



TWO-WAY RADIOS

CDM750: The Practical Radio

Ideal for organizations with moderate communication requirements, the CDM750™ radio provides simple yet high-performing functionality. Its streamlined features include the essentials to keep users communicating steadily and efficiently – including limited signaling capabilities and two customizable function buttons. Motorola's unique X-Pand™ audio enhancement and a large front-projecting speaker ensure clear, crisp sound, even in noisy environments. The practical CDM750 radio gives you virtually everything you need to get the job done.

CDM750 Mobile Radio

Additional CDM750 Features:

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

MDC1200 Encode Signaling

Send information via digital signals

Caller ID Encode

Allows users to identify you as the caller

Selective Radio Inhibit

Remotely deactivate a lost or stolen radio

Multicolored LED Indicators

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

X-Pand Audio Enhancement

Crisper, clearer audio quality

2 Customizable Function Buttons (P1, P2)

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

4 Channels

Monitor/Permanent Monitor

Allows continuous channel monitoring

Repeater Talkaround

Unit-to-unit communication, bypassing the repeater

Scan

Monitors channels for activity



As Dedicated As You Are™
Professional Radio

Mobile Two-Way Radio Specifications

General Specifications			
	Low Band	VHF	UHF
Channel Capacity	4		
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 (25W) 450-512 MHz (40W)
Dimensions (H x W x L) Low Power	—	2.2" x 6.93" x 6.97" (56 mm x 176 mm x 177 mm)	
Dimensions (H x W x L) High Power	2.3" x 6.93" x 9.47" (58 mm x 176 mm x 240 mm)	2.2" x 6.93" x 7.44" (56 mm x 176 mm x 189 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 (36-42 MHz) 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	± 2.5 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 16K0F3E	25 kHz 16K0F3E 12.5 kHz 11K0F3	

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	± 2.5 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

For more information, please contact:

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



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