



# PRO5150 Elite

Portable Radio

You are determined to succeed and Motorola is committed to keep you one step ahead by providing communication solutions to meet your exact needs.



For those who require absolute freedom to perform and need to be constantly “in touch,” the compact and convenient PRO5150 Elite portable radio combines a lightweight size with all the advanced features and technology you would expect from Motorola.

#### Internal Voice Operated Transmission (VOX)

With the use of a headset, you can speak and listen to a radio conversation without having to use your hands.

#### Tone Tagging

Eight different ringing tones identify an individual or group.

#### Emergency Siren

A dedicated button on the top of the radio can be programmed to make a piercing sound when pushed in case of an emergency.

#### Programmable RF Power Level

Each channel can be programmed with a high or low power setting depending on your coverage needs. Any of the side buttons on the radio can be programmed to temporarily switch between high and low power levels.

#### 12.5/25 kHz Programmable Channel Spacing

Each channel can be programmed with either 12.5 kHz or 25 kHz channel spacing, providing flexibility to comply with changing government regulations.

#### Escalert

The sound of the alert tone gradually increases when a selective call or Call Alert™ is not answered.

# PRO5150 Elite Portable Radio

General		VHF	UHF
Dimensions HxWxD	inches mm	4.00 x 2.19 x 1.20 101.5 x 55.5 x 30.5	
Weight	grams ounces	250 9	
Power Supply	Rechargeable battery 7.5 volts		
Average Battery Life @ 5/5/90 Duty Cycle*: Standard High Capacity Lithium Battery Ultra High Capacity Lithium Battery	9 hrs @ low power/7 hrs @ high power 13 hrs @ low power/10 hrs @ high power		
Model Number	LAH38KDC9AA3AN		LAH38RDC9AA3AN/LAH38SDC9AA3AN
Frequency Range	136 - 174 MHz		403 - 470 MHz 450 - 527 MHz
Channel Spacing	12.5 / 20 / 25 kHz		
Frequency Stability (-30°C to 60°C, 25°C Ref.)	±2.5 ppm		
*5% receive, 5% transmit, 90% standby			

Transmitter	
RF Power Output	1-5 W
Modulation Limiting	±2.5 kHz @ 12.5 kHz / ±4.0 kHz @ 20 kHz / ±5.0 kHz @ 25 kHz
FM Hum and Noise	-40 dB
Conducted / Radiated Emissions	-36 dBm < 1GHz / -30 dBm > 1GHz
Audio Response (0.3-3 kHz)	+1 to -3 dB
Audio Distortion (typical)	3%

Receiver	
Sensitivity (12 dB SINAD) (typical)	EIA 0.25 µV
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 (typical)	3%
Hum and Noise	-40 dB
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

Military Standards	810C		810D		810E	
	Methods	Procedures	Methods	Procedures	Methods	Procedures
Low Pressure	500.1	1	500.2	2	500.3	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	8,10	514.3	1	514.3	1
Shock	516.2	1,2,5	516.3	1,4	516.4	1,4

Specifications subject to change without notice. All electrical specifications and methods refer to EIA/TIA 603 standards.

## Portable Radio Features

- ▶ 16 Channels
- ▶ PTT-ID
- ▶ Call Alert (decode only)
- ▶ Emergency Alarm
- ▶ Emergency Siren
- ▶ Tone Tagging
- ▶ Voice Selective Call (decode only)
- ▶ Selective Radio Inhibit (decode only)
- ▶ Quik-Call II Signaling (decode only)
- ▶ Battery Gauge (LED/Tone)
- ▶ Repeater/Unit-to-Unit Operation
- ▶ Monitor
- ▶ Single Priority Scan
- ▶ Tight/Normal Squelch
- ▶ Busy Channel Lockout
- ▶ Time-Out Timer
- ▶ Nuisance Channel Delete
- ▶ CSQ/PL/DPL/inv-DPL

## Quality/Reliability

-  Motorola Accelerated Life Test
-  Two year warranty on radio parts and labor. One year warranty on all accessories includes antennas and microphones.
-  Military Standards MIL-STD 810 C, D, E

Contact your Motorola Representative today for more information.

