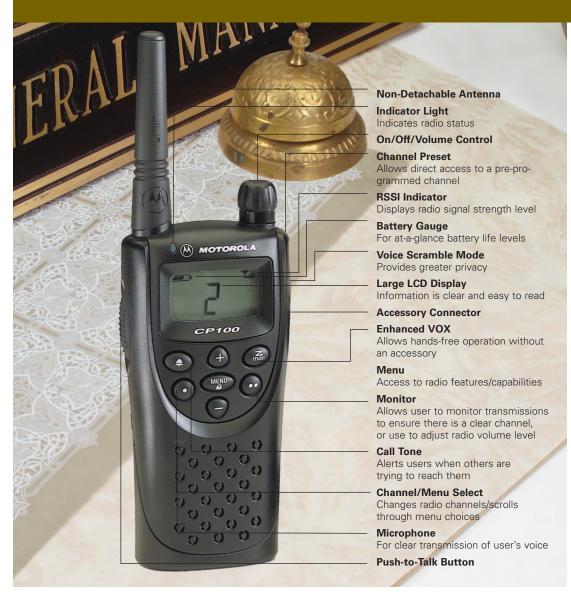
CP100 Commercial Series

Multi-Channel Two-Way Radio

Ideal for businesses with expanding communication needs.





CP100 Multi-Channel Radio: Enhanced Features and Functionality

For businesses with expanding communications needs, the multi-channel CP100 radio offers a number of valuable extra features — yet is still a very economical choice. In addition to all the features provided by the single channel CP100, the multi-channel model operates on 14 more channels, reducing interference and minimizing user downtime spent waiting for an open channel. Selectable scanning allows users to choose certain channels for the radio to monitor. The enhanced VOX feature allows hands-free operation of the radio without the use of an accessory. Rugged and practical, the CP100 multi-channel radio provides the enhanced features and versatility essential to keep productivity at its highest and meet tough workplace demands.

- Easy to use and cost-efficient
- 15 Channels, operates on 14 additional channels helping to minimize user downtime
- 121 Private Line Codes provide plenty of communication options with 83 digital (DPL) and 38 analog private lines (PL)
- Selectable Scanning allows users to choose certain channels to monitor
- Enhanced VOX Feature allows hands-free operation without the use of an accessory
- Extended life NiMH battery helps maximize talk time
- Backup AA battery capacity gives users valuable power source flexibility
- Rugged, Durable Design
 Meets or exceeds Mil Spec
 810 C,D, E, F and
 IP54 testing standards

specifications

GENERAL	VHF/UHF
Operating Frequency Range:	VHF (151-159 MHz) / UHF (461-470 MHz)
Channel Bandwidth:	12.5 kHz / 25 kHz
Channel Capacity:	15
Subaudible Signaling System:	PL, DPL
Mode of Operation:	Simplex
Talk Range:*	Up to 6 Miles
Power Supply Voltage:	4.8 Volt DC (Four AA batteries or NiMH Pack)
Temperature Range:	-30° to +60° C
High Humidity:	Satisfies TIA/EIA 603 Specification
Vibration Stability:	Satisfies TIA/EIA 603 Specification
Shock Stability:	Satisfies TIA/EIA 603 Specification
Battery Life:	(5/5/90 duty cycle) 13 Hours with NiMH Battery Pack, 22 Hours with four AA Batteries
Dimensions: (H x W x D)	5.28 x 2.52 x 1.49 inches
Weight:	5.8 oz (radio alone), 9.8 oz with NiMH Battery Pack, 9.2 oz with four AA Batteries
Seal Integrity:	IP54 (with battery door installed), Mil Spec 810 C, D, E, F
Emission, Modulation, and Transmission Designation:	11K0F3E / 16K0F3E

RECEIVER

Radiated Spurious Emissions:	-57dBm
Reference Sensitivity:	-121dBm
(12dB SINAD)	(0.2 uV)
Adjacent Channel Rejection:	55dB
Spurious Response Rejection:	55dB
Intermodulation Rejection:	55dB
Audio Frequency Response: (variance from	+1 to -3dB
a true 6dB per octave de-emphasis curve	
referenced to 1 kHz, from 300 Hz to 3 kHz)	
Hum and Noise Ratio: (non-companded)	50dB
Audio Distortion @ 500 mW:	10%
Audio Squelch Sensitivity:	8-12dB SINAD
Acoustic Audio Output: (maximum)	90dB SPL

 $\ensuremath{^{*}}$ Talk range may vary depending on terrain and conditions.

SUMMARY OF MIL SPEC RESULTS				
Test:	Mil Spec 810 C, D, E, F Test Conditions			
Shock:	Section 516.5, Procedures 1, 2, 4			
Rain:	Section 506.4, Procedure 1			
Temperature:	Shock Section 503.4, Procedure 2			
Sand and Dust:	Section 510.4, Procedure 3			
High Temperature:	Section 501.4, Procedure 2			
Low Temperature:	Section 502.4, Procedure 2			
Humidity:	Section 507.4			
Salt Fog:	Section 509.4			

TRANSMITTER	VHF/UHF
Carrier Output Power Rating:	2W
Carrier Frequency Stability:	2.5 ppm
Modulation Limiting:	+/- 2.5 & 5 kHz
Audio Sensitivity:	8 mV
Audio Distortion:	5%
Audio Frequency Response (variance from a	+1 to -3dB
true 6dB per octave pre-emphasis curve	
referenced to 1 kHz, from 300 Hz to 3 kHz)	
FM Hum and Noise Ratio: (non-companded)	45dB
Radiated Spurious Emissions: (10 uW)	-20dBm
Adjustable Channel Power Ratio:	60dBc

SUMMARY OF IP54 TEST RESULTS

IP54 Standard	Testing Requirements Spray nozzle that rotates	Passing Requirements If any water has penetrated,	Comments None
	+/- 180 degrees over the turntable. The unit is placed	it cannot interfere with radio operation or impair safety.	
	on the turntable for 10 minutes.		
Dust:	Units exposed to Talcum powder in a contained chamber.	The dust cannot interfere with the correct operation of the equipment or impair safety.	Silica powder is used in the dust chamber.

