



# PR1500

## Professional Series Two-Way Radio



### 32 Channels

#### Large Raised Channel and On/Off Volume Knobs

Easy to operate with gloves

#### 3 Position Concentric Switch

Allows customization of radio features

#### Programmable Emergency Button

Alerts dispatcher in emergency

#### Sealed Accessory Connector

Backward compatible with existing accessories

#### Enhanced Audio Features

Noise reduction software and Audio Gain Control (CPS programmable) allow audio customization

#### Adjustable Power Levels

Help preserve battery life

#### Priority/Dynamic Priority Channel Scan

Frequently scan higher priority channels. Easily add or delete scan list members

#### Monitor/Permanent Monitor

Allows continuous channel monitoring

#### 3 Programmable Side Buttons and Large Textured Push-To-Talk Button

Easy access to favorite features and good tactile response. Easy to operate when wearing gloves

### IMPRES™ Energy System

Standard Package includes an IMPRES charging and reconditioning system, a help in automating battery maintenance, optimizing battery cycle life, and maximizing talktime

### PR1500 Standard Package

- IMPRES NiMH 1850 mAh Battery
- IMPRES Single Unit Rapid Charger
- VHF or UHF Antenna
- 2.25 Inch Belt Clip
- Remote Speaker
- Microphone Adapter
- Accessory Connector
- Dust Cover
- User Guide CD
- 2-Year Standard Warranty

### Additional Features

Send and receive information in a variety of ways:

#### Quik-Call II™ and MDC1200 Signaling

- **Selective Call (Decode)**  
Receive a call from a specific group or individual
- **Call Alert (Decode)**  
Receive alerts of incoming calls when a short distance from your radio

#### MDC1200 Signaling Only

- **Push-to-Talk ID (Encode)**  
Identify outgoing calls.
- **RadioCheck (Decode)**  
Lets others check users radio status
- **Emergency (Encode)**  
Alerts dispatcher in urgent situations
- **Selective Radio Inhibit (Decode)**  
Allows system owner to disable stolen or missing radios

### When it comes to public safety, a community shouldn't settle for "good enough."

And neither should those who work tirelessly to keep our community safe and secure. That's why so much innovation went into designing the PR1500 Professional Series two-way radio from Motorola.

The housing and control knobs of the PR1500 are rugged and tough. But what really sets this radio apart is how it performs. You'll notice a rich, full audio that can be customized for your ear as well

as the environment. The PR1500 also offers enhanced performance that delivers wide range and improved battery life.

### P25 Conventional Upgradeable

With a single software upgrade, the PR1500 becomes P25 interoperable. This essential feature gives you the ability to interact with other networks in times of crisis.

## SPECIFICATION SHEET

PR1500 PROFESSIONAL SERIES  
Two-Way Radio

### GENERAL SPECIFICATIONS

	VHF 136-174 MHz	UHF R1 380-470 MHz	UHF R2 450-520 MHz	
Channel Capacity	32	32	32	Operating Temperature
Model Numbers	AAH79KDC9PW5_N	AAH79QDC9PW5_N	AAH79SDC9PW5_N	Storage Temperature
FCC Designation	AZ489FT3807	AZ489FT4865	AZ489FT4866	Humidity
FCC Emissions Designators	11K0F3E, 16K0F3E, 8K10F1E, 8K10F1D			ESD
Power Supply	Rechargeable nickel-cadmium, or IMPRES nickel-metal hydride battery			Water Intrusion
Dimensions (HxWxL)	6.00 x 2.30 x 1.50 inches			
Weight	with NiCD Battery with FM NiCD Battery with IMPRES NiMH Battery with FM IMPRES NiMH Battery	19.85 oz 19.85 oz 20.63 oz 20.63 oz		
Average Battery Life @ 5-5-90 Duty Cycle*	High Power (5W) with High Capacity NiCD with High Capacity NiCD FM with High Capacity NiMH with High Capacity NiMH FM	8 hours 8 hours 10 hours 10 hours		

