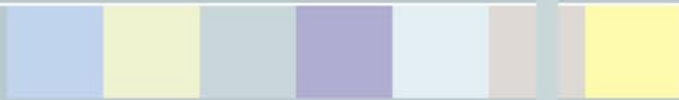




 **MOTOROLA**
intelligence everywhere™

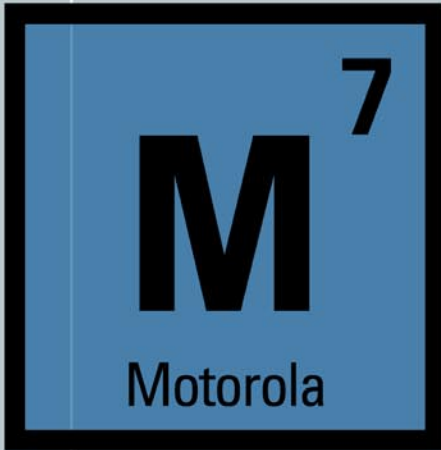
CP150™ CP200™

Commercial Series
Two-Way Radios and Accessories



Seven Essential Elements of
Solid Two-Way Communication

Value



Motorola M7: Delivering All the Elements You Need to Succeed

Whether it's a solid, a liquid, or a gas, everything in the universe requires certain elements to make it what it is—including Motorola radios. We've identified seven essential elements Motorola radios must have to meet your communication needs:

- **Value** to ensure you get the most for your communication dollars
- **Reliability** so you can depend on your radio, even in harsh environments
- **Ease of Use** for simple operation and customization
- **Audio Quality** to get your message through loud and clear
- **Size and Weight** so sleek and lightweight you can take your radio almost anywhere
- **Battery Life** that gives you the power to talk as long as you need
- **Range** that lets you reach coworkers across the street or across town

Only by including all of these elements can a radio deliver the superior quality Motorola stands for—and the solid communication tools you require. And that's exactly what the newest Radius Commercial Series two-way radios deliver. It's the next generation of Motorola communication.



Radius CP150

	V ¹ Value
R ² Reliability	Eu ³ Ease of use
Aq ⁴ Audio quality	Sw ⁵ Size & weight
Bl ⁶ Battery life	R ⁷ Range



The CP150 and CP200 Radios: High Performance at a Competitive Price

The new Radius CP150 and CP200 portable two-way radios deliver the quality features you want at a very competitive price. To provide the range that's best for your business, the CP150 radio is available in 2W UHF and VHF models. The CP200 radio is available in both 4W UHF and 5W VHF models. Powerful 500 mW audio output penetrates noisy environments, providing clear, crisp audio at any volume. A lightweight, ergonomic design makes these radios comfortable to carry and operate, even while wearing gloves. A range of battery choices along with rapid recharging capabilities help ensure your radio is ready when you are. Programmable option buttons make it easy to customize your radio with your choice of features. The CP200 radio offers the increased communication flexibility of push-to-talk radio ID and selective call.

Exceptional Durability

Rugged and reliable, the CP150 and CP200 radios undergo rigorous testing in the design process using U.S. Military Standards—so you can rest assured they will hold up under demanding conditions. These tests are designed to simulate the very harshest environments, including:

Blowing Rain—steady rainfall and wind for 30 minutes on every surface

Salt Fog—48 hours of exposure to an atomized salt solution

Blowing Dust—six hours of blowing dust on all surfaces

Vibration—up to nine hours of exposure to vibration that simulates the rigors that a radio could undergo while being carried or transported

Shock—18 shocks with a minimum G force of 40 G each

Temperature Storage—multiple hours of exposure to temperatures as low as -70° F followed by multiple hours of exposure to temperatures as high as 160° F

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 for people like you. The CP150 and CP200 two-way radios uphold that superior standard. And each radio is backed by a limited two-year* warranty on parts and labor. So when you select the CP150 or CP200 portable, you'll experience the same exceptional quality you've come to expect from all Motorola products.

**Radio accessories are covered by Motorola's one-year accessories warranty.*

Reliability

Ease of use

2

3

Aa

SwR

Fu

CP150/CP200

Commercial Series



Radius CP200

Radio 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" 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

Battery Latch Lock

Secures battery

In addition to the above features, the CP200 portable radio offers the following signaling features:

- **Quik-Call II™ Selective Call/Call Alert**—Lets individuals or groups receive selective pages via radio tones.
- **MDC Push-to-Talk Radio ID**—Sends unique digital ID information when transmitting.

