

GP2100
Alpha Series
Portable Radio



GP2100

Modern, Efficient with Exceptional Value



Key Features

- 99 Channels
- User Programmable Features
- Long Battery Life
- Compact, lightweight & ergonomically-designed
- 12.5/25 kHz Channel Spacing

Operational Efficiency at Minimal Cost

The Motorola's GP2100 is sleek and compact for portability, yet packed with advanced features for added value.

Equipped with a Handsfree Earpiece, the new GP2100 offers convenience, audio clarity and privacy to users in diverse applications, such as manufacturing, hotels, retail and other service industries.

Easy-To-Use Features That Boost Productivity

99 Channels
Allows the organising of work teams into talk groups, increasing the flexibility of your radio. The channel button is located in the front of the radio, providing quick and easy access to the different talk groups.

User Programmable Features

Large front panel buttons facilitate easy programming of the several radio functions. Customise and reset your radio profiles while on the go without the need for additional equipment.

Long Battery Life

Allows you to enjoy up to 8 hours of talktime without the need to charge or carry additional batteries during a typical 8-hour work shift.



Radio shown with PMLN4442



Compact, Lightweight and Ergonomically Designed

Designed to be held comfortably, the channel knob is replaced by an easy-to-use navigation button that allows you to quickly scroll through the user channels.



Private Lines

Set up talkgroups/users with unique Private Lines / Digital Private Lines (DPL) to prevent unwanted conversations on the same frequency. The GP2100 has 3 PLs more than the industry standard.



Battery Saver Feature

With 3 power levels - Economy Low, Low and High, the GP2100 allows flexible user control over the battery operational efficiency. Using Economy Low when communicating in close proximity allows users to save on battery use extending talktime by up to 6 hours.



User-friendly Navigation

With two navigation buttons, users can simply scroll through the radio's menu. The four programmable buttons allow you to assign up to eight commonly-used features, providing even greater convenience at your fingertips.



8-digit Alpha-Numeric & Iconic Display

Iconic battery and signal strength indicators enable you to determine the radio's operating performance at a glance. Text and number displays such as channel alias and frequency number, provide critical information for your operation.



Additional GP2100 Features

- Prime Channel
- Priority Scan
- Talk Around
- 3 Scan Lists (each with priority channel)
- Busy Channel Lockout
- Backlight Setting (auto/toggle)
- Nuisance Channel Delete
- Receive-only Channel
- Low Battery Alert
- Adjustable Squelch Level
- Channel Alias
- Time-Out Timer (from 0 to 10 minutes)
- 12.5/25 kHz Channel Spacing
- Coded Squelch

Other Accessories

PMLN4468
PMLN4469
Holster Case



4285820Z01
Light Duty
Shoulder Strap

PMLN4444
Boom Mic with Earset
PTT/VOX switch **



PMLN4442A
Earbud with In-line
Mic/PPT/VOX Switch **

** The PTT/VOX switch functionality depends on radio software capability.

General	UHF	
* Frequency Range	435 - 480 MHz	
Memory Channels	99	
Operating Temperature Range	-30° to +60° C (Radio) -20° to +60° C (with NiMH battery)	
Dimensions	H x W x D	
† Standard Capacity NiMH	115.5mm x 56mm x 35mm (38mm top)	
Weight	350g	
† Standard Capacity NiMH	350g	
Average Battery Life	High Power	Low Power
@ 5 - 5 - 90 Duty Cycle	4W	1W
† Standard Capacity NiMH	8 hours	11 hours
Sealing	Passes rain testing per IPX4 (EN60529:1991)	
Shock & Vibration	Diecast with impact resistant polycarbonate housing, passes EIA RS - 316B	
Dust & Humidity	Weather resistant housing passes EIA RS - 316B	
Display digits with backlight	8	
Transmitter	UHF	
RF Output	High Power	Low Power
	4W	1W
Channel Spacing	12.5 / 25 kHz	
Frequency Stability	± 2.5ppm	
Modulation Limiting	+ / - 5kHz (25kHz) ; + / - 2.5kHz (12.5 kHz)	
Audio Response (from 6dB/oct. Pre-Emphasis, 300 to 3000Hz)	+1, -3dB	
Audio Distortion @ 1kHz tone, 60% rated max dev.	<5%	
FM Hum & Noise	40dB	
Receiver	UHF	
Channel Spacing	25 kHz	12.5 kHz
Sensitivity (12dB SINAD)	0.25µV	
Audio Distortion	<5%	
Hum and Noise	40dB	
Audio Output @ <5% Distortion (7.5V / room temperature)	500mW into 24Ω	

† Standard Capacity NiMH (Ni-cap) battery.
* Availability subject to country's law and regulations.
All specifications shown are typical and subject to change without notice.



Portable Military Standards 810, C D and E		
Applicable MIL-STD	Methods	Procedures
High Temperature	501.3	1
Low Temperature	502.3	1 & 2
Temperature Shock	503.3	1
Solar Radiation	505.3	1
Humidity	507.3	3
Salt Fog	509.3	1
Dust	510.3	1
Vibration	514.4	1



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