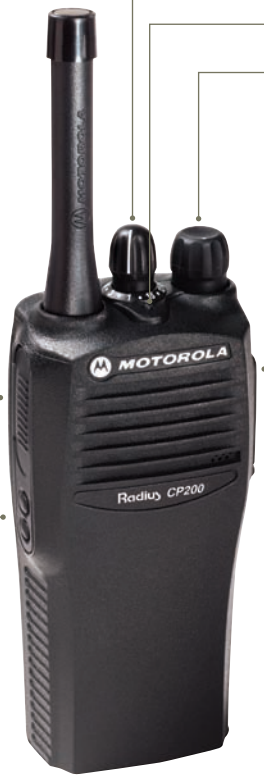
SPECIFICATION SHEET

CP200

Portable Two-way Radio



- Large Rotary Channel Selector
- Tricolor LED
- Rotary On/Off and Volume Control
- Accessory Connector
- Rugged, Die-Cast Chassis
- 3 Inch Spring Action Belt Clip
  Located on radio back
- Battery Latch Lock
  Located on radio bottom

- Large, Textured Push-to-Talk Button
- Two Programmable Option Buttons
  Supports a choice of up to four favorite functions with short/long press

All CP200 models include:

- Li-Ion 2250 mAh Battery
- Rapid Rate Charger
- Antenna – VHF Heliflex or UHF Whip
- 3 Inch Belt Clip
- Safety and Warranty Booklet
- 2-Year Warranty

CP200 Portable 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 Include:
  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
- Quik-Call II™ Signaling
  Call Alert
  Selective Call
- MDC 1200 Signaling
  Selective Radio Inhibit
  Radio Check
  Selective Inhibit
  Push-to-Talk ID
- DTMF Signaling
  DTMF Push-to-Talk ID
- 2-year Standard Warranty

Programmable Features: Choose up to 4

- Sticky Monitor/Monitor
- VOX
- Power Level
- Repeater/Talk Around
- Squelch
- Scan
- Nuisance Channel Delete

Ergonomic design and simple operation.
The design and simple operation of the CP200 portable two-way radio makes it ideal for education, hospitality, retail, manufacturing and security organizations. This radio features a large, textured push-to-talk button, X-Pand™ technology for crisp, clear audio and two programmable buttons for quick access to frequently used features—all in a lightweight, durable design.

SPECIFICATIONS

GENERAL SPECIFICATIONS

	CP200 VHF	CP200 UHF
Frequency	136-162 MHz 146-174 MHz	403-440 MHz 438-470 MHz 465-495 MHz
Channel Capacity	4 or 16 Channels	
Power Supply	7.5 Volts ± 20%	
Dimensions with Battery		
2250 mAh Li-Ion	127.5 x 61.50 x 45mm (5.0 x 2.4 x 1.75 inches)	
1600 mAh Slim Li-Ion	127.5 x 61.55 x 42mm (5.0 x 2.4 x 1.65 inches)	
1400 mAh NiMH	127.5 x 61.55 x 43mm (5.0 x 2.4 x 1.69 inches)	
950 mAh NiCd	127.5 x 61.50 x 45mm (5.0 x 2.4 x 1.75 inches)	
Weight with Battery		
2250 mAh Li-Ion	370 g (13.04 oz)	
1600 mAh Slim Li-Ion	374 g (13.19 oz)	
1400 mAh NiMH	444 g (15.66 oz)	
950 mAh NiCd	425 g (14.98 oz)	
Average Battery Life[1]	1W / 5W	1W / 4W
2250 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
950 mAh NiCd	9 Hrs / 8 Hrs	9 Hrs / 8 Hrs
FCC Designation	ABZ99FT3039 ABZ99FT3045	ABZ99FT4056 ABZ99FT4057 ABZ99FT4058

RECEIVER SPECIFICATIONS

	CP200 VHF		CP200 UHF	
Frequency	12.5 kHz	20/25/30 kHz[3]	12.5 kHz	20/25/30 kHz[3]
	136-162 MHz 146-174 MHz		403-440 MHz 438-470 MHz 465-495 MHz	
Sensitivity[2] (12dB EIA SINAD)	0.25 µV		0.25 µV	
Adjacent Channel Selectivity[2]	-65 dB	-70 dB	-60 dB	-70 dB
Intermodulation[2]	-70 dB	-70 dB	-70 dB	-70 dB
Frequency Stability[2] (-30° to +60° C)	0.00025%		0.00025%	
Spurious Rejection[2]	-75 dB		-75 dB	
Image and 1/2 I-F Rejection[2]	-70 dB		-70 dB	
Audio Output[2] @ < 5% Distortion	500mW		500mW	

TRANSMITTER SPECIFICATIONS

	CP200 VHF	CP200 UHF
RF Output	1W / 5W	1W / 4W
Frequency	136-162 MHz 146-174 MHz	403-440 MHz 438-470 MHz 465-495 MHz
Channel Spacing	12.5/20/25 kHz[3]	
Frequency Stability (-30° to +60° C)	0.00025%	
Spurs/Harmonics[2]	-36 dBm < 1 GHz, -30 dBm > 1 GHz	
Audio Response[2] From 6dB/octave Premphasis, 300 to 3000 Hz	+1, -3 dB	
Audio Distortion2[2] @ 1000 Hz, 60% Rated Maximum Deviation	< 3%	
FM Noise[2]	-40 dB (12.5 kHz) -45 dB (25 kHz)[3]	
FCC Modulation 20/25/30 kHz[3]	16KOF3E	16KOF3E
12.5 kHz	11KOF3E	11KOF3E

PORTABLE MILITARY STANDARDS 810 C, D, E and F

	MIL-STD 810C		MIL-STD 810D		MIL-STD 810E		MIL-STD 810F	
	Method	Procedures	Method	Procedures	Method	Procedures	Method	Procedures
Low Pressure	500.1	I	500.2	II	500.3	II	500.4	I
High Temperature	501.1	I, II	501.2	I, II	501.3	I, II	501.4	I, II
Low Temperature	502.1	I	502.2	I, II	502.3	I, II	501.4	I, II
Temperature Shock	503.1	I	503.2	I	503.3	I	503.4	I
Solar Radiation	505.1	I	505.2	I	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, X	514.3	I	514.4	I	514.5	I
Shock	516.3	I, II, V	516.3	I, IV	516.4	I, IV	516.5	I

[1] 5% receive, 5% transmit, 90% standby.

[2] All electrical specifications and methods refer to EIA/TIA 603 standards. Specifications shown are typical and subject to change without notice.

[3] 25 kHz not available in the US on new equipment after 1/1/2011.

Version 2 12/09

ENVIRONMENTAL

Operating Temperature	-30° to +60° C
Storage Temperature	-40° to +85° C
ESD	IEC 801-2 KV
Thermal Shock	-40° to +80° C
Humidity	95% RH @ 8 Hour
Water and Dust Intrusion	IP 54
Packing Test	Impact test

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.

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