

# CP200

## Portable Two-way Radio



### 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 lightweight, durable design.

## SPECIFICATIONS

| GENERAL SPECIFICATIONS            |                                                |        |                                           |                                           |  |
|-----------------------------------|------------------------------------------------|--------|-------------------------------------------|-------------------------------------------|--|
|                                   | CP200 VHF                                      |        |                                           | CP200 UHF                                 |  |
| Frequency                         | 136-162 MHz<br>146-174 MHz                     |        |                                           | 403-440 MHz<br>438-470 MHz<br>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<br>ABZ99FT3045                     |        | ABZ99FT4056<br>ABZ99FT4057<br>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<br>146-174 MHz |                           | 403-440 MHz<br>438-470 MHz<br>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<br>146-174 MHz                        |                    | 403-440 MHz<br>438-470 MHz<br>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)<br>-45 dB (25 kHz) <sup>3</sup> |                    |                                           |
| FCC Modulation                                                          | 20/25/30 kHz <sup>3</sup><br>12.5 kHz             | 16KOF3E<br>11KOF3E | 16KOF3E<br>11KOF3E                        |

| PORTABLE MILITARY STANDARDS 810 C, D, E and F |              |            |              |            |              |            |
|-----------------------------------------------|--------------|------------|--------------|------------|--------------|------------|
|                                               | MIL-STD 810C |            | MIL-STD 810D |            | MIL-STD 810E |            |
|                                               | Method       | Procedures | Method       | Procedures | Method       | Procedures |
| Low Pressure                                  | 500.1        | I          | 500.2        | II         | 500.3        | II         |
| High Temperature                              | 501.1        | I, II      | 501.2        | I, II      | 501.3        | I, II      |
| Low Temperature                               | 502.1        | I          | 502.2        | I, II      | 502.3        | I, II      |
| Temperature Shock                             | 503.1        | I          | 503.2        | I          | 503.3        | I          |
| Solar Radiation                               | 505.1        | I          | 505.2        | I          | 505.3        | I          |
| Rain                                          | 506.1        | I, II      | 506.2        | I, II      | 506.3        | I, II      |
| Humidity                                      | 507.1        | II         | 507.2        | II, III    | 507.3        | II, III    |
| Salt Fog                                      | 509.1        | I          | 509.2        | I          | 509.3        | I          |
| Blowing Dust                                  | 510.1        | I          | 510.2        | I          | 510.3        | I          |
| Vibration                                     | 514.2        | VIII, X    | 514.3        | I          | 514.4        | 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.

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### 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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