

# specifications

GENERAL	VHF	UHF
Channel Capacity:	Trunking zone capacity: 15, Trunking talkgroup capacity: 16 Conventional channel capacity: 160	Trunking zone capacity: 15, Trunking talkgroup capacity: 16 Conventional channel capacity: 160
Power Supply:	Rechargeable battery 7.5V	Rechargeable battery 7.5V
Dimensions:		
With NiMH High Capacity Battery:	5.98 x 2.26 x 1.50 in (152 x 57.5 x 37.5mm)	5.98 x 2.26 x 1.50 in (152 x 57.5 x 37.5mm)
With IMPRES NiMH/NiMH FM Battery:	5.98 x 2.26 x 1.60 in (152 x 57.5 x 40mm)	5.98 x 2.26 x 1.60 in (152 x 57.5 x 40mm)
With IMPRES Li-ion Battery:	5.98 x 2.26 x 1.60 in (152 x 57.5 x 40mm)	5.98 x 2.26 x 1.60 in (152 x 57.5 x 40mm)
Weight:		
With NiMH High Capacity Battery:	16.2 oz. (460g)	16.2 oz. (460g)
With IMPRES NiMH/NiMH FM Battery:	18.7 oz. (530g)	18.7 oz. (530g)
With IMPRES Li-ion Battery:	14.0 oz. (397g)	14.0 oz. (397g)
Average Battery Life @ 5/5/90 Duty Cycle*:	Low Power High Power	Low Power High Power
With NiMH High Capacity Battery:	11 hrs 8 hrs	11 hrs 8 hrs
With IMPRES NiMH Battery:	17 hrs 11 hrs	17 hrs 13 hrs
With IMPRES NiMH FM Battery:	16 hrs 10 hrs	16 hrs 13 hrs
With IMPRES Li-ion Battery:	18 hrs 11 hrs	18 hrs 14 hrs
Model Numbers:	AAH25KDN9DU8AN	AAH25RDN9DU8AN, AAH25SDN9DU8AN
FCC Description:	AZ489FT3794 (136-174 MHz) AZ489FT4826 (403-470 MHz) AZ489FT4834 (450-512 MHz)	

  

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

TRANSMITTER	VHF	UHF
Frequencies:	136-174 MHz	403-470, 450-512 MHz
Power Output:	1-5 W	1-4 W
Frequency Stability: (-30° C to +60° C, +25° Ref.)	±2.5 ppm	±2.5 ppm
Modulation Limiting:	+2.5 @ 12.5kHz / ±4.0kHz @ 20kHz, +5.0 @ 25kHz	+2.5 @ 12.5kHz / ±4.0kHz @ 20kHz, +5.0 @ 25kHz
Channel Spacing:	12.5/20/25kHz	12.5/20/25kHz
FM Hum & Noise:	-40dB typical	-40dB typical
Audio Response: (0.3 – 3kHz)	+1 to -3dB	+1 to -3dB
Audio Distortion:	3%	3%
Conducted/Radiated Emissions:	-66dBw	-66dBw
FM Modulation:	12.5kHz 11KOF3E	12.5kHz 11KOF3E 16KOF3E

## PORTABLE MILITARY STANDARDS 810 C, D, & E

	MIL-STD 810C	MIL-STD 810D	MIL-STD 810E
	Method: Proc/Cat	Method: Proc/Cat	Method: Proc/Cat
Low Pressure:	500.1: I	500.2: I, II	500.3: I, II
High Temp:	501.1: I, II	501.2: I, II	501.3: I, II
Low Temp:	502.1: I	502.2: I, II	502.3: I, II
Temp Shock:	503.1: I	503.2: I	503.3: I
Solar Radiation:	505.1: I	505.2: I	505.3: I
Rain:	506.1: I, II	506.2: I, II	506.3: I, II
Humidity:	507.1: II	507.2: II, III	507.3: II, III
Salt Fog:	509.1: I	509.2: I	509.3: I
Dust:	510.1: I	510.2: I	510.3: I
Vibration:	514.2: VII, VIII, X	514.3: I	514.4: I
Shock:	516.2: I, II, V	516.3: I, IV	516.4: I, IV

## 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

The HT Series is Factory Mutual approved and Canadian Standard Association approved as intrinsically safe 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, and battery.



# SPECTRUM

COMMUNICATIONS



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**Spectrum Communications**



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MD-EU-HT1550XLS

[www.spectrum-communications.ca](http://www.spectrum-communications.ca)

# HT1550·XLS™ Portable Radio

Available in VHF and UHF

Operates on Conventional and LTR® Systems



Delivers all the communications power and control you need to maximize your efficiency and productivity on the job.

## 7 Programmable Buttons

Including Emergency Button

### • System/All Group/Auto Group Selective Scanning

Define the frequency and type of transmissions your radio scans

### • Multi-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 List

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

### Front Programming Capable

Program frequencies, PL codes and more using the keypad

## Up to 160 Conventional Channels

## Up to 15 Trunked Zones with 16 Talkgroups Each

### Emergency Button†

Sounds alarm or alerts dispatcher in urgent situations

### Four-Line Alphanumeric Display with User-Friendly Icons

Identifies trunked zones, talkgroups, and conventional channels

### Control Buttons

Easy management of menu, navigation, and exit functions

### Navigation Button

Scroll through menus and text on the display

### Call Stacking

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

## HT1550·XLS

## Proficient and Powerful

*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 you're 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/Decode)*  
*Sounds an alarm or alerts individual user or dispatcher in urgent situations*
- *Selective Radio Inhibit (Decode)*  
*Allows system owner to disable stolen or missing radios*

## HT1550·XLS™ The Exceptional 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.

*†Emergency in LTR mode is dependent upon system access*