



PM1200™ Professional Series

Two-Way Mobile Radio and Accessories



*Low Band, High Power and Maximum Value
Reliable Performance in Tough Conditions
Clear Communication in Noisy Environments*



PM1200™ Professional Series

Two-Way Mobile Radio

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 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.

PM1200 Standard Package

- Radio Transceiver
- Palm Microphone
- Remote Control Head
- Mounting Hardware
(For Radio and Control Head)
- Power Cable, 20 Feet
- Remote Mount Cable, 20 Feet
- User Guide CD
- Programmable Button Labels
- 2-Year Standard Warranty

Standard Features

250 Channels

Multicolored LED Indicators

Includes Transmit and Channel Busy LED

Large Channel and Volume Knobs, On/Off Push Button

Backlit 8-Character Alphanumeric Display

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

Emergency Microphone

Default Status Check

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

Group Select Keys

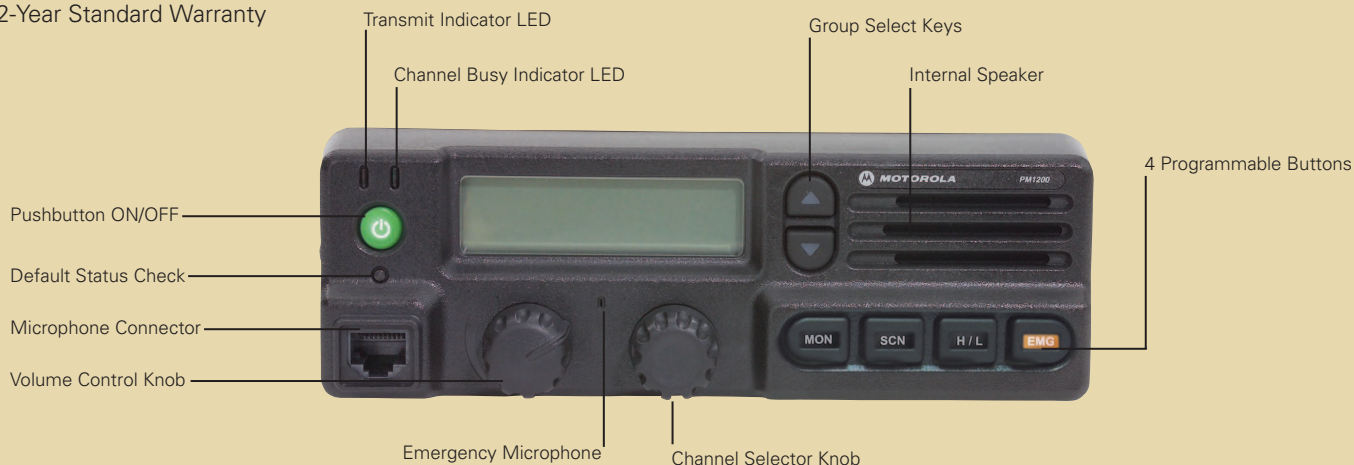
Changes operating group

4 Programmable Buttons

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

Internal Speaker

Allows for clear, crisp communication in loud environments



All the quality, flexibility and performance options that growing communities need.

PM1200 Programmable Features

Choose up to 8. Top features include:

Emergency

Alerts dispatcher in urgent situations

Repeater Talkaround

Unit-to-unit communication, bypassing the repeater

Channel Scan

Monitors the scan list channels for any activity

Dual Watch

Similar to scan feature except the current channel and priority channel are scanned for activity

Monitor

Received all conventional transmissions overriding receive PL signaling

Home Channel

Changes the channel to a pre-programmed "Home Channel"

Additional PM1200 Features allow you to send and receive information in a variety of ways with Quick-Call II™ and DTMF Signaling

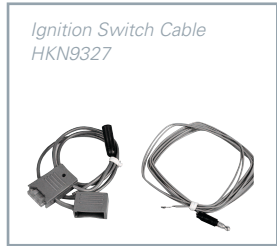
Quick-Call II™

- **Selective Call (Decode)** – Receive calls from a specific group or individual
- **Call Alert (Decode)** – Receive alerts of incoming calls

DTMF Signaling

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

PM1200 Accessories: Customizing one radio or an entire fleet



Microphones

To manage menus and converse conveniently

Speakers

Ideal for extremely noisy environments

Power Cables

Providing power to suit your needs

Switches

Footswitches improve operating convenience and safety

Hands-Free

Carry on conversations in safety and comfort

Alarm Cables

External alarm cable for added security

Antennas

Optimize range and quality for different configurations

Control Station

Add a desk top microphone for easier transmission

For a complete listing of accessories and availability contact us today.

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			
RF Input-Output Impedance	50			
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)	0.35 µV
Adjacent Channel Selectivity	70 dB
Intermodulation	70 dB
Spurious and Image Rejection	60 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)	< 10% @ 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

**Subject to availability.

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.

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