Audio quality

Size & weight

6
BI
Battery life

7
R
Range

4

Ad

5
Sw

CP150/CP200 Radio Vertical Markets

Education

Managing administration or security on large campuses requires keeping in touch with your colleagues. The CP150 and CP200 portable radios give you easy contact with the colleagues who can help you keep everything under control.



Hospitality

Whether you're coordinating staff for a conference or requesting a quick room change for a last-minute guest, you need communication that won't slow you down. The lightweight, ergonomically designed CP150 and CP200 portable radios are comfortable enough to use and carry all day.

Retail

In the retailing industry, great customer service depends on fast response. The CP150 and CP200 radios let you connect at the touch of a button with store or stockroom personnel to get the information you need—when you need it.



Security

When an alarm signals illegal entry into the building you're securing, you don't have a moment to lose. The CP150 and CP200 radios give you the up-to-the-minute communication you need to alert coworkers or request backup at the touch of a button.

BI RR Eu
Battery life Range Reliability Ease of use

CP150/CP200 Radio Accessories

Choose from the many Motorola Original Accessories available for the CP150 and CP200 radios to expand the capabilities of your radio and create a customized communication solution for your business.

Ultra-Light Headset with Boom Microphone—RLN5411

Light and discreet, this headset provides high quality radio communication and all day comfort. Its convenient push-to-talk feature, adjustable boom microphone, and sleek design make it ideal for employees dealing directly with customers.



Lightweight Headset—RMN4016

This lightweight single muff, adjustable headset features a swivel boom microphone and in-line push-to-talk button. It's ideal for moderate noise environments.



Remote Speaker Microphone—HMN9030

This water-resistant compact unit allows the user to talk and listen without removing the radio from the belt or carry case. It features a coiled cord and a swivel clothing clip.



Leather Carry Case with Swivel—RLN5385

This case protects your radio in even the most demanding environments. Its swivel design allows the case to move to accommodate the user's position, while remaining securely attached to the user's belt.



Rapid Rate Desktop Charger—WPLN4138

Lightweight and compact, this unit will charge your NiCd or Li-ion battery within two hours. Batteries can be charged while attached to the radio or on their own, allowing the user to charge spare batteries.



Extended Battery, 1800 mAh Li-ion—NNTN4497

This optional battery provides up to 17 hours of CP150 radio talk time or up to 14 hours of CP200 radio talk time. Lightweight and environmentally safe, this battery offers built-in circuit protection.



In addition to the above accessories, Motorola offers a variety of antenna options, such as the UHF Heliflex Stubby Antenna (NAE6522) shown throughout this brochure and VHF Stubby Antenna (HAD9742/HAD9743). For complete accessory availability, contact your Motorola Authorized Dealer.

CP150/CP200 Radio Specifications



GENERAL SPECIFICATIONS

	VHF	UHF		
Frequency:	146-174 MHz	438-470 MHz		
Channel Capacity:	4 or 16 Channels	4 or 16 Channels		
Power Supply:	7.5 Volts ± 20%	7.5 Volts ± 20%		
Dimensions with both High Capacity NiCd and Li-Ion Battery:	127.5mm H x 61.5mm W x 45mm D (5.0" H x 2.4" W x 1.75" D)	127.5mm H x 61.5mm W x 45mm D (5.0" H x 2.4" W x 1.75" D)		
Weight with High Capacity Li-Ion Battery:	370g (13.04 oz.)	370g (13.04 oz.)		
with High Capacity NiCd Battery:	425g (14.98 oz.)	425g (14.98 oz.)		
Average Battery Life @ 5-5-90 Duty Cycle:	2W 9 Hrs. 17 Hrs.	5W 8 Hrs. 14 Hrs.	2W 9 Hrs. 17 Hrs.	4W 8 Hrs. 14 Hrs.
FCC Designation:	ABZ99FT3045		ABZ99FT4056	