\* 5% receive, 5% transmit, 90% standby

### TRANSMITTER

	Typical Performance Specifications		
	VHF	UHF R1	UHF R2
Frequency Range	136-174 MHz	380-470 MHz	450-520 MHz
Channel Spacing	12.5/25 kHz	12.5/25 kHz	12.5/25 kHz
Maximum Frequency Separation	Full Bandsplit	Full Bandsplit	Full Bandsplit
Rated RF Output Power Adj*	1 to 5 W	1 to 5 W	1 to 5 W
Frequency Stability* (-30°C to +60°C; +25°C Ref.)	±0.00025%	±0.0002%	±0.0002%
Modulation Limiting* 25 kHz channel NPSAC channel 12.5 kHz channel	±5.0 kHz N/A ±2.5 kHz	±5.0 kHz N/A ±2.5 kHz	±5.0 kHz N/A ±2.5 kHz
Emissions* (Conducted & Radiated)	-65 dBc	-70 dBc	-70 dBc
Audio Response* (6 dB/Octave Pre-emphasis from 300 to 3000 Hz)	+1, -3 dB	+1, -3 dB	+1, -3 dB
FM Hum & Noise Ratio* 25 kHz 12.5 kHz	-46 dB -42 dB	-45 dB -40 dB	-45 dB -40 dB
Audio Distortion*	1%	2.0%	2.0%

\* Measured in the analog mode per TIA/EIA 603.  
Specifications subject to change without notice.

### RECEIVER

	Typical Performance Specifications		
	VHF	UHF R1	UHF R2
Frequency Range	136-174 MHz	380-470 MHz	450-520 MHz
Channel Spacing	12.5/25 kHz	12.5/25 kHz	12.5/25 kHz
Maximum Frequency Separation	Full Bandsplit	Full Bandsplit	Full Bandsplit
Audio Output Power at Rated*	500 mW	500 mW	500 mW
Frequency Stability* (-30°C to +60°C; +25°C Ref.)	±0.00025%	±0.0002%	±0.0002%
Analog Sensitivity* 12 dB SINAD	.25 µV	.25 µV	.25 µV
Selectivity* 25 kHz channel 12.5 kHz channel	-80 dB -63 dB	-73 dB -63 dB	-73 dB -63 dB
Intermodulation* Spurious Rejection*	-78 dB -80 dB	-73 dB -75 dB	-75 dB -75 dB
FM Hum and Noise* 25 kHz 12.5 kHz	-52 dB -40 dB	-47 dB -40 dB	-50 dB -47 dB
Audio Distortion*	1%	2.0%	2.0%

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

	MIL-STD 810C		MIL-STD 810D		MIL-STD 810E		MIL-STD 810F	
	Method	Proc./Cat.	Method	Proc./Cat.	Method	Proc./Cat.	Method	Proc./Cat.
Low Pressure	500.1	I	500.2	II	500.3	II	500.4	II
High Temperature	501.1	I, II	501.2	I/A1, II/A1	501.3	I/A1, II/A1	501.4	I/Hot, II/Hot
Low Temperature	502.1	I	502.2	I/C3, II/C1	502.3	I/C3, II/C1	502.4	I/C3, II/C1
Temperature Shock	503.1	I*	503.2	I/A1C3	503.3	I/A1C3	503.4	I
Solar Radiation	505.1	II	505.2	I	505.3	I	505.4	I
Rain	506.1	I, II	506.2	I, II	506.3	I, II	506.4	I, III
Humidity	507.1	II	507.2	II	507.3	II	507.4	I*
Salt Fog	509.1	I*	509.2	I*	509.3	I*	509.4	I*
Blowing Dust	510.1	I	510.2	I	510.3	I	510.4	I
Vibration	514.2	VIII/F, Curve-W	514.3	I/10, II/3	514.4	I/10, II/3	514.5	I/24
Shock	516.2	I, II	516.3	I, IV	516.4	I/IV	516.5	I, IV

\* Military Standards specify a single procedure for this test.

### FACTORY MUTUAL APPROVALS

The PR1500 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.

### Accelerated Life Test

Motorola's Accelerated Life Test (ALT) is a developmental process of rigorous laboratory testing that simulates years of field use. Motorola has a firm commitment to quality and reliability. These radios have been designed, manufactured and tested to achieve high levels of component and workmanship quality. Motorola radios are designed to minimize costly repairs and downtime.



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