

# CP200

## Portable Two-way Radio



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

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

### 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 light-weight, 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 <sup>1</sup>	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 <sup>3</sup>		12.5 kHz    20/25/30 kHz <sup>3</sup>	
	136-162 MHz 146-174 MHz		403-440 MHz 438-470 MHz 465-495 MHz	
Sensitivity <sup>2</sup> (12dB EIA SINAD)	0.25 µV		0.25 µV	
Adjacent Channel Selectivity <sup>2</sup>	-65 dB	-70 dB	-60 dB	-70 dB
Intermodulation <sup>2</sup>	-70 dB	-70 dB	-70 dB	-70 dB
Frequency Stability <sup>2</sup> (-30° to +60° C)	0.00025%		0.00025%	
Spurious Rejection <sup>2</sup>	-75 dB		-75 dB	
Image and 1/2 I-F Rejection <sup>2</sup>	-70 dB		-70 dB	
Audio Output <sup>2</sup> @ < 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 <sup>3</sup>			
Frequency Stability (-30° to +60° C)	0.00025%			
Spurs/Harmonics <sup>2</sup>	-36 dBm < 1 GHz, -30 dBm > 1 GHz			
Audio Response <sup>2</sup> From 6dB/octave Preemphasis, 300 to 3000 Hz	+1, -3 dB			
Audio Distortion <sup>2</sup> @ 1000 Hz, 60% Rated Maximum Deviation	< 3%			
FM Noise <sup>2</sup>	-40 dB (12.5 kHz) -45 dB (25 kHz) <sup>3</sup>			
FCC Modulation	20/25/30 kHz <sup>3</sup> 12.5 kHz	16KOF3E 11KOF3E	16KOF3E 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

<sup>1</sup> 5% receive, 5% transmit, 90% standby.

<sup>2</sup> All electrical specifications and methods refer to EIA/TIA 603 standards.

Specifications shown are typical and subject to change without notice.

<sup>3</sup> 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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