

PM1200™

Professional Series Two-Way Mobile Radio



250 Channels

Large Channel and Volume Knobs, On/Off Push Button

Multicolored LED Indicators

Transmit Indicator LED and Channel Busy Indicator LED

4 Programmable Buttons

Easy access to favorite features. Programmable buttons allow you to assign up to 8 of 21 selectable features

Emergency Microphone

Backlit 8-Character Alphanumeric Display

User friendly icons allow you to easily view status. Display for viewing of channel names and Caller ID

Internal Speaker

Allows for clear, crisp communication in loud environments

Default Status Check

Blinks orange when volume and channel settings are different than the default settings

Group Select Keys

Changes operating group

Programmable Features

- **Emergency**
- **Talkaround**
Unit-to-unit communication, bypassing the repeater
- **Scan**
Monitors the scan list channels
- **Dual Watch**
Channel and priority channel are scanned
- **Monitor**
Receive all conventional transmissions overriding receive PL signaling
- **Home Channel**
Changes the channel to a pre-programmed "home channel"

Additional Features

Send and receive information in a variety of ways:

Quik-Call II™

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

DTMF Signaling

- **Push-to-Talk ID (Encode)**
Identify outgoing calls

PM1200 Standard Package

- Radio Transceiver
- Palm Microphone
- Remote Control Head
- Mounting Hardware
(for radio and control head)
- 20 Ft. Power Cable
- 20 Ft. Remote Mount Cable
- Programmable Button Labels
- User Guide CD
- 2-Year Standard Warranty

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

Keeping communities safe and keeping vital services flowing is a job where there's no room for error. But today's budgets don't always have room for unlimited spending. So Motorola designed the PM1200™ Professional Series two-way mobile radio to provide government and commercial institutions with maximum value.

The high power, low band PM1200 offers local public safety, public works, utilities and transportation professionals a full range of easy-to-use features, with all the quality and reliability users expect from Motorola. Count on this dependable performer to provide clear, cost effective communication that meets the needs of hard-working professionals.

SPECIFICATION SHEET

PM1200™ PROFESSIONAL SERIES
Two-Way Mobile Radio
Typical Specifications

GENERAL SPECIFICATIONS			ENVIRONMENTAL	
	Low Band A	Low Band B	Storage Temperature	-40° to +85° C
Frequency Range	29.7-37 MHz (A)	37-50 MHz (B)	International Protection	IP54 Cat. 2*
Number of Channels	250 Channels	250 Channels	*Control Head Only.	
Channel Bandwidth (PLL Steps)	5/6.25 kHz	5/6.25 kHz		
Power Supply Voltage	13.4 V DC ± 15%	13.4 V DC ± 15%		
Dimensions (H x W x D)				
Control Head	3.11 x 7.78 x 3.31 inches (79 x 197.60 x 84.07mm)			
High Power Radio Transceiver	3.15 x 7.56 x 12.07 inches (80 x 192 x 306.50 mm)			
Weight				
Control Head	1.28 lb (0.58 kg)			
High Power Radio Transceiver	9.94 lb (4.51 kg)			
Current Consumption				
TX	22 A		22 A	
RX	2.2 A		2.2 A	
Standby	0.6 A		0.6 A	
Operating Temperature Range	-22° F to +140° F (-30° C to +60° C)		-22° F to +140° F (-30° C to +60° C)	
Frequency Stability	Less than ± 10 ppm		Less than ± 10 ppm	
RF Input-Output Impedance	50 Ω		50 Ω	
Audio Output Power	10 W @ 4 Ω		10 W @ 4 Ω	

RECEIVER	
Measurements per EIA Standard TIA/EIA-603	
Low Band A and B	
Circuit Type	Double-conversion Super-heterodyne
Sensitivity (EIA 12dB SINAD)	0.25 µV
Adjacent Channel Selectivity	75 dB
Intermodulation	75 dB
Spurious and Image Rejection	90 dB
Audio Output	10 W @ 4 Ω

TRANSMITTER	
Measurements per EIA Standard TIA/EIA-603	
Low Band A and B	
Power Output	120 W / 50 W
Maximum Frequency Separation	5 kHz
Modulation	16K0F3E
Conducted Spurious Emissions	80 dB Below Carrier
Audio Distortion (@ 1 kHz)	< 5% @ 1 kHz
Microphone Impedance	1.6K Ω

SIGNALLING BOARDS	
Part Number	Description
HKLN4345	PM1200™ Interface Board for Option Boards
HKLN4346	PM1200™ Quik-Call™ II Decoder Option Board

FCC TYPE ACCEPTANCE ID		
TRANSMITTER POWER		
Band	29.7-37 MHz (A)	37-50 MHz (B)
Output	50-120 W	50-120 W
Number	AZ492FT1629	AZ492FT1630
Model	AAM32BMD9W5AN	AAM32CMD9W5AN

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 Storage	501.1	I	501.2	I/A1	501.3	I/A1	501.4	I/Hot
High Temperature Operational	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	I
Rain Blowing*	506.1	I	506.2	I	506.3	I	506.4	I
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	I	510.2	I	510.3	I	510.4	I
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	I/24
Vibration Loose Cargo			514.3	II/3	514.4	II/3	514.5	II/5
Shock Functional	516.2	I	516.3	I	516.4	I	516.5	I
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

*Control Head Only.

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.

Magnum Electronics, Inc

927 Horsepond Road
Dover, DE 19901
302-734-9250
302-734-1056 Fax
main@magnumelectronics.com
www.magnumelectronics.com



MOTOROLA and the Stylized M Logo are registered in the U.S. Patent and Trademark Office. All other product or service names are the property of their registered owners. © Motorola, Inc. 2009.