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.

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

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

Professional Radio

As Dedicated As You Are™

HT1550•XLS

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	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 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

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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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MD-HT1550XLS-01