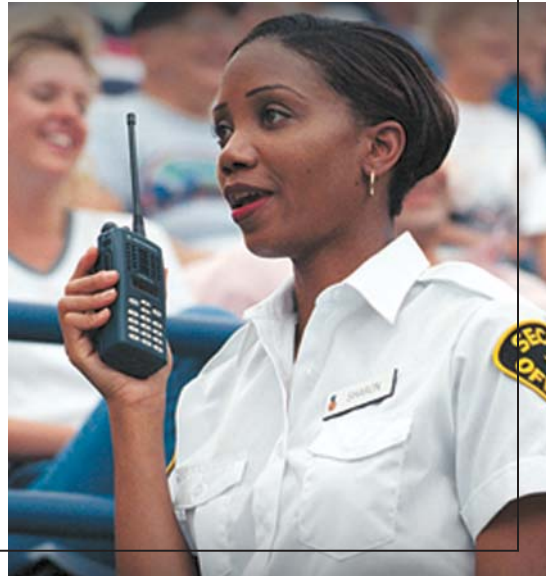




MOTOROLA
intelligence everywhere™



MTX Series
Two-Way Radios and Accessories
For LTR® Systems

MTX850·LS™
MTX8250·LS™

Motorola Two-Way Radio: Communication You Can Count On

Success in today's business world depends on exceptional performance. To stay ahead, you have to make every minute count—and every dollar. You also need fast, dependable access to the right people and information so you can get the job done. And that's exactly what two-way radio delivers. Efficient two-way radio helps you stay connected so you can maximize productivity and meet your customers' demands. By simply pressing a button, you can talk with one, one dozen, or one hundred people instantly. And when you choose a Motorola Professional Radio, you know you're getting a product specifically designed to meet your needs as a professional—a product that's as dedicated as you are.



When you're completing a complicated repair job, the MTX850•LS and MTX8250•LS radios deliver the communication you need to take care of business—quickly and effectively.

Intelligent Radio

So advanced, it practically thinks for you.

MTX850•LS and MTX8250•LS: The Smart Choice for Your Business

Powerful

The innovative Motorola MTX850•LS and MTX8250•LS portable two-way radios deliver everything you need for great business communication. These radios can help enhance your interactive resources by operating effectively on 800 MHz LTR® systems. Powerful, cost-effective LTR trunking provides a wider calling range, faster channel access, greater privacy, and higher user and talkgroup capacity—which means your MTX850•LS and MTX8250•LS radios have what it takes to help you stay in touch and on top.

Flexible

Both radios offer remarkable ease of use and unsurpassed functionality at the touch of a button:

- **Signaling features such as selective call and call alert** let you control your communication with extraordinary precision
- **Selectable scanning capabilities** give you the flexibility to program your MTX850•LS and MTX8250•LS radios to scan only the transmissions you want to hear
- **Voice storage capabilities** allow you to record incoming calls or personal messages
- **X-Pand™ audio enhancement** on the MTX8250•LS radio can reduce background noise and improve sound quality

- **User-friendly icons** on the large 14-character alphanumeric display provide at-a-glance understanding of the radios' features and commands
- **Easy reprogramming capabilities** help ensure that these radios will keep serving you effectively as your business grows and changes

Reliable

For more than 75 years, Motorola has been a leader in creating state-of-the-art wireless communications for people like you. Each MTX850•LS and MTX8250•LS radio is backed by a limited two-year* warranty on parts and labor. So when you select the MTX850•LS or MTX8250•LS two-way radio, you know you'll experience the same superior quality you've come to expect from all Motorola products.

Making wise decisions is nothing new to you. So don't wait to make your next smart move. Contact your local Motorola representative today about the MTX850•LS and MTX8250•LS radios—and put the power of intelligent radio to work for your business.

*Radio accessories are covered by Motorola's one-year accessories warranty.

MTX850•LS PORTABLE RADIO



On a construction site, you need to ensure workers have the right equipment at the right time. The MTX850•LS and MTX8250•LS two-way radios give you the power you need to get the job done.

MTX850•LS

**1 Trunked Zone (with 16 talkgroups)
Up to 16 Conventional Channels**

Emergency Button

Sounds an alarm in emergencies or can be programmed for specific features

MDC1200 Signaling (Receive) Features on LTR® Zones

- **Selective Call**—Lets you receive calls from a specific group or individual
- **Call Alert**—Notifies unavailable users that someone is trying to reach them

4 Programmable Buttons

Immediate access to your favorite features

Conventional Talkaround

Unit-to-unit communications, bypassing the repeater

Small, lightweight, and durable

**Voice storage capabilities
(with option board)**

X-Pand™ Audio Enhancement
Crisper, clearer audio quality

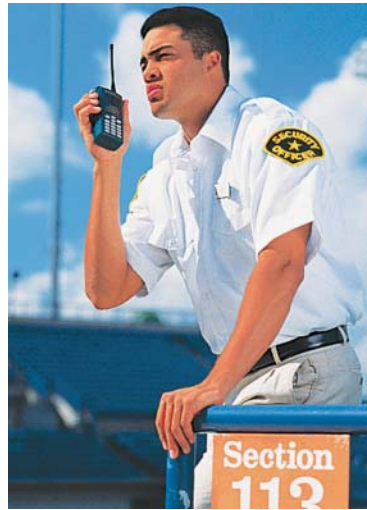
**System/All Group/
Auto Group Scanning**
Define the frequency and type of transmissions your radio scans

**Telephone Interconnect
Capability**
Receive phone calls using the radio



MTX8250•LS PORTABLE RADIO

Fast, efficient communication can be crucial when you're overseeing security. The MTX850•LS and MTX8250•LS radios offer exactly what you need to stay in touch—anywhere, anytime.



