

**MOTOROLA**

TWO-WAY RADIOS

HT1550•XLS

Portable Radio

HT1550•XLS: The Proficient Radio

Users who require the highest levels of functionality will find this exceptional, Professional Series radio to be an invaluable tool. The HT1550•XLS™ portable offers a wide range of advanced features to handle even the most challenging and diverse communication needs. Dual mode operation capability allows users to switch between LTR® and conventional modes at the touch of a button—and makes migration easy for growing businesses. MDC signaling capabilities let you control transmissions with extraordinary precision. An extra-large alphanumeric display with user-friendly icons is designed to make information clear and understandable at a glance. The HT1550•XLS radio delivers all the communications power and control you need to maximize your efficiency and productivity on the job.

Up to 160 Conventional Channels

Up to 15 Trunked Zones
with 16 Talkgroups Each

Emergency Button†

Sounds an alarm or alerts dispatcher
in urgent situations

Four-Line Alphanumeric Display with User-Friendly Icons

Identifies trunked zones, talkgroups,
and conventional channels

Navigation Button

Scroll through menus and
text on the display

Control Buttons

Easy management of menu,
navigation, and exit functions

Call Stacking

Tracks Call Alerts and Selective Calls
received while you're on another call
or unable to answer your call

MDC1200 Signaling Features (Conventional and LTR Modes)

- **Push-to-Talk (PTT) ID (Encode/Decode)** – Identify your outgoing calls and incoming callers
- **Selective Call (Encode/Decode)** – Send or receive calls from a specific group or individual
- **Call Alert (Encode/Decode)** – Inform unavailable users that you're trying to reach them, and receive alerts of incoming calls when a short distance away from your radio
- **Radio Check (Encode/Decode)** – Learn whether another user's radio is activated, and let others check your radio status
- **Emergency† (Encode)** – Sounds an alarm or alerts dispatcher in urgent situations
- **Selective Radio Inhibit (Decode)** – Allows system owner to disable stolen or missing radios

† Emergency in LTR mode is dependent upon system access

7 Programmable Buttons

Immediate access to your
favorite features

• System/All Group/Auto Group Selective Scanning

Define the frequency and type of
transmissions your radio scans

• Conventional Talkaround

Unit-to-unit communication,
bypassing the repeater

• Home Channel Revert

Automatic, one-button return to
a preferred channel

• Home Channel Revert Autokey (LTR mode)

Automatically access your favorite
talkgroup and send a PTT ID to a
group of radios

• User-Defined Lists

Change scan, phone, and call lists
on the fly

Telephone Interconnect

Place and receive phone
calls using the radio

Voice Storage with Answering Machine Mode

Answers incoming calls with
a personalized greeting when
you're unable to answer your
calls, and records voice
messages from other users

As Dedicated As You Are™

Professional Radio

Portable Two-Way Radio Specifications

General Specifications																	
	VHF	UHF															
Channel Capacity	Trunking zone capacity: 15 Trunking talkgroup capacity: 16 Conventional channel capacity: 160																
Power Supply	Rechargeable battery 7.5V																
Dimensions (H x W x D) With standard high-capacity NiMH Battery; without belt clip	5.98" x 2.26" x 1.50" (152.0 x 57.5 x 37.5 mm)																
Weight	16.0 oz. (460g)																
Average Battery Life @ 5/5/90 Duty Cycle	<table> <tr> <th></th><th>Low Power</th><th>High Power</th></tr> <tr> <td>With NiMH High Capacity Battery</td><td>11 hrs.</td><td>8 hrs.</td></tr> <tr> <td>With NiMH Ultra-High Capacity Battery</td><td>14 hrs.</td><td>11 hrs.</td></tr> <tr> <td>With NiCd Battery</td><td>12 hrs.</td><td>9 hrs.</td></tr> <tr> <td>With Lilon Battery</td><td>11 hrs.</td><td>8 hrs.</td></tr> </table>			Low Power	High Power	With NiMH High Capacity Battery	11 hrs.	8 hrs.	With NiMH Ultra-High Capacity Battery	14 hrs.	11 hrs.	With NiCd Battery	12 hrs.	9 hrs.	With Lilon Battery	11 hrs.	8 hrs.
	Low Power	High Power															
With NiMH High Capacity Battery	11 hrs.	8 hrs.															
With NiMH Ultra-High Capacity Battery	14 hrs.	11 hrs.															
With NiCd Battery	12 hrs.	9 hrs.															
With Lilon Battery	11 hrs.	8 hrs.															
Model Numbers	AAH25KDN9DU8AN	AAH25RDN9DU8AN AAH25SDN9DU8AN															

Transmitter		
Specifications	VHF	UHF
Frequencies	136–174 MHz	403–470 MHz 450–512 MHz
Power Output	1–5 W	1–4 W
Frequency Stability (-30°C to +60°C, +25° Ref.)	±2.5 ppm	
Modulation Limiting	±2.5 @ 12.5 kHz/±4.0 kHz @ 20 kHz +5.0 kHz @ 25 kHz	
Channel Spacing	12.5/20/25 kHz	
FM Hum & Noise	-40 dB	
Audio Response (0.3 – 3 kHz)	+1 to -3 dB	
Audio Distortion	3%	
Conducted/Radiated Emissions	-66 dBw	

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

Contact Your Motorola Authorized Two-Way Radio Dealer:

Receiver		
Specifications	VHF	UHF
Hum and Noise	-45 dB @ 12.5 kHz/50 dB @ 25 kHz	
Sensitivity (12 dB SINAD) EIA	0.25 µV typical	
Channel Spacing	12.5/20/25 kHz	
Intermodulation per EIA	70 dB	
Adjacent Channel Selectivity	60 dB @ 12.5 kHz/70 dB @ 25 kHz	
Spurious Rejection	70 dB	
Rated Audio	0.5 W	
Audio Distortion @ Rated Audio	3% typical	
Audio Response (0.3 – 3 kHz)	+1 to -3 dB	
Conducted Spurious Emission per FCC Part 15	-57 dBm < 1 GHz -47 dBm > 1 GHz	

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	1,2	500.3	1,2
High Temperature	501.1	1,2	501.2	1,2	501.3	1,2
Low Temperature	502.1	1	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	1,2	506.2	1,2	506.3	1,2
Humidity	507.1	2	507.2	2,3	507.3	2,3
Salt Fog	509.1	1	509.2	1	509.3	1
Dust	510.1	1	510.2	1	510.3	1
Vibration	514.2	7,8,10	514.3	1	514.4	1
Shock	516.2	1,2,5	516.3	1,4	516.4	1,4

Factory Mutual Approvals
Factory Mutual has given the HT1550•XLS an intrinsically safe rating for use in Classes I, II, and III, Division 1, Groups C, D, E, F and G, as well as non-incendive use in Class I, Division 2, Groups A, B, C and D on models ordered with the Factory Mutual option.



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