MOTOROLA

PRO5550™/ PRO7550™ Portable Radios

Professional

PRO5550 BENEFITS

1 Trunked Zone with 15 Talkgroups

Improve your efficiency with trunked operation for 800 MHz SMARTNET systems by improving cooperation and better coordination of different teams in your organization.

Talkgroup Scan

Scanning a combination of talkgroups and conventional channels for messages, and monitoring of channels in a multiple system environment, you can stay in touch with other teams performing different activities.

Telephone Interconnect Capability

The PRO5550 radio allows users to receive an incoming telephone call through the trunked system, thus enhancing their communication options.

Conventional Talkaround Mode

Allows unit-to-unit communications when the system is out of range.

PRO7550 BENEFITS

Multiple System/Talkgroup Capability

Provides operation and flexible access of up to 10 systems / 15 talkgroups allowing better cooperation and coordination of different teams in your organization.

14 Character LCD Display with Alias

The 14 character alphanumeric display with user-friendly icons makes the radio's features and commands simple to understand.

Talkgroup Scan

Scanning a combination of talkgroups and conventional channels for messages, and monitoring of channels in a multiple system environment, you can supervise multiple activities.

Telephone Interconnect

The PRO7550 radio allows users to receive and make telephone calls through the trunked system. Frequently used numbers may be accessed through the user-editable phone book.

Conventional Talkaround Mode

Allows unit-to-unit communications when the system is out of range.

FEATURES

• Selective Radio Inhibit (decode)
• Group Call
• Variable RF Power Level
• Alert Tones
• Out of Range Tone
• Conventional Mode Scan
• Trunking Mode Scan
• Dual Mode Scan
• Talkgroup Scan
• Priority Scan
• Failsoft Operation
• Low Battery Warning
• Time-Out-Timer
• Busy Channel Lockout
• CSQ / PL / DPL Signaling

Unique to PRO5550 Radios

• Telephone Interconnect (decode)
• Call Alert (decode)
• PTT-ID (encode)
• Radio Check (decode)
• Private Call (decode)
• Selective Call (decode)

Unique to PRO7550 Radios

• Telephone Interconnect (encode/decode)
• Call Alert (encode/decode)
• PTT-ID (encode/decode)
• Radio Check (encode/decode)
• Private Call (encode/decode)
• Selective Call (encode/decode)
• Battery Gauge

The PRO Series Privacy Plus radios are essential in a dynamic environment where effective and instant communication is a critical factor. Regardless of your industry, you can improve your operating efficiency, reduce the risks to employee safety and maximize your ability to respond to emergency situations by using these rugged and reliable radios on an 800 MHz SMARTNET system. Motorola's trunking signaling features–including Selective Call, Call Alert,™ Radio Check, and PTT-ID–allow you to monitor workgroups effectively. The efficiency of trunking gives you a wider calling range, faster channel access, greater privacy, and higher user and talkgroup capacity.

PRO5550™/PRO7550™ PORTABLE RADIOS

GENERAL	800 MHz
Dimensions	Height x Width x Depth
With standard high-capacity NiMH battery; without belt clip	5.40 in x 2.26 in x 1.50 in / 137 mm x 57.5 mm x 37 .5 mm
Weight (grams/ounces)	420 / 15
Power Supply	Rechargeable battery 7.5 Volts
Average Battery Life @ 5/5/90 Duty Cycle*	11 hrs @ low power / 8 hrs @ high power
Model Numbers	PRO5550 LAH25UCC6GB3_N PRO7550 LAH25UCH6GB6_N
Frequency Range / FCC Approval	PRO5550 806 - 824 MHz / 851-869 MHz** / AZ489FT5795 PRO7550 806 - 824 MHz / 851-869 MHz** / AZ889FT5795
Channel Spacing	12.5 / 20 / 25 kHz
Frequency Stability (-30°C to 60°C, 25°C Ref.)	±2.5 ppm @ 12.5 kHz

* 5% Receive, 5% Transmit, 90% Standby   ** Specifications for 821-824 / 851-869 MHz are typical.

TRANSMITTER	800 MHz
RF Power Output	1 - 2,5 W
Modulation Limiting	±5.0 kHz @ 806-821 kHz / ±4.0 kHz @ 821-824 kHz
FM Hum & Noise	-40 dB
Conducted / Radiated Emissions	-66 dBm
Audio Response (0.3 - 3 kHz)	+1 to -3 dB
Audio Distortion (typical)	3%

RECEIVER	800 MHz
Sensitivity (12 dB SINAD) EIA (typical)	0.25 µV
Intermodulation per EIA	70 dB
Adjacent Channel Selectivity	70 dB
Spurious Rejection	70 dB
Rated Audio	0.5 W
Audio Distortion @ Rated Audio (typical)	3%
Hum and Noise	-50 dB
Audio Response (0.3 - 3 kHz)	+1 to -3 dB
Conducted Spurious Emission Per FCC Part 15	-57 dBm

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	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	514.3	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.

(ALT) Motorola Accelerated Life Test   (MIL-STD 810) Military Standards MIL-SPECS 810 C, D, E   Contact your Motorola Representative for more information.

(IP) Meets IP54 Standard

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