight Headset with In-line PTT
- RLN5238A NFL® Style Lightweight Headset
- HMN9013A Adjustable Headset with Swivel Boom Microphone
- BDN6647G Medium Weight, Single-Muff Headset
- HMN9021A Medium Weight, Over-the-Head, Dual-Muff Headset
- HMN9022A Medium Weight, Behind-the-Head, Dual-Muff Headset
- RMN5015A Racing Headset
- RMN5047A NFL® Style Heavy-Duty Headset
- BDN6648C Heavy-Duty Headset
- RMN4051B Hardhat Mount Headset, Black
- RMN4052B Tactical Headband-Style Headset, Gray
- RMN4053B Tactical Hardhat Mount Headset, Gray
- RKN4090A Radio Adapter Cable
- For use with RMN5015A Racing Headset
- RKN4094A Adapter Cable with In-line PTT
- For use with RMN4051B, RMN4052B, RMN4053B
- RLN5500A Accessory Retainer Clip

### Mag One Microphone and Audio

- PMLN4442A Mag One Earbud with Mic/PTT/VOX Switch
- PMLN4443AB Mag One Ear Receiver with Mic/PTT/VOX Switch
- PMLN4444A Mag One Earset Boom Microphone with PTT/VOX
- PMLN4445A Mag One Headset with PTT/VOX Switch
- PMMN4008A Mag One Remote Speaker Microphone

### Chargers and Batteries

- WPLN4138AR Single-Unit, 90 Minute, Rapid-Rate, Tri-Chemistry Desktop Charger
- EPNN7997A 10-Hour Plug-in Charger
- For use with NNTN4496AR NiCd battery only
- WPLN4161AR 6-Pocket, Rapid-Rate, Multi-Unit Charger
- WPLN4155R 10-Hour Desktop Charger
- For use with NNTN4496AR NiCd battery only
- NNTN4497AR 1800 mAh, Li-ion Battery
- NNTN4496AR 1100 mAh, NiCd Battery
- NNTN4851A\*\* 1400 mAh, NiMH Battery
- NNTN4970A\*\* 1600 mAh, Slim Li-ion Battery

\*\*For use with WPLN4138\_R and WPLN4161\_R

### Carry Accessories

- RLN5383A Leather Case with Belt Loop and D-Rings
- RLN5384B Leather Case with 2.5 Inch Swivel Loop and D-Rings
- RLN5385B Leather Case with 3 Inch Swivel Loop and D-Rings
- HLN9701B Nylon Case with Belt Loop and D-Rings
- HLN9985B Waterproof Bag
- HLN6602A Universal Chest Pack
- RLN5644A 2 Inch Spring Action Clip
- HLN8255B 3 Inch Spring Action Clip
- TDN9327A Portable Radio Hanger
- For door panels up to 2.75 inches thick
- TDN9373A Portable Radio Hanger
- For door panels from 2.75 to 3.25 inches thick

RLN5385B



### Audio Surveillance

- HMN9036A Earbud with Microphone and PTT
- HMN9036AP Earbud with Microphone and PTT Resale Packaged
- HLN9132A Single-Wire Receive-Only Earbud
- BDN6720A Black Flexible Ear Receiver
- BDN6720AP Black Flexible Ear Receiver Resale Packaged
- HMN9727B Beige Receive-Only Earpiece
- HMN9727BP Beige Receive-Only Earpiece Resale Packaged
- RLN4894A Black Receive-Only Earpiece
- RLN5198AP Beige Two-wire Surveillance Kit Resale Packaged
- NTN8370A Extreme Noise Kit
- NTN8371A Low Noise Kit
- RLN4760A\* Clear Comfortable Earpiece (S, right ear)
- RLN4761A\* Clear Comfortable Earpiece (M, right ear)
- RLN4762A\* Clear Comfortable Earpiece (L, right ear)
- RLN4763A\* Clear Comfortable Earpiece (S, left ear)
- RLN4764A\* Clear Comfortable Earpiece (M, left ear)
- RLN4765A\* Clear Comfortable Earpiece (L, left ear)

\*Requires NTN8371A Clear Acoustic Tube Assembly and a Motorola Surveillance Kit

### Antennas

- NAD6502AR VHF Heliflex, 150-162 MHz
- HAD9742A VHF Stubby, 146-162MHz
- HAD9743A VHF Stubby, 162-174 MHz
- NAE6483AR UHF Flexible Whip, 403-512 MHz
- NAE6522AR UHF Heliflex Stubby, 438-470 MHz
- 8505816K26 UHF Heliflex Stubby, 470-512 MHz



