

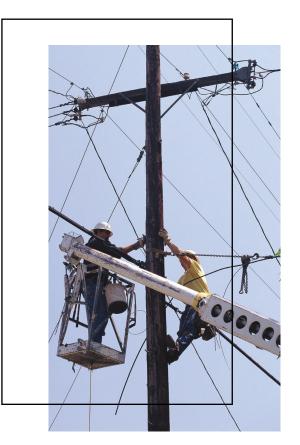


Professional Series Two-Way Radios and Accessories

CDM1550·LS VHF CDM1550·LS+ UHF 200 MHz

# TAKING TWO-WAY COMMUNICATION FARTHER THAN EVER.







with LTR® Trunking

# Motorola Two-Way Radios: The Choice of Professionals

Success in today's constantly changing marketplace depends on knowing – and making – the right moves. To stay on top, you have to continually expand your horizons, always keeping one step ahead of your competition. You also need communication tools that deliver immediate, reliable access to the people and information you need to get the job done. And that's exactly what two-way radio gives you.

At the touch of a button, two-way radio lets you talk with one, ten, or more people instantly – providing the individual and team communication you need to maximize productivity and meet your customers' demands. And when you choose a Motorola radio, you know you're getting a product designed to meet your requirements as a professional.

## The Intelligent Radio – So Advanced, It Practically Thinks for You

High-performing features combined with versatile trunking capabilities make the CDM1550•LS and CDM1550•LS+ two-way radios the smart choice to keep mobile work teams performing at their best. The CDM1550•LS and CDM1550•LS+ radios incorporate LTR® trunking capabilities – offering you wider calling range, faster channel access, greater privacy, and higher user and talkgroup capacity. The CDM1550•LS+ also offers innovative PassPort® trunking. Ideal for users with growing communication needs, PassPort includes all the advantages of LTR trunking plus:

- Wider Area Coverage, Seamless Roaming Automatic switching between networked PassPort sites lets you maintain constant communication over long distances without touching a button
- Exceptional Audio Quality Received Signal Strength Indicator (RSSI) communication technology utilizes the strongest signal available, giving you optimal sound quality
- Superior System Access Automatic site registration/ deregistration can reduce busy channels and enhance system efficiency
- Efficient Channel Expansion Direct frequency assignment allows you to add channels and sites over the air without taking radios out of service
- Electronic Serial Number Protection Helps keep system resources available by preventing unauthorized radio cloning



#### **Exceptional Functionality and Convenience**

The CDM1550•LS and the CDM1550•LS+ mobiles utilize the latest in two-way technology to deliver extraordinary performance and ease-of-use, including:

- Compact, Ergonomic Design to give you optimal mounting flexibility and durability
- 14-Character Alphanumeric Display with User-Friendly Icons to help make the radio's information easy to understand
- Convenient Menu Navigation so you can program scan, phone, and call lists in virtually no time

- Four Programmable Buttons that you can customize and label for quick access to your favorite features
- Selectable Scanning Capabilities that allow you to define the transmissions your radio monitors
- Motorola's Unique X-Pand<sup>™</sup> Audio Enhancement combined with a powerful front-projecting speaker can help reduce background noise and improve sound quality

The CDM1550•LS+ mobile can also be programmed with both LTR and PassPort trunking systems – allowing a smooth transition when your business requires a more extensive calling area for maximum communication efficiency. The radio operates on 16 conventional channels as well.

#### Motorola – A Name You Know and Trust

For more than 65 years, Motorola has been an undisputed leader in creating state-of-the-art wireless communications for people like you. The CDM1550•LS and the CDM1550•LS+ mobiles uphold that superior standard. What's more, each radio is backed by a limited two-year\* warranty on parts and labor. So when you select the CDM1550•LS or the CDM1550•LS+ mobile, you'll experience the same exceptional quality you've come to expect from all Motorola products. \*Radio accessories are covered by Motorola's one-year accessories warranty.



CDM1550-LS+

### CDM1550·LS and CDM1550·LS+ Radio Features

#### 15 PassPort and/or LTR Zones (16 talkgroups each)\* 16 or 160 Conventional Channels\*

#### **RSSI Indicator**

Displays signal strength level

#### Large Control Buttons Easy management of menu, navigation, and exit functions

**Conventional Talkaround** Unit-to-unit communications, bypassing the repeater

Home Channel Revert Automatic, one-button return to a preferred talkgroup or channel

User-Defined Lists Change scan, phone, and call lists on the fly

Voice Storage Record important messages or personal memos

**Telephone Interconnect** Place and receive phone calls with the radio

# MDC1200 Signaling (Encode/Decode) Features on Conventional and LTR Zones\*

- Caller ID Identifies incoming callers
- Selective Call Lets you call a specific group or individual
- Call Alert Notifies individual users that you're trying to reach them
- Radio Check Tells you whether another user's radio is activated
- Message Allows you to send and receive pre-programmed messages

#### Quick Call II™ on Conventional Zones\*

Send and receive information via tone or digital signals

#### **Roam Request\***

Optional manual initiation of roaming function

#### Horn and Lights Activation

Notifies you of calls when you're away from your vehicle

#### Additional CDM1550·LS and CDM1550·LS+ Mobile Features

- 12.5/25 kHz switchable channel spacing\*
- Remote mountable control head
- Data capable
- Operates on LTR or LTR and PassPort systems\*
- \* Only available on certain models. Check with your Motorola Authorized Dealer for availability.

