SPECIFICATION SHEET

PM1500 PROFESSIONAL SERIES Two-Way Mobile Radio

	GENERAL SPECIF	ICATIONS	ENVIRONMENT	AL
	UHF	VHF	Operating Temperature	-30°C to +
Frequency Range	380-470 MHz	136-174 MHz	Storage Temperature	-40°C to +
Channel Bandwith	12.5/25 kHz	12.5/25 kHz	International Protection	IP54 certi
Dimensions (H x W x D) Control Head High Power Radio Transceiver	2.56 x 7.22 x 3.38 inches 2.765 x 8.08 x 12.31 inche	(65 x 183.5 x 85.8 mm) es (70.2 x 205.2 x 312.7 mm)		
Weight Control Head High Power Radio Transceiver	6.1 lbs (2.77 kg) 8.8 lbs (3.99 kg)			

riigiri ovver riadio iraniscerver	2.700 X 0.00 X 12.01 IIIGIIG3 (70	.2 × 200.2 × 012.7 111111	
Weight Control Head High Power Radio Transceiver	6.1 lbs (2.77 kg) 8.8 lbs (3.99 kg)		
	POWER AND BATTER	Y DRAIN	
Model Type	380-470 MHz	136-174 MHz	
Minimum RF Power Output	25-110 Watt	25-110 Watt	
Operation	12V DC Negative Ground	12V DC Negative Ground	
Standby at 13.8V	0.65A-0.85A	0.5A-0.7A	
Receive at Rate Audio at 13.8V	15A-3 2A	13A-3 0A	

TRANSMITTER					
	Typical Performance Specifications				
	UHF	VHF			
Frequency Range	380-470 MHz	136-174 MHz			
RF Power	25-110VV	25-110W			
Maximum Frequency Separation	Ref Above Bandsplit	Full Bandsplit			
Frequency Stability Operating Frequency Accuracy	2 ppm (-30° to +60°C; +25°C ref) +/- 2 ppm	2.5 ppm (-30° to +60°C)			
Modulation Limiting 25 kHz channel 12.5 kHz channel	+5 kHz +2.5 kHz	+5 kHz +2.5 kHz			
Channel Spacing Analog	12.5/25 kHz	12.5/25 kHz			
FM Hum and Noise 25 kHz 12.5 kHz	45 dB 40 dB	50 dB 40 dB			
Emissions	Conducted Radiated -85 dBc -20 dBc	Conducted Radiated -85 dBc -85 dBc			
Audio Response (6 dB/Octave Pre-emphasis from 300 to 3000 Hz)	+1, -3 dB (EIA)	+1, -3 dB (EIA)			
Audio Distortion per EIA	2%	2%			

RECEIVER				
	Typical Performance Specifications			
	UHF	VHF		
Channel Spacing	12.5/25 kHz	12.5/25 kHz		
Maximum Frequency Separation	Full Bandsplit	Full Bandsplit		
Analog Sensitivity 20 dB Quieting 12 dB SINAD per EIA	0.25μV 0.40μV 0.20μV 0.30μV	0.25µV 0.40µV 0.20µV 0.30µV		
Intermodulation	80 dB 85 dB	85 dB 85 dB		
Spurious Response Rejection	90 dB I 90 dB	90 dB I 90 dB		
Audio Output Power at 3% distortion	7.5W (ext. speaker)	7.5W (ext. speaker)		
Adjacent Channel Rejection Selectivity (12.5 kHz/25 kHz)	75 dB 82 dB	85 dB 85 dB		

FCC TYPE ACCEPTANCE ID				
TRANSI	/IITTER POWER			
Band	380-470 MHz	136-174 MHz		
Output	25-110 W	25-110 W		
Number	AZ492FT4870	AZ492FT3808		
Model	AAM79KTD9PW5 N	AAM79OTD9PW5 N		

MILITARY STANDARDS 810C, D, E & F								
	MIL-S	MIL-STD 810C MIL		TD 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 Storage	501.1	I	501.2	I/A1	501.3	I/A1	501.4	I/Hot
High Temperature Storage	501.1	II	501.2	II/A1	501.3	II/A1	501.4	II/Hot
Low Temperature Storage	502.1	I	502.2	I/C3	502.3	I/C3	502.4	I/C3
Low Temperature Operational	502.1	I	502.2	II/C1	502.3	II/C1	502.4	II/C1
Temperature Shock	503.1	-	503.2	I/A1-C3	503.3	I/A1-C3	503.4	I/Hot-C3
Solar Radiation	505.1	II	505.2	I	505.3	I	505.4	1
Rain Blowing	506.1	I	506.2	I	506.3	I	506.4	1
Rain Steady	506.1	II	506.2	II .	506.3	II	506.4	III
Humidity	507.1	II	507.2	II	507.3	II	507.4	-
Salt Fog	509.1	-	509.2	-	509.3	-	509.4	-
Blowing Dust	510.1		510.2	I	510.3	I	510.4	
Blowing Sand			510.2	II	510.3	II	510.4	II
Vibration Minimum Integrity	514.2	VIII/F, Curve-W	514.3	I/10	514.4	I/10	514.5	1/24
Vibration Loose Cargo			514.3	II/3	514.4	11/3	514.5	II/5
Shock Functional	516.2	1	516.3	I	516.4	I	516.5	1
Shock Crash Hazard	516.2	III	516.3	V	516.4	V	516.5	V
Shock Bench Handling	516.2	V	516.3	VI	516.4	VI	516.5	VI

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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PM1500

Professional Series Two-Way Mobile Radio





Multicolored LED Indicators

4 Programmable Buttons

Easy access to favorite features.

Optional keypad microphone allows you to scroll through the menu and access up to 16 programmable features

Programmable Emergency Button

Alerts dispatcher in an emergency situation

Backlit 8-Character Alphanumeric Display

User friendly icons and soft menu so you easily view status and access features. Display for viewing of channel names and Caller ID

Large Channel and Push Button On/Off Volume Knobs

7.5 Watt External Speaker

Allows for clear, crisp communication in loud environments

P25 Conventional Upgradable

Dual Control Head Option

Enables multiple radio control heads to be located within the same vehicle. Available with independent volume and backlight display

PM1500 Standard Package

- Palm Microphone
- 7.5 Watt External Speaker
- Mounting Hardware
- 20 Ft. Power Cable
- 17 Ft. Remote Mount Cable
- Ignition Sense Cable
- User Guide CD
- 2-Year Standard Warranty

Dual Control Head Standard Package also includes:

- Two Palm Microphones
- One 7.5 Watt External Speaker
- One 13 Watt External Speaker
- Two 17 Ft. Remote Mount Cables
- Additional Mounting Bracket

Additional Features

Send and receive information in a variety of ways:

Quik-Call II™, MDC1200 and DTMF 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 radio

MDC1200 Signaling Only

- Push-to-Talk ID (Encode)
 Identify outgoing calls
- Radio Check (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

To keep things running efficiently, safely, and productively, you need to stay connected.

That's why so much quality and performance is built into the Professional Series PM1500 two-way mobile radio from Motorola. Long-range communications are robust with the mobile radio that packs 110 watts of power. The rugged housing and standard external speaker of the PM1500 make it the dependable choice in tough, loud environments. You'll appreciate the user-friendly design of the controls, backlit alphanumeric display and programmable buttons for easy access to favorite features.

The PM1500 puts quality Motorola technology to work helping public safety, utility, transportation and construction users with strong, reliable communications – even over long distances.

Linking Communities with Project 25 (P25)

With a single software upgrade, the PM1500 becomes P25 interoperable. This vital feature gives you the ability to interact with other networks in times of crisis.