NTN8370A  
Extreme Noise Kit



NTN8371A  
Low Noise Kit



# CP150™/CP200™

Portable Series Two-Way Radios  
2 Year Standard Warranty

## CP150/CP200 Features

- **4/16 Conventional Channels**
- **Large Rotary Channel Selector**  
*Changes channels quickly and easily*
- **Rotary On/Off and Volume Control**
- **Tricolor LED**  
*Indicates radio status and battery levels*
- **Accessory Connector**  
*Convenient access for audio accessories*
- **3 Inch Spring Action Belt Clip**  
*Attaches radio firmly to belt*
- **Rugged, Die-Cast Chassis**  
*With polycarbonate housing for greater protection*
- **Large, Textured Push-to-Talk Button**  
*Easy to find and use, even when wearing gloves*
- **Two Programmable Option Buttons**  
*Supports your choice of up to four product features*
- **Privacy Codes**  
*42 standard TPL codes, 84 standard DPL codes and non-standard codes*
- **System Scan and Auto Scan**
- **Single Priority Scan**  
*Frequently scans higher priority channel*
- **Battery Latch Lock Secures battery**

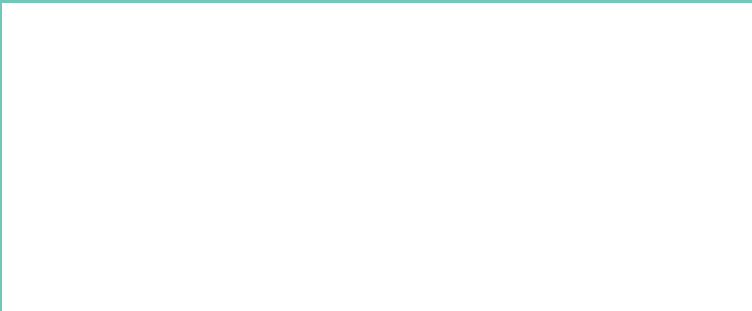
## CP200 - Additional Features

### Programmable

In addition to the above features, the CP200 portable radio offers the following signaling features:

- **Selective Call/Call Alert**  
*Using Motorola's Quick-Call II™ signaling, lets individuals or groups receive selective pages via radio tones.*
- **Push-to-Talk ID**  
*Using Motorola's MDC data signaling sends unique ID information when transmitting.*

For more information, contact:



SPECIFICATIONS

## CP150™/CP200™ Portable Two-Way Radio Specifications\*

### General Specifications

	VHF	UHF
Frequency:	136-162 MHz (CP200 only) 146-174 MHz	438-470 MHz, 403-440 MHz, 465-495 MHz (CP200 only)
Channel Capacity:	4 or 16 Channels	4 or 16 Channels
Power Supply:	7.2 Volts ± 20%	7.2 Volts ± 20%
Dimensions: with 1100 mAh NiCd and 1800 mAh Li-ion Batteries:	127.5mm H x 61.5mm W x 45mm D (5.0" H x 2.4" W x 1.75" D)	127.5mm H x 61.5mm W x 45mm D (5.0" H x 2.4" W x 1.75" D)
with 1400 mAh NiMH Battery:	127.5mm H x 61.55mm W x 43mm D (5.0" H x 2.4" W x 1.69" D)	127.5mm H x 61.55mm W x 43mm D (5.0" H x 2.4" W x 1.69" D)
with 1600 mAh Slim Li-ion Battery:	127.5mm H x 61.55mm W x 42mm D (5.0" H x 2.4" W x 1.65" D)	127.5mm H x 61.55mm W x 42mm D (5.0" H x 2.4" W x 1.65" D)
Weight: with 1800 mAh Li-ion Battery:	370g (13.04 oz.)	370g (13.04 oz.)
with 1600 mAh Slim Li-ion Battery:	374g (13.19 oz.)	374g (13.19 oz.)
with 1400 mAh NiMH Battery:	444g (15.66 oz.)	444g (15.66 oz.)
with 1100 mAh NiCd Battery:	425g (14.98 oz.)	425g (14.98 oz.)
Average Battery Life @ 5-5-90 Duty Cycle:	2W 1800 mAh Li-ion: 17 Hrs. 1600 mAh Slim Li-ion: 14 Hrs. 1400 mAh NiMH: 11 Hrs. 1100 mAh NiCd: 9 Hrs.	4W (CP200 only) 14 Hrs. 12 Hrs. 10 Hrs. 8 Hrs.
FCC Designation:	ABZ99FT3045, ABZ99FT3039 (CP200 only)	ABZ99FT4056, ABZ99FT4057 (CP200 only), ABZ99FT4058 (CP200 only)

