MOTOROLA

CP150™ and CP200™ Portable Series Two-Way Radios

Ideal for Education Professionals Small Business and More...

STANDARD 2 YEAR WARRANTY

- **4/16 Conventional Channels**

- **Large Rotary Channel Selector**
  Changes channels quickly and easily

- **Rotary On/Off and Volume Control**

- **Tricolor LED**
  Indicates radio status/battery level

- **Accessory Connector**

- **3 Inch Spring Action Belt Clip**

- **Rugged, Die-Cast Chassis**
  With durable polycarbonate housing

- **Large, Textured Push-to-Talk Button**
  Easy to use when wearing gloves

- **Two Programmable Option Buttons**
  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**
  Frequent Priority Channel Scans

- **Battery Latch Lock Secures Battery**

CP200
Additional Programmable Features
In addition, the CP200 portable radio offers the following signaling features:

- **Selective Call/Call Alert**
  Quick-Call II™ signaling, lets individuals or groups receive selective pages via tones.

- **Push-to-Talk ID**
  MDC data signaling sends unique ID information when transmitting.

CP150™ and CP200™
Portable Series Two-Way Radios

Solve Communication Challenges

High Performance at a Competitive Price

Radius CP150™ and C200™ portable two-way radios deliver the quality features you want at a competitive price. The lightweight, ergonomic design makes these radios comfortable to carry and operate, even while wearing gloves. Programmable option buttons make it easy for you to customize your radio with a choice of features. And a range of battery choices along with rapid recharging capabilities help ensure your radio will be ready when you are.

No question, CP150 and CP200 radios will get plenty of use: their ergonomic features and lightweight design make them the constant companions of retail, hospitality, education, and security professionals. And with this collection of high-performance accessories, you can easily tailor CP150 and CP200 radios to your exact working requirements.

Education

Managing administration or security on large campuses requires keeping in touch with your colleagues. The CP150 and CP200 portable radios give you easy contact with colleagues who can help you keep everything under control.

Hospitality

Whether you're coordinating staff for a conference or requesting a quick room change for a last-minute guest, you need communication that won't slow you down. These portable radios are comfortable enough to use and carry all day long.

Retail

In the retail industry, great customer service depends on fast response. The CP150 and CP200 radios let you connect at the touch of a button with store or stockroom personnel to get the information you need – when you need it.

Security

When an alarm signals illegal entry into the building you're securing, you don't have a moment to lose. The CP150 and CP200 radios give you the up-to-the-minute communication you need to alert coworkers or request backup at the touch of a button.

Accessories Make Sure Your Radios are Ready for Action...

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

Audio Surveillance

HMN9036A	Earbud with Microphone and PTT
HLN9132A	Single-Wire Receive-Only Earbud
BDN6720A	Black Flexible Ear Receiver
HMN9727B	Beige Receive-Only Earpiece
RLN4894A	Black Receive-Only Earpiece
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)
HMN9752B	Beige Receive-Only Earpiece with Volume Control
HMN9754D	Beige, Two-wire Earpiece with Microphone and PTT
RLN4895A	Black, Two-wire Earpiece with Microphone and PTT

*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

Microphones and Headsets

HMN9030A	Remote Speaker Microphone with Coil Cord, Swivel Clip
PMMN4001A	Ultra-Light Earpiece with Microphone, In-line PTT
RLN5411A	Ultra-Lightweight, Behind-the-Head, Headset
RMN4016A	Lightweight Headset with In-line PTT
RLN5238A	Single-Muff NFL® Style Lightweight Headset with Swivel Boom Microphone
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	Single-Muff NFL® Style Heavy-Duty Headset with Swivel Boom Microphone
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 Audio Accessories

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 w/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

