



**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	<b>Low Power</b>	<b>High Power</b>
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 LiIon 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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