### Receiver Specifications

	VHF 12.5 kHz	VHF 20/25/30 kHz	UHF 12.5 kHz	UHF 20/25/30 kHz
Sensitivity: (12 dB EIA SINAD)	0.25 uV (typical)	0.25 uV (typical)	0.25 uV (typical)	0.25 uV (typical)
Adjacent Channel Selectivity:	-65 dB	-70 dB	-60 dB	-70 dB
Intermodulation:	-70 dB	-70 dB	-70 dB	-70 dB
Frequency Stability: (-30° C to +60° C)	0.00025%	0.00025%	0.00025%	0.00025%
Spur Rejection:	-75 dB	-75 dB	-75 dB	-75 dB
Image and 1/2 I-F Rejection:	-70 dB	-70 dB	-70 dB	-70 dB
Audio Output @ < 5% Distortion:	500mW	500mW	500mW	500mW

### Transmitter Specifications

	VHF Low 2W	VHF High 5W	UHF Low 2W	UHF High 4W
Channel Spacing:	12.5/20/25 kHz	12.5/20/25 kHz	12.5/20/25 kHz	12.5/20/25 kHz
Frequency Stability: (-30° C to +60° C)	0.00025%	0.00025%	0.00025%	0.00025%
Spurs/Harmonics:	-36 dBm < 1 GHz -30 dBm > 1 GHz	-36 dBm < 1 GHz -30 dBm > 1 GHz	-36 dBm > 1 GHz -30 dBm > 1 GHz	-36 dBm > 1 GHz -30 dBm > 1 GHz
Audio Response: (from 6 dB/oct. Preemphasis, 300 to 3000 Hz)	+1, -3 dB	+1, -3 dB	+1, -3 dB	+1, -3 dB
Audio Distortion: @ 1000 Hz, 60% Rated Max. Dev.	<3%	<3%	<3%	<3%
FM Noise:	-40 dB (12.5 kHz) -45 dB (25 kHz)	-40 dB (12.5 kHz) -45 dB (25 kHz)	-40 dB (12.5 kHz) -45 dB (25 kHz)	-40 dB (12.5 kHz) -45 dB (25 kHz)
FCC Modulation:	20/25/30 kHz 12.5 kHz	16K0F3E 11K0F3E	16K0F3E 11K0F3E	16K0F3E 11K0F3E

### CP150/CP200 Portable Military Standards

	810C Methods	810C Procedures	810D Methods	810D Procedures	810E Methods	810E Procedures	810F Methods	810F Procedures
Low Pressure:	500.1	1	500.2	2	500.3	2	500.4	1
High Temperature:	501.1	1, 2	501.2	1, 2	501.3	1, 2	501.4	1, 2
Low Temperature:	502.1	1	502.2	1, 2	502.3	1, 2	501.4	1, 2
Temperature Shock:	503.1	1	503.2	1	503.3	1	503.4	1
Solar Radiation	505.1	1	505.2	1	505.3	1	505.4	1
Rain:	506.1	1, 2	506.2	1, 2	506.3	1, 2	506.4	1
Humidity	507.1	2	507.2	2, 3	507.3	2, 3	507.4	3
Salt Fog:	509.1	1	509.2	1	509.3	1	509.4	1
Dust:	510.1	1	510.2	1	510.3	1	510.4	1
Vibration:	514.2	8, 10	514.3	1	514.4	1	514.5	1
Shock:	516.2	1, 2, 5	516.3	1, 4	516.4	1, 4	516.5	1

### Accelerated Life Test

Motorola's Accelerated Life Test (ALT) is a developmental process of rigorous laboratory testing that simulates years of field use. Motorola has a firm commitment to quality and reliability. These radios have been designed, manufactured and tested to achieve high levels of component and workmanship quality. Motorola radios are designed to minimize costly repairs and downtime.

\*All specifications subject to change without notice.



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