HMN9036A
Earbud with Microphone and Push-to-Talk

HMN9030A
Remote Speaker Microphone

RMN5015A
Racing Headset

HMN9013A
Adjustable Headset with Swivel Boom Mic

Specifications

GENERAL	VHF		UHF	
Frequency:	136-162 MHz (CP200 only)		438-470 MHz,	
	146-174 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 H x W x D:				
with 1100 mAh NiCD and 1800 mAh Li-ion Batteries:	127.5 x 61.5 x 45mm (5.0 x 2.4 x 1.75 inches)		127.5 x 61.5 x 45mm (5.0 x 2.4 x 1.75 inches)	
with 1400 mAh NiMH Battery:	127.5 x 61.55 x 43mm (5.0 x 2.4 x 1.69 inches)		127.5 x 61.55 x 43 (5.0 x 2.4 x 1.69 inches)	
with 1600 mAh Slim Li-ion Battery:	127.5 x 61.55 x 42mm (5.0 x 2.4 x 1.65 inches)		127.5 x 61.55 x 42mm (5.0 x 2.4 x 1.65 inches)	
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	5W (CP200 only)	2W	4W (CP200 only)
1800 mAh Li-ion:	17 Hrs.	14 Hrs.	17 Hrs.	14 Hrs.
1600 mAh Slim Li-ion:	14 Hrs.	12 Hrs.	14 Hrs.	12 Hrs.
1400 mAh NiMH:	11 Hrs.	10 Hrs.	11 Hrs.	10 Hrs.
1100 mAh NiCD:	9 Hrs.	8 Hrs.	9 Hrs.	8 Hrs.
FCC Designation: (CP200 only)	ABZ99FT3045, ABZ99FT3039		ABZ99FT4056, ABZ99FT4057 (CP200 only), ABZ99FT4058	

RECEIVER	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	VHF	VHF	UHF	UHF
RF Output:	Low: 2W	High: 5W	Low: 2W	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	-36 dBm < 1 GHz	-36 dBm > 1 GHz	-36 dBm > 1 GHz
	-30 dBm > 1 GHz	-30 dBm > 1 GHz	-30 dBm > 1 GHz	-30 dBm > 1 GHz
Audio Response:	+1, -3 dB	+1, -3 dB	+1, -3 dB	+1, -3 dB
(from 6 dB/oct. Premphasis, 300 to 3000 Hz)				
Audio Distortion:	<3%	<3%	<3%	<3%
@ 1000 Hz, 60% Rated Max. Dev.				
FM Noise:	-40 dB (12.5 kHz)	-40 dB (12.5 kHz)	-40 dB (12.5 kHz)	-40 dB (12.5 kHz)
	-45 dB (25 kHz)	-45 dB (25 kHz)	-45 dB (25 kHz)	-45 dB (25 kHz)
FCC Modulation: 20/25/30 kHz	16KOF3E	16KOF3E	16KOF3E	16KOF3E
12.5 kHz	11KOF3E	11KOF3E	11KOF3E	11KOF3E

PORTABLE MILITARY STANDARDS 810 C, D, E & F

	MIL-STD 810C Method: Proc/Cat	MIL-STD 810D Method: Proc/Cat	MIL-STD 810E Method: Proc/Cat	MIL-STD 810F Method: Proc/Cat
Low Pressure:	500.1: I	500.2: II	500.3: II	500.4: I
High Temp:	501.1: I, II	501.2: I, II	501.3: I, II	501.4: I, II
Low Temp:	502.1 I	502.2: I, II	502.3: I, II	502.4: I, II
Temp. Shock:	503.1: I	503.2: I/A1C3	503.3: I/A1C3	503.4: I
Solar Radiation:	505.1: I	505.2: I, II	505.3: I	505.4: I
Rain:	506.1: I, II	506.2: I, II	506.3: I, II	506.4: I
Humidity:	507.1: II	507.2: II, III	507.3: II, III	507.4: III
Salt Fog:	509.1: I	509.2: I	509.3: I	509.4: I
Blowing Dust:	510.1: I	510.2: I	510.3: I	510.4: I
Vibration:	514.2: VIII/F,	514.3: I/10, II/3	514.4: I/10, II/3	514.5: I/24
Shock:	516.2: I, II, V	516.3: I, IV	516.4: I/IV	516.5: I

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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