

# CP110<sup>™</sup> UHF/VHF

# Portable Two-Way Radios—Display Models

# Performance You Can Count On.

The Motorola CP110 provides your business with a competitive communications edge, enhancing employee efficiency and overall profitability. Affordable and easy to use, the CP110 helps keep your operations on schedule, maximize job-shift productivity, enhance security and increase overall customer satisfaction. Compatible with other radios operating on the same frequency and code, the versatile CP110 also has a full complement of accessories for customizing the radio to suit your needs.



# **Exceptional Audio Quality**

2000 mW audio output, speaker magnetic field reduction, wind-noise reduction and improved RF specifications deliver superior audio quality that is 30% louder than Motorola CP100 radios.

### Rugged and Water Resistant

Meets Military 810 C,D,E and F and IP54/55 specifications for shock, rain, humidity, salt fog, vibration, sand/dust, temperature shock, high and low temperature.

# **Customer Program**ming Software (CPS)\*

Allows users to perform programming functions and direct entry of frequencies. CPS provides access to features such as Reverse Burst to eliminate unwanted noise, Radio Reporting to manage cloning and radio profiles. Manager Lock. Power Select, PL/DPL Defeat and two additional Time-Out Timers

# **Tri-Color LED Interface**

Convenient interface allows users to identify different radio features and radio status.

# Power and Coverage\*\*

2 Watt UHF—Coverage of up to 250,000 sq. ft., 20 floors. 2 Watt VHF—Coverage

of up to 220,000 sq. ft., 13 floors.

# Flexible and Durable **Battery Life Solutions**

CP110 battery packs are designed and manufactured to ensure durability of the radio. Radios ship standard with a high capacity Lilon battery. Other accessories for purchase: ultra high capacity Lilon and an alkaline battery kit.

#### **Easy Cloning**

Quickly copy settings with the Radio-to-Radio Cloning Cable or Multi-Unit Charger. (Both accessories sold separately.)

#### Convenient Charging

Drop-in charger keeps radios charged, ready and centrally located.

### **Advanced Voice** Activation (VOX)

Enables convenient hands-free operation when used with optional accessories.

#### **General Features:**

- Accessory Mic Gain
- Backlight
- Battery Save
- 16 Channels
- USB CPS Interface
- 2- and 3-Year Extended Warranty Options
- Manager Lock
- Low Battery Alert
- Power Select—1/2 Watts
- Power-up Tone
- Radio Mic Gain
- Rapid Drop-in Charger
- Removable Antenna
- Scan and Scan List
- Scramble
- Time-Out Timer
- Windows® XP, Windows 2000 compatible, separate USB cable required.
- Coverage will vary based on terrain, conditions and the radio model used



General Specifications				
	CP110 UHF	CP110 VHF		
Frequency Range	UHF (450 to 470 MHz)	VHF (150.8 to 174 MHz)		
Audio Output	2000 mW			
Channel Capacity	16 Channels			
Channel Bandwidth	12.5/25 kHz			
Dimensions (H" x W" x D") w/High Capacity Lilon Battery w/Ultra High Capacity Lilon Battery	4.5 x 2.2 x 1.8 inches (115.6 x 57.6 x 45.1 mm) 4.5 x 2.2 x 1.8 inches (115.6 x 57.6 x 45.1 mm)			
Weight w/High Capacity Lilon Battery w/Ultra High Capacity Lilon Battery	10.3 oz (293g) 10.3 oz (293g)			
Average Battery Life @ 5/5/90 (with Battery Save On): w/High Capacity 2200 mAH Lilon Battery w/Ultra High 2400 mAH Lilon Battery w/Optional Alkaline Battery Accessory	Up to 24 Hours Up to 26 Hours Up to 26 Hours			
Power Supply Voltage	7.2 Volts DC (Lilon Battery Pack or Alkaline )			
FCC Designation	AZ489FT3819 AZ489FT3819			
IC Designation	109U-89FT4880			

Transmitter	
RF Output High Low	2 Watts 1 Watt
Frequency Stability	< 2.5 ppm
Spurs & Harmonics	< -45 dBc
FM Hum & Noise	-40 dB @ 12.5 kHz -45 dB @ 25.0 kHz
Modulation Limiting	±2.5 kHz @ 12.5 kHz ±5.0 kHz @ 25.0 kHz
Adjacent Channel Power	60 dBc
Radiated Spurious Emissions @ 12.5 kHz	< -20 dBm
Radiated Spurious Emissions @ 25 kHz	< -13 dBm
Audio Frequency Response (0.3 - 3.0 kHz)	+1 to -3 dB
Audio Distortion	< 2%

Receiver		
Sensitivity (12 dB SINAD)	-122 dBm (0.18 μV)	
Adjacent Channel Selectivity	60 dB @ 12.5 kHz 65 dB @ 25.0 kHz	
Intermodulation Rejection	60 dB	
Spurious Response Rejection (blocking 1 MHz)	80 dB	
Audio Distortion	< 5%	
CSQ Hum & Noise @ 12.5 kHz	-50 dB	
PL Hum & Noise @ 12.5 kHz	-50 dB	
DPL Hum & Noise @ 12.5 kHz	-45 dB	
Radiated Spurious Emissions (< 1 GHz)	<-54 dBm	
Radiated Spurious Emissions (> 1 GHz)	<-52 dBm	
Audio Output @ < 5% Distortion	1.5 W @ 8 ohms	

Military Specifications				
Standard	MIL 810 C Methods/Procedures	MIL 810 D Methods/Procedures	MIL 810 E Methods/Procedures	MIL 810 F Methods/Procedures
Low Pressure	500.1 / Procedure 1	500.2 / Procedure 2	500.3 / Procedure 2	500.4 / Procedure 1
High Temperature	501.1 / Procedure 1,2	501.2 / Procedure 1,2	501.3 / Procedure 1,2	501.4 / Procedure 1,2
Low Temperature	502.1 / Procedure 1	502.2 / Procedure 1,2	502.3 / Procedure 1,2	501.4 / Procedure 1,2
Temperature Shock	503.1 / Procedure 1	503.2 / Procedure 1	503.3 / Procedure 1	503.4 / Procedure 1
Solar Radiation	505.1 / Procedure 1	505.2 / Procedure 1	505.3 / Procedure 1	505.4 / Procedure 1
Rain	506.1 / Procedure 1,2	506.2 / Procedure 1,2	506.3 / Procedure 1,2	506.4 / Procedure 1
Humidity	507.1 / Procedure 2	507.2 / Procedure 2,3	507.3 / Procedure 2,3	507.4 / Procedure 3
Salt Fog	509.1 / Procedure 1	509.2 / Procedure 1	509.3 / Procedure 1	509.4 / Procedure 1
Dust	510.1 / Procedure 1	510.2 / Procedure 1	510.3 / Procedure 1	510.4 / Procedure 1
Vibration	514.2 / Procedure 8,10	514.3 / Procedure 1	514.4 / Procedure 1	514.5 / Procedure 1
Shock	516.2 / Procedure 1,2,5	516.3 / Procedure 1,4	516.4 / Procedure 1,4	516.5 / Procedure 1

Environmental Specifications		
Operating Temperature	-30°C to +60°C (Radio)	
Sealing	IP55	
Shock & Vibration	Polycarbonate Housing passes EIA 603	
Dust & Humidity	Satisfied EIA 603	

Specifications subject to change without notice. All specifications shown are typical. Radio meets applicable regulatory requirements.