

PRO5150™ Portable Radios

Professional

SPECIFICATION SHEET

BENEFITS

1 Trunked Zone with 16 Talkgroups (16 Channel VHF/UHF Models)

Improve your efficiency with trunked operation for any LTR system.

Companding Technology

With X-Pand™ voice compression technology, audio quality is clear and crisp even in noisy surroundings.

MDC Signaling Features

Motorola's unique MDC signaling features include selective call and call alert (decode). In addition, the PRO5150 portable supports radio check (decode) and PTT-ID (encode) for efficient workgroup communication.

Emergency Siren/Alert

A dedicated button on the top of the radio can be programmed to make a piercing sound when pushed in case of an emergency. For more critical emergencies, the dispatch center can be alerted instead.

12.5/25 kHz Switchable 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.

System/All Group/Auto Group Selective Scanning (16 Channel VHF/UHF Models)

Three scan modes allow you to monitor multiple talkgroups transmissions.

Escalert

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

Internal Voice Operated Transmission (VOX)

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

FEATURES

- 4 or 16 Conventional Channels
- PTT-ID (encode)
- Battery Gauge (LED/TONE)
- Repeater/Unit-to-Unit Operation
- Monitor
- Tight/Normal Squelch
- Busy Channel Lockout
- Time-Out Timer
- Nuisance Channel Delete
- CSQ / PL / DPL / inv-DPL
- Option Board Port
- Emergency Siren



In addition, the 16 channel VHF/UHF models offer these enhancements:

- 1 Trunked Zone with 16 Talkgroups
- Emergency Alert (encode)
- Call Alert™ (decode)
- Voice Selective Call (decode)
- Selective Radio Inhibit (decode)
- Quik-Call II Signaling (decode)
- Single Priority Scan

Options

- Camouflage Housing
- Yellow Housing
- Impres Battery and Charger
- Intrinsically Safe (FM)
- DTMF Retrofit Keypad (black only)



Motorola's PRO5150 portable radio is the solution for professionals who require a rugged and reliable radio to help them stay in contact. This practical radio can easily help you to increase productivity by keeping you communicating, yet streamlines your radio use—allowing you to concentrate on the job at hand.

The PRO5150 radio's simple user interface allows you to quickly become productive on LTR systems. With the PRO5150 portable radio, communication could not be easier.

PRO5150™ PORTABLE RADIOS


GENERAL	LOW BAND	VHF/UHF
Dimensions	Height x Width x Depth 5.40 in x 2.26 in x 1.50 in / 137 mm x 57.5 mm x 37.5 mm	
Weight	420/15	
Power Supply	Rechargeable battery 7.5 volts	
Average Battery Life @ 5/5/90 Duty Cycle*	11 hrs @ low power / 8hrs @ high power	
Model Numbers	LAH25BEC9AA3_N LAH25CEC9AA3_N	VHF / LAH25KDC9AA2_N VHF / LAH25KDC9AA3_N UHF / LAH25RDC9AA2_N UHF / LAH25RDC9AA3_N UHF / LAH25SDC9AA2_N UHF / LAH25SDC9AA3_N
Channel Spacing	20 kHz	12.5 / 20 / 25 kHz
Frequency Range / FCC Approval	29.7 - 42.0 MHz / AZ489FT1625 35.0 - 50.0 MHz / AZ489FT1625	VHF / 136-174 MHz / AZ489FT3801 VHF / 136-174 MHz / AZ489FT3801 UHF / 403-470 MHz / AZ489FT4826 UHF / 403-470 MHz / AZ489FT4826 UHF / 450-527 MHz / AZ489FT4834 UHF / 450-527 MHz / AZ489FT4834
Frequency Stability (-30°C to +60°C, +25°C Ref.)	± 10 ppm	±5 ppm @ 25 kHz ±2.5 ppm @ 12.5 kHz


* 5% Receive, 5% Transmit, 90% Standby

TRANSMITTER	LOW BAND	VHF/UHF	RECEIVER	LOW BAND	VHF/UHF
RF Power Output	1-6 W	VHF / 1-5 W UHF / 1-4 W	Sensitivity (12 dB SINAD) EIA (typical)	0.22 µV	
Modulation Limiting	±4.0 @ 20kHz	±2.5 @ 12.5kHz ±4.0 @ 20kHz ±5.0 @ 25kHz	Sensitivity (20 dB SINAD) ETS	0.50 µV	
FM Hum & Noise	-40 dB		Intermodulation per EIA	70 dB	
Conducted/ Radiated Emissions	66 dBw		Adjacent Channel	70 dB	60 dB @ 12.5 kHz
Audio Response (0.3 - 3 kHz)	+1 to -3 dB		Selectivity	70 dB @ 25 kHz	
Audio Distortion (typical)	2%		Spurious Rejection	70 dB	
			Rated Audio	0.5 W	
			Audio Distortion	3%	
			@ Rated Audio (typical)		
			Hum and Noise	-45 dB @ 12.5 kHz/-50 dB @ 25 kHz	
			Audio Response (0.3 - 3 kHz)	+1 to -3 dB	
			Conducted Spurious Emission	-57 dBm < 1 GHz / -47 dBm > 1 GHz	

MILITARY STANDARDS	810C		810D		810E	
Applicable MIL-STD	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	3	507.3	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	514.4	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.

 Motorola Accelerated Life Test
 Meets IP54 Standard

 Military Standards MIL-SPECS 810 C, D, E

Contact your Motorola Representative for more information.



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