

Innovative



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

The PR1500 puts innovative Motorola technology to work for the safety professional and first responders that make our communities secure.

PR1500 Additional Features

MDC1200 Signaling

Send and receive information in a variety of ways including:

- **Push-to-Talk ID (Encode)** Identify your outgoing calls
- **Selective Call (Decode)** Receive a call from a specific group or individual
- **Call Alert (Decode)** Receive alerts of incoming calls when you're a short distance from your radio
- **Radio Check (Decode)** Lets others check your radio status
- **Emergency (Encode)** Programmable Emergency/Silent Emergency feature alerts dispatcher in urgent situations
- **Selective Radio Inhibit (Decode)** Allows system owner to disable stolen or missing radios

PR1500 Standard Package

- NiCD 1525 mAh, 7.5V Battery
- Single Unit Universal Rapid Charger
- VHF or UHF Antenna
- 2.25" Belt Clip
- RSM Adapter
- Accessory Connector Dust Cover
- User's Guide CD
- 2-Year Standard Warranty

For more information, please contact:



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MD-PR1500TRIFOLD



STRENGTHENING THE LINK:
**TWO-WAY RADIOS FOR A STRONGER,
MORE SECURE COMMUNITY**

PR1500

Professional Series
Two-Way Radios and Accessories

PR1500



PR1500 Features

32 Channels

Large Raised Channel and On/Off Volume Knobs

Easy to operate when wearing gloves

3 Position Concentric Switch

Allows customization of radio features for easy use

Programmable Emergency Button

Alerts dispatcher in an emergency situation

Sealed Accessory Connector

Customize audio solutions to meet your needs. Backward compatible with existing accessories

Enhanced Audio Features

Noise reduction software and Audio Gain Control (CPS programmable) allow audio customization to meet your needs

Adjustable Power Levels

Helps 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. Easy to operate when wearing gloves and provides good tactile response

GENERAL SPECIFICATIONS			
	VHF	UHF R1	UHF R2
Channel Capacity	136-174 MHz	380-470 MHz	450-520 MHz
Model Numbers	AAH79KDC9PW5_N	AAH79ODC9PW5_N	AAH79SDC9PW5_N
FCC Designation	AZ489FT3807	AZ489FT4865	AZ489FT4866
FCC Emissions Designators	11K0F3E, 16K0F3E, 8K10F1E, 8K10F1D		
Power Supply	One rechargeable nickel-cadmium, or nickel-metal hydride		
Dimensions (HxWxL)	6.00" x 2.30" x 1.50"		
Weight			
with NiCD Battery	19.85 oz		
with FM NiCD Battery	19.85 oz		
with NiMH Battery	20.63 oz		
with FM NiMH Battery	20.63 oz		

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	±5.0 kHz	±5.0 kHz	±5.0 kHz
NPSAC channel	N/A	N/A	N/A
12.5 kHz channel	±2.5 kHz	±2.5 kHz	±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 Radio*			
25 kHz	-46 dB	-45 dB	-45 dB
12.5 kHz	-42 dB	-40 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 chnl	-80 dB	-73 dB	-73 dB
12.5 kHz chnl	-63 dB	-63 dB	-63 dB
Intermodulation*	-78 dB	-73 dB	-75 dB
Spurious Rejection*	-80 dB	-75 dB	-75 dB
FM Hum and Noise*			
25 kHz	-52 dB	-47 dB	-50 dB
12.5 kHz	-40 dB	-40 dB	-47 dB
Audio Distortion*	1%	2.0%	2.0%

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

PORTABLE MILITARY STANDARDS 810 C, 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.



ENVIRONMENTAL SPECIFICATIONS	
Operating Temperature	-30°C to +60°C
Storage Temperature	-40°C to +85°C
Humidity	Per MIL-STD
ESD	IEC 801-2 KV
Water Intrusion	IP54, MIL-STD

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.