



CP110™

Portable Two-Way Radios for Education



PERFORMANCE YOU CAN COUNT ON

Introducing the CP110™ Portable Two-Way Radios— Ideal for Schools.

Discover what many administrators, teachers and parent associations already know—Motorola portable two-way radios offer you a powerful tool for enhancing school safety, security and efficiency. Now, through the enhanced technology in the CP110, Motorola brings you an edge in performance that you can leverage in virtually any school.

With the CP110, it's easier to keep everyone in touch, from teachers and administrators to crossing guards and maintenance staff—just what you need to keep things running smoothly and overcome the daily challenges of rising costs and tight budgets, safety and security, incident prevention and employee efficiency.

Affordable and easy to use, the CP110 radios provide the communication tool to help maintain order and enhance student safety. Discover what the CP110 can bring to your school.

Education Workplace Challenges

Motorola CP110 Radios Provide Solutions

Rising costs, tighter budgets

CP110 radios are affordable and easy to use, with no per-call charges and no monthly fees.

Ensuring safety and security

Teachers, bus drivers, crossing guards, and coaches can take immediate action when disturbances or emergencies occur.

Growing focus on incident prevention

School security can respond quickly to potentially dangerous or suspicious situations and efficiently monitor crosswalks near school grounds.

Improving employee effectiveness

School staff can manage school bus loading and unloading, large assemblies, cafeterias, and sporting events with ease.

Exceptional Audio Quality. Excellent Durability.

Designed For Today's Educational Environment



CP110 UHF non-display



CP110 UHF display

Exceptional Audio Quality

The CP110™ audio is 30% louder than previous Motorola CP100 models. 2000 mW audio output, speaker magnetic field reduction, wind-noise reduction and improved RF specifications all help deliver this superior audio quality.

Rugged and Water Resistant

Durable metal diecast chassis helps radios hold up under demanding conditions. The CP110 meets Military 810 C, D, E, F and IP54/55 specifications for shock, rain, humidity, salt fog, vibration, sand, dust, temperature shock, and high and low temperatures.

Customer Programming Software (CPS)*

Interfacing with CP110 radios is easier than ever. CPS software enables users to perform various programming functions and allows for direct entry of frequencies. Plus, the CPS software provides access to great features such as Reverse Burst to help eliminate unwanted noise, Radio Reporting to help manage cloning and radio profiles, Manager Lock, Power Select, PL/DPL Defeat and two additional Time-Out Timers.

Power and Coverage**

CP110 UHF—2 Watt model provides coverage of up to 250,000 sq. ft., 20 floors.

CP110 VHF—2 Watt model provides coverage of up to 220,000 sq. ft., 13 floors.

Exceptional Industrial Design

Weighing just 10.3 ounces with the battery, the CP110 is designed to be comfortable to wear all day. Plus, the user interface makes the radio simple and easy to use—little to no training required.

Flexible and Durable Battery Life Solutions†

All CP110 battery packs are designed and manufactured to ensure the durability of your radio. CP110 radios ship with a high capacity Lilon battery that offers up to 24 hours of battery life. Other batteries available for purchase include an ultra high capacity Lilon battery and an alkaline battery kit.

Tri-Color LED Interface

The convenient tri-color LED interface identifies different radio features and radio status.

Easy Cloning

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

Convenient Charging

An easy-to-use drop-in charger keeps radios charged, ready—and centrally located.

Advanced Voice Activation (VOX)

Convenient hands-free operation when used with optional accessories.

Additional Features

Select models offer even more capability.

Channels

At the touch of a button, workers or supervisors can change channels to talk with different work groups. Models available with 2 or 16 channels.

Channel Aliasing

Simple programming enables each channel to have a user-defined name. (Available on CP110 display models.)

Front Panel Programmability

Five programmable buttons enable quick access to features such as scan list, power select and manager lock. (Available on CP110 display models.)

*CPS is Windows® XP, Windows 2000 compatible, separate USB cable required.

**Coverage will vary based on terrain, conditions and radio model.

†Battery save feature must be activated for optimal battery life.



CP110 Accessories

Further enhance the productivity benefits from Motorola CP110 radios with these convenient, time-saving accessories.

Earbud with Clip Microphone and Push-to-Talk

HMN9036

For convenience and uninterrupted productivity. Push-to-talk button activates microphone when user is ready to speak.



Ultra High Capacity Lithium Ion Battery

RLN6308

Ultra high capacity rechargeable battery provides up to 26 hours of battery life per full charge.



Multi-Unit Charger

RLN6309

Allows drop-in charging for up to six radios and/or batteries from a single outlet. Also provides a central storage location for radios at the end of the school day.



CP110™ Standard Package Includes:

- One CP110 Portable Two-Way Radio
- High Capacity Lilon Battery
- Spring Action Belt Clip
- Charging Adapter
- Drop-in Charging Tray
- User Guide
- Safety Sheet

Motorola—A Name You Know and Trust

For more than 75 years, Motorola has been a leader in creating state-of-the-art wireless communications. The CP110 Portable Two-Way Radios uphold that superior standard. Each radio and radio accessory is backed by a limited one-year warranty on parts and labor. So when you select the CP110, you'll experience the same exceptional quality you've come to expect from all Motorola products.

Rapid Charger Kit

RLN6304

Fully charge your CP110 radio in two hours.



Radio to Radio Cloning Cable

RLN6303

Saves time by cloning all programming and user menu settings at the touch of a button.



CPS USB Programming Cable

RKN4155

Provides connectivity to CPS software to perform various programming functions. CPS software is Windows® XP and Windows 2000 compatible.



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EMPHASIS is on Quality and Reliability



MOTOROLA

Authorized Two-Way Radio Dealer



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CP110-IN-EDU-BROC 02/08



CP110™ 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.



CP110 UHF



CP110 VHF

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 Programming 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	AZ489FT4880	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.

Pipo Communications

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CP110-D-SPEC 02/08



CP110™ UHF/VHF

Portable Two-Way Radios—Non-Display Models

Performance You Can Count On.

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CP110 UHF



CP110 VHF

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 Programming 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
- Autoscan
- Battery Save
- 2 Channels
- USB CPS Interface
- 2- and 3-Year Extended Warranty Options
- Low Battery Alert
- Power Select—1/2 Watts
- Power-up Tone
- Radio Mic Gain
- Rapid Drop-in Charger Included
- 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	2 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)	
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Power Supply Voltage	7.2 Volts DC (Lilon Battery Pack or Alkaline)	
FCC Designation	AZ489FT4880	AZ489FT3819
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Adjacent Channel Power	60 dBc
Radiated Spurious Emissions @ 12.5 kHz	< -20 dBm
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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
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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
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Environmental Specifications

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