# CDM1550·LS CDM1550·LS+

# **Radio Accessories**

Motorola Original<sup>™</sup> accessories provide an easy way to turn your CDM1550•LS or CDM1550•LS+ mobile radio into a custom communication solution to fit your business requirements—maximizing on-the-job productivity and efficiency for mobile work teams and individuals.



## **Talk However You Want**



You can dial phone numbers on this microphone's full keypad, or customize its three programmable buttons with any control head features.

Visor Microphone—AARMN4027 Attach this microphone to your visor or hat for hands-free operation of your radio (must be used with an external PTT).

Push Button Push-to-Talk—RLN4857 Simply depress the button to talk with other users.

Foot Switch Push-to-Talk—RLN4856 A handy foot switch provides hands-free PTT functionality.

## **Gooseneck Mount**

**Push-to-Talk**—**RLN4858** This PTT mounts conveniently on your steering wheel column for control that's right at your fingertips.

**Telephone Style Handset—AAREX4617** Conduct private conversations on your radio quietly and discreetly.

# **Get Your Message Across**

# 13-Watt Speaker—RSN4001

Powerful sound control allows you to increase your radio's volume output when working in noisy environments.



## Take It With You

**High-Profile Mount—GLN7317** Offers a space-saving option for vehicles where every inch counts.

**Key Lock Mount—RLN4779** Securely mounts and locks radio in your vehicle to protect against theft.

Power It Up

**1-25 Watt Power Supply—HPN4002** For use with low power radios. Provides power for using mobile radio on a desktop.

**25-60 Watt Power Supply—HPN4001** For use with low power radios. Provides power for using mobile radio on a desktop.

## **Enhance Your Calling Range**

200 MHz Wave Roof Mount Antenna— HKAD4001

Mini U 746-794 MHz Wave Rod Antenna—HAF4012

450-476 MHz 1/4 Wave Roof Mount Antenna—HAE4003





# CDM1550·LS and CDM1550·LS+ Radio Specifications

	VHF	200 MHz	UHF	700 MHz	
Channel Capacity					
Trunking zone capacity	15	15	15	15	
Trunking talkgroup capacity (per zone)	16	16	16	16	
Conventional channel capacity	160	16	16	16	
Typical RF Output					
VHF Low Power	1-25W				
VHF High Power	25-45W				
200 MHz	1-25W				
UHF Low Power	1-25W				
UHF High Power	25-40W				
700 MHZ	1-15W				
Frequency					
VHF	136-174 MHz				
200 MHz	217-218 MHz, 219-222 MHz				
UHF	403-470 MHz, 450-512 MHz				
700 MHz	746-747 MHz, 762-764 MHz, 776-777 MHz, 792-794 MHz				
Dimension (H x W x L)					
VHF/UHF Low Power and 200 MHz	2.34" x 7.05"	x 7.32" (60 mm	x 179 mm x 18	86 mm)	
VHF/UHF High Power and 700 MHz	2.34" x 7.05"	x 7.79" (60 mm	x 179 mm x 19	98 mm)	
Weight					
VHF/UHF Low Power and 200 MHz	3.15 lbs. (1.4	3 kg)			
VHF/UHF High Power and 700 MHz	3.5 lbs. (1.59 kg)				
Current Drain	VHF	200	UHF	700	
Standby	.3 A	.3 A	.3 A	.3 A	
Rx @ rated, external 8 ohm	1.5 A	1.5 A	1.5 A	1.5 A	
Transmit	7 A @ 25W	7 A @ 25W	8 A @ 25W	7 A @ 15W	
	13.5 A @ 45W	1	13.5 A @ 40V	V	
FCC Description	AZ492FT3796 (25W, 136-174 MHz)				
	AZ492FT3795 (45W, 136-174 MHz)				
	ABZ99FT3081 (25W, 217-218/219-222 MHz)				
	AZ492FT4835 (25W, 403-470 MHz)				
	AZ492FT4830 (40W, 403-470 MHz)				
		AZ492FT4829 (25W, 450-512 MHz)			
	AZ492FT4829	) (25W, 450-512	MHz)		
		) (25W, 450-512 ) (40W, 450-512			

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

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ENVIRONMENTAL SPECIFICA	11UN9	

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	IPX4
Packing Test	Impact Test