RECEIVER SPECIFICATIONS

	VHF 12.5 kHz	VHF 20/25/30 kHz	UHF 12.5 kHz	UHF 20/25/30 kHz
Frequency:	146-174 MHz		438-470 MHz	
Sensitivity 12dB EIA SINAD:	0.25 µV (typical)		0.25 µV (typical)	
Adjacent Channel Selectivity:	-65 dB	-70 dB	-60 dB	-70 dB
Intermodulation:	-70 dB		-70 dB	
Frequency Stability (-30° C to +60° C):	0.00025%		0.00025%	
Spur Rejection:	-75 dB		-75 dB	
Image and 1/2 I-F Rejection:	-70 dB		-70 dB	
Audio Output @ < 5% Distortion:	500 mW		500 mW	

TRANSMITTER SPECIFICATIONS

	VHF Low 2W	VHF High 5W	UHF Low 2W	UHF High 4W
RF Output:				
Frequency:	146-174 MHz		438-470 MHz	
Channel Spacing:	12.5/20/25 kHz		12.5/20/25 kHz	
Frequency Stability (-30° C to +60° C):	0.00025%		0.00025%	
Spurs/Harmonics:	-36 dBm < 1 GHz -30 dBm > 1 GHz		-36 dBm < 1 GHz -30 dBm > 1 GHz	
Audio Response: (from 6 dB/oct. Premphasis, 300 to 3000Hz)	+1, -3 dB		+1, -3 dB	
Audio Distortion: @ 1000 Hz, 60% Rated Max. Dev.	< 3%		< 3%	
FM Noise:	-40 dB (12.5 kHz) -45 dB (25 kHz)		-40 dB (12.5 kHz) -45 dB (25 kHz)	
FCC Modulation: 20/25/30 kHz 12.5 kHz	16K0F3E 11K0F3E		16K0F3E 11K0F3E	

PORTABLE MILITARY STANDARDS 810 C, D, E, & F

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

Applicable to UHF and VHF Specifications.
All specifications are subject to change without notice.

Reliability
Ease of use
Battery life
Change

				10.8 5 B Boron	12.0 6 C Carbon	14.0 7 N Nitrogen	16.0 8 O Oxygen	19.0 9 F Fluorine	20.2 10 Ne Neon
				27.0 13 Al Aluminum	28.1 14 Si Silicon	31.0 15 P Phosphorus	32.1 16 S Sulfur	35.5 17 Cl Chlorine	40.0 18 Ar Argon
58.9 27 Co Cobalt	58.7 28 Ni Nickel	63.5 29 Cu Copper	65.4 30 Zn Zinc	69.7 31 Ga Gallium	72.6 32 Ge Germanium	74.9 33 As Arsenic	79.0 34 Se Selenium	79.9 35 Br Bromine	83.8 36 Kr Krypton
101.1 45 Rh Rhodium	106.4 46 Pd Palladium	107.9 47 Ag Silver	112.4 48 Cd Cadmium	114.8 49 In Indium	118.7 50 Sn Tin	121.8 51 Sb Antimony	127.6 52 Te Tellurium	126.9 53 I Iodine	131.3 54 Xe Xenon
208.9 77 Ir Iridium	195.1 78 Pt Platinum	197.0 79 Au Gold	200.6 80 Hg Mercury	204.4 81 Tl Thallium	207.2 82 Pb Lead	208.9 83 Bi Bismuth	210.0 84 Po Polonium	210.0 85 At Astatine	222.0 86 Rn Radon
109 Mt Meitnerium	110 Uun Ununnilium	111 Uuu Ununnilium	112 Uub Ununnilium						

For more information, please contact:

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152.0 62 Sm Samarium	157.3 63 Eu Europium	158.9 64 Gd Gadolinium	162.5 65 Tb Terbium	164.9 66 Dy Dysprosium	167.3 67 Ho Holmium	168.9 68 Er Erbium	173.0 69 Tm Thulium	175.0 70 Yb Ytterbium	176.4 71 Lu Lutetium
243.0 94 Pu Plutonium	247.0 95 Am Americium	247.0 96 Cm Curium	247.0 97 Bk Berkelium	251.0 98 Cf Californium	252.0 99 Es Einsteinium	257.0 100 Fm Fermium	261.0 101 Md Mendelevium	265.0 102 No Nobelium	269.0 103 Lr Lawrencium



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MD-CP150/200-BROCH