SPECIFICATION SHEET

CM200™

Mobile Two-way Radio

- Rotary on/off/volume control
- Up/down channel selector buttons
- Red/yellow/green LED indicators
- 1-character numeric display
- Die-cast housing with polycarbonate outer casing
- 2 programmable buttons: customize shortcuts for up to 4 favorite features with a short/long press

All CM200 models include:

- Standard or compact microphone
- Standard or low profile installation bracket
- Standard power cable
- Safety Manual
- Two-year warranty

Features

CM200 Mobile:

- 4 Channels
- Audio Indicator Tones
- Time-Out Timer
- Busy Channel Lockout
- Voice-Operated Transmit
  Requires voice-activated microphone
- TPL Standard and Non-Standard Reverse Burst
  For better compatibility with existing fleets
- Privacy Codes Include:
  42 standard TPL codes, 84 standard and non-standard DPL codes
- Single Priority Scan
  Listen for activity on multiple channels
- Quik-Call™ II Decode Includes:
  Selective Call: Allows calls from a specific group/individual
  Call Alert: Notification of calls from a specific group/individual with an alert tone and lighted LED
- MDC 1200 Push-to-Talk Identification Encode
  Sends unique digital ID information when transmitting (PTT ID), which can be displayed on radios equipped with MDC decode

Programmable Features: Choose up to 4

- Scan On/Off
- High/Low Power
- Repeater Talkaround
  Unit-to-unit communication, bypassing the repeater
- Local/Distance Mode
  Local reduces interference from nearby radios; distance helps improve range
- Tight/Loose Squelch
  Tight squelch helps minimize interference, and loose squelch helps weak signals be heard
- Nuisance Channel Delete
  Temporarily deletes a specific channel from scan mode
- Volume Set
  Sets volume level for radio speaker
- Silent Monitor/Open Squelch
  Silent monitor causes radio to remain silent; open squelch has audible "white noise" when there is no channel activity
- VOX On/Off
  Enables/disables voice-operated transmit functionality for the current channel
- Escalert
  Increases alert volume of unanswered calls

A compact radio that provides better and faster fleet productivity solutions

This radio features large controls that are easy to grip or press even when wearing gloves. The powerful 4W speaker is forward-facing (instead of on top of the radio) for superior clarity. Three color LED indicators (red, yellow, green) show visible feedback of transmit, scan and monitor status. The microphone and controls are located on the left, closest to the driver for easy reach, and bright visual indicators can be read at a glance. Both features that help drivers keep their eyes on the road. This design and simple operation make this radio ideal for retail, hospitality, manufacturing, delivery services and taxi and limousine companies.

GENERAL SPECIFICATIONS

	CM200™ VHF	CM200™ UHF
Frequency	136-162 MHz 146-174 MHz	438-470 MHz
Channel Capacity	4 Channels	
Technical RF Output Low Power High Power	 1-25W 25-45W	
Dimensions: H x W x L	1.73 x 6.67 x 4.64 inches, 44 x 169 x 118mm	
Weight – Radio only	2.25 lbs, 1.02 Kg	
Current Drain Standby Rx @ rated, external 8 ohm speaker Transmit	 0.3A 1.5A 7A (25W), 9.5A (45W)	
FCC Designation 136-162 MHz 146-174 MHz 438-470 MHz	 ABZ99FT3049 (45W) AZ492FT3805 (25W) ABZ99FT3046 (45W)	 AZ492FT4856 (25W) ABZ99FT4048 (40W)

RECEIVER SPECIFICATIONS

	CM200 VHF	CM200 UHF
Channel Spacing*	12.5/20/25 kHz	
Sensitivity: 12dB EIA SINAD (typical)	0.35 uV (12.5 kHz), 0.3 uV (25 kHz)	
Adjacent Channel Selectivity	65 dB (12.5 kHz) 75 dB (25 kHz)	60 dB (12.5 kHz) 70 dB (25 kHz)
Intermodulation	65 dB (12.5 kHz) 75 dB (25 kHz)	60 dB (12.5 kHz) 70 dB (25 kHz)
Frequency Stability: -30° C to +60° C	+/-2.5 ppm	
Spurious Rejection	-75 dB	-70 dB
Rated Audio: Extended audio with 4 ohm speaker	4W internal, 13W external	
Audio Distortion @ Rated Audio	3% typical	
Hum and Noise	-40 dB (12.5 kHz) -45 dB (12.5 kHz)	-35 dB (12.5 kHz) -40 dB (12.5 kHz)
Audio Response	TIA603 and ETS300	
Conducted Spurious Emission	-57 dBm < 1 GHz, -47 dBm > 1 GHz	

TRANSMITTER SPECIFICATIONS

	CM200 VHF	CM200 UHF
Channel Spacing*	12.5/20/25 kHz	
Frequency Stability: -30° C to +60° C	+/-2.5 ppm	
Modulation Limiting	+/-2.5 kHz (12.5 kHz) +/-4 kHz (20 kHz) +/-5 kHz (25 kHz)	
Conducted/Radiated Spurious Emission 1-25 W 25-45 W	 -36 dBm < 1 GHz, -30 dBm > 1 GHz -26 dBm	
Adjacent Channel Power	-60 dB (12.5 kHz) -70 dB (25 kHz)	
Audio Response	TIA603	
Audio Distortion	3% typical	
FM Hum and Noise	-40 dB (12.5 kHz) -45 dB (25 kHz)	-35 dB (12.5 kHz) -40 dB (25kHz)
FCC Modulation	11K0F3 (12.5 kHz) 16K0F3E (25 kHz)	

MOBILE MILITARY STANDARDS 810 C, D, and E

	MIL-STD 810C		MIL-STD 810D		MIL-STD 810E	
	Method	Procedures	Method	Procedures	Method	Procedures
Temperature Shock	503.1	I	503.2	I	503.3	I
Solar Radiation	505.1	I	505.2	I	505.3	I
Rain	506.1	II	506.2	II	506.3	II
Salt Fog	509.1	I (48 Hours)	509.2	I (48 Hours)	509.3	I (48 Hours)
Water and Dust Intrusion	510.1	I	510.2	I	510.3	I
Vibration	–	–	514.3	I, Cat. 1	514.4	I, Cat. 1
Shock	516.2	I, III	516.3	I, V	516.4	I, V

ENVIRONMENTAL

Operating Temperature	-30° C to +60° C
Storage Temperature	-40° C to +85° C
Thermal Shock	-40° C to +80° C
Humidity	95% RH @ 8 Hour
Water and Dust Intrusion	IP 54
Packing Test	Impact test

* Availability of new 25 kHz equipment may be restricted due to Narrowbanding regulations in your country. Please check with your frequency coordinator and/or regulatory agency for the latest information on Narrowbanding.

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.

All specifications subject to change without notice.

MOTOROLA SOLUTIONS

Value Added Reseller

PROCOM CORPORATION

CONNECTING PEOPLE AT MOMENTS THAT MATTER

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