

# Motorola CDM1550™

The Sophisticated Radio



Equipped to handle advanced communication needs requiring flexibility and functionality.

#### Quik Call II™ and MDC 1200 Signaling (Encode/Decode)

Send and receive information via tone or digital signals

#### Multicolored LED Indicators

Visible feedback of transmit, scan, and monitor status

#### 128 Channels

#### 14-Character Alphanumeric Display

Information is clear and easy to read

#### Multi-Language Capabilities

Programming in English, Spanish, French, or Portuguese

#### RSSI Indicator

Displays signal strength level

#### Caller ID

Identifies incoming callers

#### X-Pand™ Audio Enhancement

Crisp, clear audio quality

#### 4 Customizable Function Buttons (P1, P2, P3, P4)

Program for instant access to your favorite features

#### Selective Call

Lets you call a specific group or individual

#### Dual Priority Scan

Frequently scans higher priority channels

#### Repeater Talkaround

Unit-to-unit communication, bypassing repeater

#### Emergency Signaling

Sends help signal

#### Horn and Lights Activation

Notifies user of call alerts/selective calls when away from vehicle

#### Emergency Signaling

Discreet help signal

#### Call Alert

Notifies users that you're trying to reach them

#### Selective Call

Lets you call a specific group or individual

#### DTMF Encode

Sends pages and telephone calls

#### Optional Voice Storage

Records important messages or memos

## Additional Features

- 128 Channels
- MDC 1200 Signaling (Encode/Decode) Features Including:
  - Caller ID - Identifies incoming calls
  - Selective Call - Group or individual
  - Call Alert - For incoming calls
  - Radio Check - Identifies active radio
  - Message - Send/receive messages
- Status Message
  - Exchanges text messages between base and user
- Data Capable
- Large, Easy to Use Controls
- Channel Selector Buttons
- Large Textured PTT Button on Palm Microphone
- Powerful, Front-Projecting Speaker
- Rugged, Die-Cast Chassis with Polycarbonate Outer Shell
- Remote Mountable Control Head

## Motorola Quality:

### A Sophisticated Radio for Advanced Needs.

The top-tier CDM1550™ mobile radio is fully equipped to handle the advanced communication needs of organizations requiring high levels of flexibility and functionality. Motorola's flexible X-Pand™ audio enhancement technology and a powerful front-projecting speaker ensure clear, crisp sound, even in noisy environments. The large 14-character alphanumeric display with user-friendly icons helps make information easy to understand. An extensive range of signaling capabilities lets you exchange text messages with your dispatcher to minimize channel usage and improve efficiency, or discreetly signal for emergency help even when your vehicle is turned off. And, the enhanced menu gives you easy access to all of the radio's many features. The exceptional CDM1550™ mobile delivers all the communication power and control you need to work at maximum efficiency.

# specifications

GENERAL		LOW BAND
Channel Capacity:		128
Typical RF Output:	High Power	40-60W
Frequencies:		29.7-36 MHz, 36-42 MHz, 42-50 MHz
Dimensions: (HxWxD)	High Power	2.3 x 7.28 x 10.02 inch (72 x 185 x 255 mm)
Weight:	High Power	4.5 lbs (2.04 Kg)
Current Drain:	Standby	.4A
	Rx @ rated, external 8 ohm speaker	1.5A
Transmit:		17A
FCC Description:		AZ492FT1627 (29.7-36 MHz)
		AZ492FT1628 (36-42 MHz)
		AZ492FT1626 (42-50 MHz)

TRANSMITTER		
Channel Spacing:	20/30 kHz	
Frequency Stability: (-30° C to +60° C, +25° Ref.)	± 5 ppm	
Power Output:	Low Power	N/A
	High Power	40-60W
Modulation Limiting:	± 5.0	
FM Hum and Noise:	-45dB (25 kHz)	
Conducted/Radiated Emission:	-26dBm	
Adjacent Channel Power:	-70dB	
Audio Response:	TIA 603 & ETS300 & CEPT 84 Annex 2	
Audio Distortion	3% typical	
FM Modulation:	16K0F3E (25 kHz )	

RECEIVER	
Frequencies:	29.7-36 MHz, 36-42 MHz, 42-50 MHz
Channel Spacing:	20 kHz
Frequency Stability: (-30° C to +60° C, +25° Ref.)	± 5 ppm
Sensitivity: (12dB SINAD)	0.3 µV, 0.25 µV typical
Intermodulation:	80dB typical
Adjacent Channel Selectivity:	80dB
Spurious Rejection:	80dB
Rated Audio: (external audio with 4 ohm speaker)	3W Internal Speaker, 13W External Speaker
Audio Distortion @ Rated Audio:	3% typical
Hum and Noise:	-45dB
Audio Response:	TIA603 & ETS300 & CEPT 84 Annex 2
Conducted Spurious Emission:	-57dBm < 1 GHz, -47dBm > 1 GHz

ENVIRONMENTAL	
Operating Temperature:	-30° to +60° C
Storage Temperature:	-55° to +85° C
Thermal Shock :	-40° to +85° C
Humidity:	95% RH @ 8 Hr.
ESD:	IEC 801-2 KV
Water Intrusion:	IP54
Packing Test:	Impact Test

PORTABLE MILITARY STANDARDS 810 C, D, & E*			
Applicable MIL-STD	810C	810D	810E
	Methods/Procedures	Methods/Procedures	Methods/Procedures
Low Pressure:	500.1/1	500.2/2	500.3/2
High Temperature:	501.1/1, 2	501.2/1, 2	501.3/1, 2
Low Temperature:	502.1/2	502.2/1, 2	502.3/1, 2
Temperature Shock:	503.1/1	503.2/1	503.3/1
Solar Radiation:	505.1/1	505.2/1	505.3/1
Rain:	506.1/2	506.2/2	506.3/2
Humidity:	507.1/2	507.2/2, 3	507.3/3
Salt Fog:	509.1/1	509.2/1	509.3/1
Dust:	510.1/1	510.2/1	510.3/1
Vibration:	514.2/8, 10	514.3/1	514.4/1
Shock:	516.2/1, 5	516.3/1	516.4/1

\* MIL Standards - The CDM mobile radio is designed to meet most requirements for MIL STD 810 C, D, and E.



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