In addition to all the MTX850•LS model features, the MTX8250•LS model offers:

15 Trunked Zones (16 talkgroups each) 128 Conventional Channels

Battery Gauge
For at-a-glance battery life levels

14-Character Alphanumeric Display with User-Friendly Icons
Identifies trunked zones, talkgroups, and conventional channels



Control Buttons

Easy management of menu, navigation, and exit functions

MDC1200 Signaling (Send/Receive) Features on Conventional and LTR® Zones

- **Caller ID**—Identifies incoming callers
- **Selective Call**—Lets you send calls to and receive calls from a specific group or individual
- **Call Alert**—Informs unavailable users that you're trying to reach them
- **Radio Check**—Notifies you whether another user's radio is activated
- **Emergency (send only)**—Sounds an alarm or alerts dispatcher in urgent situations

Quick Call II™ on Conventional Zones

Send and receive information via tone or digital signals

Front Panel

Programmable Phone List

Store and retrieve your favorite phone numbers

Telephone Interconnect Capability

Place and receive phone calls using the radio

7 Programmable Buttons

Immediate access to your favorite features

Home Channel Revert

Automatic, one-button return to a preferred channel

User-Defined Lists

Change scan, phone, and call lists on the fly

MTX850•LS and MTX8250•LS

Specifications

General Specifications

	800 MHz	MTX850•LS	MTX8250•LS
Channel Capacity			
Trunking zone capacity:		1	15
Trunking talkgroup capacity:		16*	16 (per zone)
Conventional channel capacity:		16*	128
Power Supply			
Rechargeable battery	7.5V		
Dimensions			
With NiMH High Capacity Battery	5.40" x 2.26" x 1.50" (137.0 x 57.5 x 37.5 mm)		
With NiMH Ultra-High Capacity Battery	5.40" x 2.26" x 1.60" (137.0 x 57.5 x 40.0 mm)		
With NiCd Battery	5.40" x 2.26" x 1.60" (137.0 x 57.5 x 40.0 mm)		
With Li-ion Battery	5.40" x 2.26" x 1.30" (137.0 x 57.5 x 33.0 mm)		
Weight			
With NiMH High Capacity Battery	15.0 oz. (420g)		
With NiMH Ultra-High Capacity Battery	17.5 oz. (500g)		
With NiCd Battery	15.8 oz. (450g)		
With Li-ion Battery	12.5 oz. (350g)		
Average Battery Life @ 5/5/90 Duty Cycle			
	Low Power	High Power	
With NiMH High Capacity Battery	9 hrs	8 hrs	
With NiMH Ultra-High Capacity Battery	14 hrs	11 hrs	
With NiCd Battery	9 hrs	8 hrs	
With Li-ion Battery	9 hrs	8 hrs	

* Trunking talkgroups and conventional channels combined cannot exceed 16

Transmitter Specifications

Specifications	800 MHz
Frequency Range**	
Transmit	806 - 821 MHz
Talkaround	851 - 866 MHz
Power Output	2.5 W (806 - 821 MHz) 2 W (851 - 866 MHz)
Frequency Stability (-30° C to +60° C, +25° Ref.)	± 2.5 ppm
Modulation Limiting	± 5 KHz @ 806 - 821 MHz
Emission (Conducted & Radiated)	-13 dBm per FCC
Channel Spacing	25 KHz
FM Hum & Noise (Companion Receiver)	-40 dB
Audio Response (from 6dB/octave pre-emphasis, 300-3000 Hz)	+1 to -3 dB
Audio Distortion	3%
FM Modulation	16K0F3E

** Note: This equipment is not authorized by the FCC for public safety use in the 821-825 / 866 - 870 MHz band in the United States

Receiver Specifications

Specifications	800 MHz
Frequency Range	851 - 866 MHz
Hum and Noise	-45dB
Sensitivity (12 dB SINAD) EIA	.35 µV
Channel Spacing	25 KHz
Intermodulation	-70 dB
Adjacent Channel Selectivity	-70 dB
Spurious Rejection	-70 dB
Rated Audio	0.5 W
Audio Distortion @ Rated Audio	3% typical
Audio Response (from 6dB/octave de-emphasis, 300-3000 Hz)	+1 to -3 dB
Conducted Spurious Emission	-57 dBm

Portable Military Standards 810 C, D, & E

Applicable MIL-STD	810C Methods	810C Procedures	810D Methods	810E Methods	810D/810E Procedures
Low Pressure	500.1	1	500.2	500.3	2
High Temperature	501.1	1,2	501.2	501.3	1,2
Low Temperature	502.1	2	502.2	502.3	1,2
Temperature Shock	503.1	1	503.2	503.3	1
Solar Radiation	505.1	1	505.2	505.3	1
Rain	506.1	1,2	506.2	506.3	1,2
Humidity	507.1	2	507.2	507.3	2,3
Salt Fog	509.1	1	509.2	509.3	1
Dust	510.1	1	510.2	510.3	1
Vibration	514.2	8,10	514.3	514.4	1
Shock	516.2	1,2,5	516.3	516.4	1,4

Environmental Specifications

Operating Temperature	-30 to +60° C
Storage Temperature	-55 to +85° C
Humidity	95% RH @ 8 Hr.
ESD	IEC 801-2 KV
Water Intrusion	IP54

Factory Mutual Approvals

Factory Mutual has given the MTX850•LS and MTX8250•LS an intrinsically safe rating for use in Classes I, II, III, Division 1, Groups C,D,E,F and G, as well as non-incendive use in Class 1, Division 2, Groups A, B, C and D on models ordered with the Factory Mutual option.

