MOTOROLA

CP200·XLS

Portable Two-way Radios in Limited and Keypad Models

- Large Rotary Channel Selector
  Continuous rotary knob

- 128 Channels:
  Up to 100 LTR Talkgroups

- Backlit 8-Character Alphanumeric
  Display with user-friendly icons indicates
  radio status, battery levels and allows for
  viewing of channel names and Caller IDs

- Four Programmable Buttons:
  S1, S2, P1, P2
  Two side and two front buttons provide
  quick access to up to 8 features

- Menu Scroll Buttons
  Change channel and access
  menu features

- Full DTMF Keypad

All CP200·XLS portable models include:

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

CP200·XLS Limited and Full Keypad Portable Features:

- 128 Conventional Channels
- Up to 100 LTR Talkgroups
- Up to 10 Sites and 100 Talkgroups in LTR
- Mixed Assignment of Conventional
  Personalities and LTR Talkgroups
- Up to 20 Repeaters per Site in LTR
- Up to 4 Universal IDs per System in LTR
- Up to 40 Universal IDs per Radio in LTR
- Up to 8 Programmable Features
- Supports up to 16 Scan Lists of up to
  16 Channels Per List – Limited
  Keypad only
- User-Editable Standard TPL/DPL Codes

- User-Editable Scan List
- Lights On/Off
- Tones On/Off
- Call Tone Tagging
- Quik-Call II™ Signaling Includes:
  Selective Call Encode
  Call Alert Encode
- DTMF Signaling Includes:
  Selective Call
  Call Alert Encode/Decode
- LTR Trunking Signaling Features:
  MDC 1200 Signaling
  PTT-ID Encode

PTT-ID Decode
  Radio Check Decode
  Selective Radio Inhibit Decode
  Data-Operated Squelch (DOS)
  Pre-Time

The Full Keypad model has all of the same
regular features as the Limited Keypad model
plus the following:

- Dial Phone Numbers
- Manual Access Repeater
  Send DTMF tones to repeater
- User-Editable Phone List
- Speed Dial for Radio Call Encode

Programmable Features: Choose up to 8

- Menu Mode
- Monitor
- Repeater/Talkaround
- Revert Memory Channel
- Store Memory Channel
- Home Revert Auto Key
- Voice Operated Transmission (VOX)
- Keypad Lock/Unlock

- Radio Call Initiates:
  Quik-Call II
  DTMF Call Alert
  Selective Call Encode
- Scan/Nuisance Channel/Talkgroup Delete
- Edit Scan List
- Phone Mode
- Escalert
- Squelch
- Power Level

- Lights

The Full Keypad model has all of the same
programmable features as the Limited Key-
pad model plus the following:

- Speed Dial
- DTMF (Full-Keypad) Specific Features
  DTMF Last Number Redial in Phone Mode
  Auto DTMF Access/De-access Code
  Manual Entry of DTMF Access/
  De-access Code

Feature-rich with simple operation.
The expanded features of the CP200·XLS portable two-way radio makes it a perfect fit for education, hospitality, retail, manufacturing and security organizations who need additional capabilities and capacity to manage a large workforce. Featuring both conventional and LTR® trunking capability, the CP200·XLS is available in both a limited keypad and full keypad model, the CP200·XLS also features an 8 character alpha-numeric display, four programmable buttons for quick access to up to eight programmable features and X-Pand™ technology for crisp, clear audio—all in a lightweight, durable design.

SPECIFICATIONS

GENERAL SPECIFICATIONS

		CP200·XLS VHF	CP200·XLS UHF
Frequency		136-162 MHz 146-174 MHz	403-440 MHz 438-470 MHz 465-495 MHz
Channel Capacity		128 Channels	
Power Supply		7.5 Volts ± 20%	
Dimensions with Battery 2250 mAh Li-Ion 1600 mAh Slim Li-Ion 1400 mAh NiMH 950 mAh NiCd		127.5 x 61.50 x 45mm (5.0 x 2.4 x 1.75 inches) 127.5 x 61.55 x 42mm (5.0 x 2.4 x 1.65 inches) 127.5 x 61.55 x 43mm (5.0 x 2.4 x 1.69 inches) 127.5 x 61.50 x 45mm (5.0 x 2.4 x 1.75 inches)	
Weight with Battery 2250 mAh Li-Ion 1600 mAh Slim Li-Ion 1400 mAh NiMH 950 mAh NiCd		370 g (13.04 oz) 374 g (13.19 oz) 444 g (15.66 oz) 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	CP200·XLS VHF	CP200·XLS UHF
	ABZ99FT3039 ABZ99FT3045	ABZ99FT4056 ABZ99FT4057 ABZ99FT4058

RECEIVER SPECIFICATIONS

	CP200·XLS VHF		CP200·XLS UHF	
	12.5 kHz	20/25/30 kHz[3]	12.5 kHz	20/25/30 kHz[3]
Frequency	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·XLS VHF	CP200·XLS 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] 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

[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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