

# PRO7150™ Portable Radios

Professional

## SPECIFICATION SHEET



### BENEFITS

#### 15 Trunked Zones (16 Talkgroups each)

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. So, whether it's the harsh environment of a construction site or the elegance of an exclusive hotel, the radio of choice is the PRO7150 portable radio.

#### MDC Signaling Features

Motorola's unique MDC signaling features — including selective call, call alert, radio check and PTT-ID allow you to monitor workgroups effectively.

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

Three scan modes allow you to define the frequency and type of transmission your radio scans.

#### Radio Signal Strength Indicator

An icon on the display shows the strength of the signal being received by the radio; 5 bars indicate the strongest signal.

### FEATURES

- 128 Conventional Channels
- PTT-ID (encode/decode)
- Call Alert™ (encode/decode)
- Voice Selective Call (encode/decode)
- Radio Check (encode/decode)
- Selective Radio Inhibit (decode)
- Quik-Call II Signaling (encode/decode)
- Zoning
- Emergency Alert
- Monitor
- Dual Priority Scan
- Built-in DTMF Keypad
- Alphanumeric 14 Character Display
- Clock & Alarm
- Tight / Normal Squelch
- Option Board Port
- Busy Channel Lockout
- Time-Out Timer
- Nuisance Channel Delete
- Battery Gauge Icon
- CSQ / PL / DPL / inv-DPL
- 15 Trunked Zones (16 Talkgroups each)

### Options

- Camouflage Housing
- Yellow Housing
- Impres Battery and Charger
- Intrinsically Safe (FM)



The intelligent PRO7150 portable radio from Motorola is essential for growing organizations because of its unique versatility. Whatever your profession, you can become more efficient and productive using this powerful radio.

Efficient and cost effective, LTR trunking gives you a wider calling range, faster channel access, greater privacy, and higher user and talkgroup capacity — which means your PRO7150 radio can accommodate virtually all your business communication needs. What's more, your PRO7150 portable can easily be programmed — so you can rest assured your radio will continue to serve you effectively as your business grows and changes.

# PRO7150™ PORTABLE RADIOS

GENERAL	VHF	UHF
<b>Dimensions</b>	Height x Width x Depth	
<b>With standard high-capacity NiMH battery;</b>	5.40 in x 2.26 in x 1.50 in	
<b>without belt clip</b>	137 mm x 57.5 mm x 37.5 mm	
<b>Weight (grams/ounces)</b>	420 / 15	
<b>Power Supply</b>	Rechargeable battery 7.5 Volts	
<b>Average Battery Life @ 5/5/90 Duty Cycle*</b>	11 hrs @ low power / 8 hrs @ high power	
<b>Model Numbers</b>	LAH25KDH9AA6_N	LAH25RDH9AA6_N LAH25SDH9AA6_N
<b>Frequency Range / FCC Approval</b>	136 - 174 MHz / AZ489FT3801	403 - 470 MHz / AZ489FT4826 450 - 527 MHz / AZ489FT4834
<b>Channel Spacing</b>	12.5 / 20 / 25 kHz	
<b>Frequency Stability (-30°C to 60°C, 25°C Ref.)</b>	±5 ppm @ 25 kHz / ±2.5 ppm @ 12.5 kHz	

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

TRANSMITTER	VHF	UHF
<b>RF Power Output</b>	1 - 5 W	1 - 4 W
<b>Modulation Limiting</b>	±2.5 kHz @ 12.5 kHz / ±4.0 kHz @ 20 kHz / ±5.0 kHz @ 25 kHz	
<b>FM Hum &amp; Noise</b>	-40 dB	
<b>Conducted / Radiated Emissions</b>	-66 dBm	
<b>Audio Response (0.3 - 3 kHz)</b>	+1 to -3 dB	
<b>Audio Distortion (typical)</b>	3%	

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

MILITARY STANDARDS	810C		810D		810E	
	Methods	Procedures	Methods	Procedures	Methods	Procedures
<b>Low Pressure</b>	500.1	1	500.2	1,2	500.3	1,2
<b>High Temperature</b>	501.1	1,2	501.2	1,2	501.3	2
<b>Low Temperature</b>	502.1	1	502.2	1,2	502.3	1,2
<b>Temperature Shock</b>	503.1	1	503.2	1	503.3	1
<b>Solar Radiation</b>	505.1	1	505.2	1	505.3	1
<b>Rain</b>	506.1	1,2	506.2	1,2	506.3	1,2
<b>Humidity</b>	507.1	2	507.2	3	507.3	3
<b>Salt Fog</b>	509.1	1	509.2	1	509.3	1
<b>Dust</b>	510.1	1	510.2	1	510.3	1
<b>Vibration</b>	514.2	8,10	514.3	1	514.3	1
<b>Shock</b>	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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