



TWO-WAY RADIOS

CDM1550: The Sophisticated Radio

The top-tier CDM1550™ radio is fully equipped to handle the advanced communication needs of organizations requiring high levels of flexibility and functionality. Motorola's unique X-Pand™ audio enhancement 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 signals 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 superior communication power and control you need to work at maximum efficiency.

CDM1550 Mobile Radio

Additional CDM1550 Features:

- Large, easy-to-use controls
- Powerful, front-projecting speaker
- 12.5/25 kHz switchable channel spacing
- Remote mountable control head
- Data capable

14-Character Alphanumeric Display with User-Friendly Icons

Information is clear and easy to read

Multi-Language Capabilities – Can be programmed in English, Spanish, French, and Portuguese

RSSI Indicator – Displays signal strength level

Caller ID – Identifies incoming callers

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

Send and receive information via tone or digital signals

X-Pand Audio Enhancement
Crisper, clearer audio quality

128 Channels

Large Control Buttons

Easy management of menu, navigation, and exit functions

Multicolored LED Indicators

Clear, visible feedback of transmit, scan, and monitor status

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

Program for instant access to favorite features and label according to function

Dual Priority Scan

Frequently scans higher priority channels

Repeater Talkaround

Unit-to-unit communication, bypassing the repeater

Covert Emergency Signaling

Discreetly sends help signal

Horn and Lights Activation

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

Call Alert

Notifies individual users that you're trying to reach them

Selective Call

Calls a specific group or individual

DTMF Encode/Decode

Sends and receives pages and telephone calls

Status Message

Exchanges text messages between base and user

Optional Voice Storage

Records important messages or personal memos

As Dedicated As You Are™
Professional Radio



Mobile Two-Way Radio Specifications

General Specifications			
	Low Band	VHF	UHF
Channel Capacity	128		
Typical RF Output Low Power High Power	40-60W	1-25W 25-45W	1-25W 25-40W
Frequency	29.7-36 MHz 36-42 MHz 42-50 MHz	136-174 MHz	403-470 MHz 450-512 MHz
Dimensions (H x W x L) Low Power	—	2.83" x 7.28" x 7.4" (72 mm x 185 mm x 188 mm)	
Dimensions (H x W x L) High Power	2.83" x 7.28" x 10.02" (72 mm x 185 mm x 255 mm)	2.83" x 7.28" x 7.87" (72 mm x 185 mm x 200 mm)	
Weight Low Power (1-25W) High Power	4.5 lbs. (2.04 kg)	3.15 lbs. (1.43 kg) 3.5 lbs. (1.59 kg)	
Current Drain: Standby Rx @ rated, external 8 ohm speaker Transmit	.4 A 1.5 A 17 A	.3 A 1.5 A 7 A @ 25W 13.5 A @ 45W	.3 A 1.5 A 8 A @ 25W 13.5 A @ 40W
FCC Description	AZ492FT1627 (29.7-36 MHz) AZ492FT1628 (36-42MHz) AZ492FT1626 (42-50 MHz)	AZ492FT3796 (25W) AZ492FT3795 (45W)	AZ492FT4835 (25W, 403-470 MHz) AZ492FT4830 (40W, 403-470 MHz) AZ492FT4829 (25W, 450-512 MHz) AZ492FT4836 (40W, 450-512 MHz)

Transmitter			
Specifications	Low Band	VHF	UHF
Frequencies	29.7-36 MHz 36-42 MHz 42-50 MHz	136-174 MHz	403-470 MHz 450-512 MHz
Channel Spacing	20 kHz	12.5/20/25 kHz	
Frequency Stability (-30° C to +60° C, +25° Ref.)	± 5 ppm		
Power Output Low Power High Power	40-60W	1-25W 25-45W	1-25W 25-40W
Modulation Limiting	± 5.0	±2.5 @ 12.5 kHz / ±4.0 @ 20kHz / ±5.0 @ 25 kHz	
FM Hum & Noise	-40 dB	-40 dB 12.5 kHz -45 dB 25 kHz	
Conducted/Radiated Emission	-36 dBm < 1 GHz -30 dBm > 1 GHz		
Adjacent Channel Power	-70 dB	-60 dB @ 12.5 kHz -70 dB @ 25 kHz	
Audio Response	TIA 603 & ETS300 & CEPT 84 Annex 2		ETS 300 / CEPT 84 Annex 2
Audio Distortion	3% typical		
FM Modulation	25 kHz 16KOF3E	25 kHz 16KOF3E 12.5 kHz 11KOF3	

Receiver			
Specifications	Low Band	VHF	UHF
Frequencies	29.7-36 MHz 36-42 MHz 42-50 MHz	136-174 MHz	403-470 MHz 450-512 MHz
Channel Spacing	20 kHz	12.5/20/25 kHz	
Frequency Stability (-30° C to +60° C, +25° Ref.)	± 5 ppm		
Sensitivity (12 dB SINAD)	0.3 µV 0.25 µV typical	0.3 µV 0.23 µV typical	
Intermodulation	80 dB typical	75 dB @ 12.5 kHz 78 dB @ 25 kHz	75 dB @ 12.5 kHz 75 dB @ 25 kHz
Adjacent Channel Selectivity	80 dB	65 dB @ 12.5 kHz 80 dB @ 25 kHz	65 dB @ 12.5 kHz 75 dB @ 25 kHz
Spurious Rejection	80 dB	75 dB @ 12.5 kHz VHF 80 dB @ 25 kHz VHF	70 dB @ 12.5 kHz 75 dB @ 25 kHz
Rated Audio (external audio with 4 ohm speaker)	3W Internal 13W External		
Audio Distortion @ Rated Audio	3% typical		
Hum and Noise	-45 dB	-40 dB 12.5 kHz -45 dB 25 kHz	
Audio Response	TIA603 & ETS300 & CEPT 84 Annex 2		
Conducted Spurious Emission	-57 dBm < 1 GHz -47 dBm > 1 GHz		

Mobile Military Standards 810 C, D, & E						
	810C		810D		810E	
Applicable MIL-STD	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

Environmental Specifications	
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

Ask your dealer about the other
CDM Series Two-Way Radios that utilize
exclusive **X-PAND** technology.



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