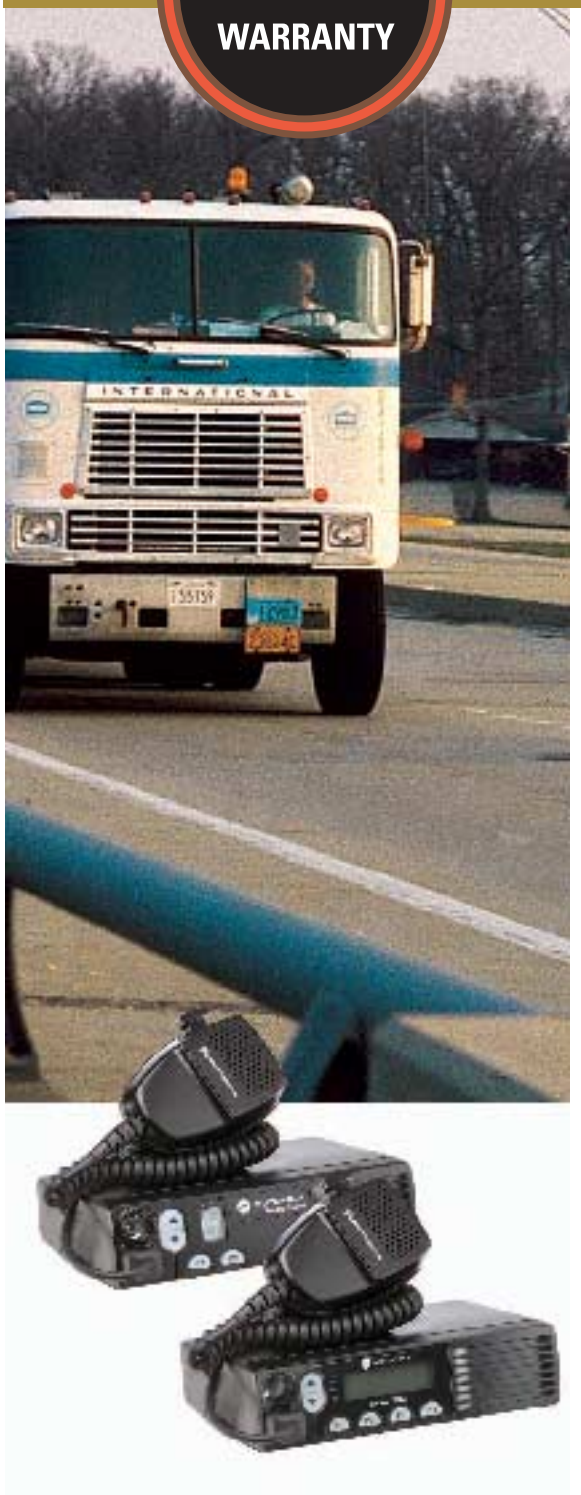
MOTOROLA

CM200™ and CM300™ Mobile Series Two-Way Radios

These versatile mobiles are ideal for Agriculture, Transportation, Retail, Limousine and Hospitality businesses.

STANDARD 2 YEAR WARRANTY



Features CM200/CM300

- *4 Channels/32 Channels*
- *Audio Indicator Tones*
- *VHF and UHF Frequencies*
- *Time-Out Timer*
- *Busy Channel Lockout*
- *Voice-Operated Transmit (requires voice-activated microphone)*
- *TPL Standard and Non-Standard Reverse Burst (for better compatibility with fleets)*
- *Privacy Codes (42 standard TPL, 84 standard DPL and non-standard codes)*
- *Single Priority Scan allows user to listen for activity on multiple channels*
- *Decode Selective Call/CallAlert Using Quik-Call II™ Signaling Selective Call: Allows receipt from specific group or individual Call Alert: Receives notification from specific group or individual user with alert tone and lighted LED*
- *Push-to-Talk Identification Using MDC 1200 Signaling Encode: Sends unique digital ID information when transmitting (PTT ID), which can be displayed on radios equipped with MDC decode*

Addtional CM300 Features:

- *Escalert (increases volume of unanswered alert)*
- *Menu Mode*
- *System Scan and Auto Scan*
- *Supports Up to 16 Scan Lists of Up to 16 Channels Each*
- *Single and Dual Priority Scan (frequently scans higher-priority channels)*
- *Revert Scan (radio moves automatically to last landed scan channel when exiting scan mode)*
- *Customizable Audio Indicator Tones*
- *Adjustable Backlight Intensity*
- *Option Board Expandability*
- *Selective Radio Inhibit Decode: Dispatcher can remotely disable radio*
  Radio Check Decode: Dispatcher can determine remotely if radio is powered on without disturbing user

Programmable Features CM200/CM300

(Choose up to 4 for the CM200 and up to 8 for CM300)

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

Additional CM300 Programmable Features

- ***2-Channel Home Revert***
  Returns to 1 or 2 favorite channels
- ***Menu Mode***
  Access to radio menu and to select a menu option
- ***Option Board On/Off***
  Enables/disables option board functionality for the current user
- ***Phone Mode***
  Provides access to telephone interconnect through a repeater
- ***Speed Dial***
  Initiates a phone call to a preprogrammed recipient with the press of a DTMF key (requires DTMF keypad)
- ***Radio Call***
  Allows a user to initiate Quik-Call II™ and/or DTMF Call Alert or Selective Call Encode from a call list
- ***Scan List Edit***
  Allows user to add/remove channels from current scan list
- ***External Alarm***
  Activates a warning or alert by triggering flashing headlights, a siren or a horn (requires an external alarm accessory and an accessory connector pin to be programmed for external alarm through CPS)

Specifications

GENERAL	VHF	UHF
Frequency:	136-162 MHz (CM300 only), 146-174 MHz	438-470 MHz
Channel Capacity:	4 (CM200) 32 (CM300)	4 (CM200) 32 (CM300)
Low Power:	1-25W	1-25W
High Power:	25-45W	25-40W
Dimensions: H x W x L	1.73 x 6.67 x 4.64 inch (44 x 169 x 118 mm)	1.73 x 6.67 x 4.64 inch (44 x 169 x 118 mm)
Weight: (radio only)	2.25 lbs (1.02 Kg)	2.25 lbs (1.02 Kg)
FCC Description: 136-162	ABZ99FT3049 (45W)	
146-174	AZ492FT3805 (25W), ABZ99FT3046 (45W)	AZ492FT4856 (25W), ABZ99FT4048 (40W)

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

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

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

PORTABLE MILITARY STANDARDS 810 C, D, & E

	MIL-STD 810C Method: Proc/Cat	MIL-STD 810D Method: Proc/Cat	MIL-STD 810E Method: Proc/Cat
Temp. 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	509.2: I	509.3: I
Water & Dust:	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

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.

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RD-EU-CM200_CM300SINGLE