	VHF	200 MHz	UHF	700 MHz
Frequencies	136–174 MHz.	217-218 MHz.	403-470 MHz.	746-747 MHz.
		219–220 MHz.	450-512 MHz	762-764 MHz
		220-222 MHZ		
Channel Spacing	12.5/20/25 kHz	12.5 kHz	12.5/20/25 kHz	12.5 kHz
Frequency Stability	± 2.5 ppm	± 2.5 ppm	± 2.5 ppm	± 1.5 ppm
(-30° C to +60° C, +25° Ref.)				
Sensitivity (12 dB SINAD) EIA	0.3 µV 0.23 µV typical	0.30 µV (0.25 µV typical)	0.3 µV 0.23 uV typical	0.35 µV (0.3 µV typical)
Intermodulation	75 dB @ 12.5 kHz	75dB	75 dB @ 12.5 kHz	75dB
	78 dB @ 25 kHz		75 dB @ 25 kHz	
Adjacent Channel Selectivity	65 dB @ 12.5 kHz	65 dB (TIA 603)	65 dB @ 12.5 kHz	65 dB (TIA 603)
	80 dB @ 25 kHz	40 dB (TIA 603-A)	75 dB @ 25 kHz	40 dB (TIA 603-A)
Spurious Rejection	75 dB @ 12.5 kHz	75 dB	70 dB @ 12.5 kHz	75 dB
	80 dB @ 25 kHz		75 dB @ 25 kHz	
Rated Audio	3W Internal	3W Internal	3W Internal	3W Internal
(External audio w/4 ohm speaker)	13W External	13W External	13W External	13W External
Audio Distortion @ Rated Audio	3% typical	3% typical	3% typical	3% typical
Hum and Noise	-40 dB 12.5 kHz	-40 dB	-40 dB 12.5 kHz	-40 dB
	-45 dB 25 kHz		-45 dB 25 kHz	
Audio Response	TIA603 & ETS300 &	+1 to -3 dB	TIA603 & ETS3000 &	+1 to -3 dB
	CEPT 84 Annex 2		CEPT 84 Annex 2	
Conducted Spurious Emmision	-57dBm < 1 GHZ	-57dBm < 1 GHz	-57dBm < 1 GHZ	-57dBm < 1 GHz
FCC Part 15	-47dBm > 1 GHZ	-47 dBm > 1GHz	-47dBm > 1 GHZ	-47 dBm > 1GHz

	VHF	200 MHz	UHF	700 MHz
Frequencies	136–174 MHz	217–218 MHz (Talkaround),	403-470 MHz	776–777 MHz,
		219–220 MHz,	450-512 MHz	792 –794 MHz,
		220–221 MHz (Talkaround),		746–747 MHz (Talkaround),
		221–222 MHz		762–764 MHz (Talkaround)
Power Output	1-25 W or 25-45 W	1-25 W	1-25 W or 25-40 W	1–15 W
Frequency Stability	± 2.5 ppm	± 2.5 ppm	± 5 ppm @ 25 kHz	± 1.5 ppm
(-30° C to +60° C, +25° Ref.)			± 2.5 ppm @ 12.5 kHz	
Modulation Limiting	± 2.5 @ 12.5 kHz	± 2.5 kHz	± 2.5 @ 12.5 kHz	± 2.5 kHz
	± 4.0 @ 20 kHz		± 4.0 @ 20 kHz	
	± 5.0 @ 25 kHz		± 5.0 @ 25 kHz	
Conducted and Radiated	-36 dBm < 1 GHz	-16 dBm	-36 dBm < 1 GHz	-16 dBm (except – 40 dBm
Emissions	-30 dBm > 1 GHz		-30 dBm > 1 GHz	from 1559 to 1610 MHz)
Channel Spacing	12.5/20/25 kHz	12.5 kHz	12.5/20/25 kHz	12.5 kHz
FM Hum & Noise	-40 dB 12.5 kHz	- 40 dB typical	-40 dB typical	- 40 dB typical
	-45 dB 25 kHz			
Adjacent Channel Power	-60 dB @ 12.5 kHz	-60 dB	-60 dB @ 12.5 kHz	-60 dB
	-70 dB @ 25 kHz		-70 dB @ 25 kHz	
Audio Response	TIA 603 & ETS300 &	+1 to -3 dB	TIA 603 & ETS300 &	+1 to -3 dB
	CEPT 84 Annex 2		CEPT 84 Annex 2	
Audio Distortion	3% typical	3% typical	3% typical	3% typical
FM Modulation Designator	11K0F3E (12.5 kHz)	11K0F3E	11K0F3E (12.5 kHz)	11K0F3E
	16K0F3E (25 kHz)		16K0F3E (25 kHz)	
Adjacent Channel Coupled Power	N/A	N/A	N/A	Complies with 47
				CFR 27.53 (d) (1)

# For more information, please contact:



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