

**PROFESSIONAL SERIES  
PORTABLE TWO-WAY RADIO**

*MOTOROLA GP338 XLS*

# Performance and Prestige

Power and versatility are yours with the advanced Motorola GP338 XLS radio. This full-keypad portable radio is remarkably compact and lightweight—perfect for professionals on the go. This Professional Series radio has many outstanding features that are designed to meet virtually every communication need. Six programmable buttons allow you to customise your radio's operations to suit your requirements. A full range of signaling capabilities lets you control transmissions with extraordinary precision and dual mode operation capability allows users to switch between LTR® and conventional modes at a touch of a button. User-friendly icons on the large 14-character alphanumeric display provide clear, understandable information at a glance. The Motorola GP338 XLS radio offers the superior communication capabilities you need to keep productivity and efficiency at their highest.



## KEY FEATURES AND BENEFITS

### 160 CONVENTIONAL CHANNELS OR 15 TRUNKED ZONES WITH 16 TALKGROUPS EACH

Provides users with multi-channels to organise different work groups to meet their different communication needs.

### 14-CHARACTER ALPHANUMERIC DISPLAY

User-friendly icons provide clear, easy-to-read indicators, including:

- **Zone, Talkgroup, and Channel Indicator**  
Identifies alias for trunked zone, talkgroup, and conventional channels
- **Battery Gauge**  
Indicates battery strength levels for more effective power management
- **Radio Signal Strength Indicator (RSSI)**  
Displays radio's signal and strength levels at a glance

### 6 PROGRAMMABLE BUTTONS

Immediate access to your favourite features

- **Programmable Emergency Button**  
Dedicated button that when activated sounds alarm or alerts dispatcher in emergency situations
- **Adjustable Power Levels**  
Help optimise coverage and battery life
- **Dual Priority Channel Scan**  
Program radio to frequently scan transmissions on your two most important channels, to help ensure you don't miss critical calls
- **Monitor/Permanent Monitor**  
Quickly and easily monitor a specific channel
- **Repeater Talkaround**  
Unit-to-unit communication allows radio to bypass the repeater when necessary, to help ensure continuous radio contact
- **Home Channel Revert**  
Automatically accesses a preferred channel

### CONTROL BUTTONS

Easy to manage menu, navigation, and exit functions

### TELEPHONE INTERCONNECT CAPABILITY

Place and receive phone calls with the radio

### QUICK CALL II™ AND MDC1200 SIGNALING

Send and receive information in a variety of ways, including:

- **Push-to-Talk ID (Encode/Decode)**  
Identify your outgoing calls and incoming callers
- **Selective Call (Encode/Decode)**  
Send and receive a call from a specific group or individual
- **Call Alert (Encode/Decode)**  
Inform unavailable users that you're trying to reach them, and receive alerts of incoming calls when you're a short distance away from your radio

- **Radio Check (Encode/Decode)**

Check whether another user's radio is activated, and let others check your radio status

- **Emergency (Encode)**

Sounds an alarm or alerts dispatcher in urgent situations

- **Selective Radio Inhibit (Decode)**

Allows system owner to disable stolen or missing radios

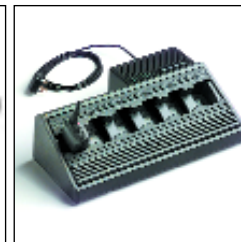
### ACCESSORISE AND ENHANCE YOUR RADIO'S CAPABILITIES

A comprehensive range of accessories is available so that the GP338 XLS can be customised to suit your unique applications. Adding the proper headsets, microphones, batteries, chargers or carry cases can enhance the productivity of the two-way radio users.

Motorola accessories are built with the highest quality standards and are specially engineered to ensure maximum performance for your radio, no matter what profession you're in.



Rapid Rate Desktop Charger



Multi-Unit Rapid Charger



Soft Leather Case with Swivel Clip



Slim & Hicap Lilon Batteries



FM NiMH Battery



## GP338 XLS SPECIFICATIONS

### GENERAL SPECIFICATION

* Frequency (MHz)	136 - 174 / 403 - 470 / 450 - 527
Channel Capacity	Trunking Zone: 15, Trunking Talkgroups: 16, Conventional Channels: 160
Power Supply	Provided through rechargeable battery - 7.5V
Dimensions (Radio footprint height excluding knobs)	Height x Width x Depth
With Lilon (Slim) Battery:	101.5mm x 55.5mm x 33.0mm
With Lilon (Hicap) Battery:	101.5mm x 55.5mm x 38.0mm
Weight	
With Lilon (Slim) Battery:	265g
With Lilon (Hicap) Battery:	285g
Average Battery Life @ 5/5/90 Cycle	
With Lilon (Slim) Battery:	10 hours @ Low Power, 7 hours @ High Power
With Lilon (Hicap) Battery:	14 hours @ Low Power, 10 hours @ High Power
Sealing	Withstands rain testing per MIL-STD 810 C/D/E and IP54
Shock and Vibration	Protection provided via impact resistant housing exceeding MIL-STD 810 C/D/E and TIA/EIA 603
Dust and Humidity	Protection provided via environment resistant housing exceeding MIL-STD 810 C/D/E and TIA/EIA 603

### TRANSMITTER SPECIFICATION

* Frequency (MHz)	136-174 / 403-470 / 450-527
Frequency Separation	Full bandsplit
Channel Spacing	12.5/20/25kHz
Freq Stability (-30°C to 60°C, +25°C Ref.)	2.5ppm
Power Output	5W (136-174 MHz), 4W (403-470, 450 - 527 MHz)
Modulation Limiting	±2.5 @ 12.5kHz, ±4.0 @ 20kHz, ±5.0 @ 25kHz
FM Hum & Noise	-40dB
Conducted/Radiated Emission	-36dBm < 1GHz / -30dBm > 1GHz
Modulation FCC Type	12.5kHz 11K0F3E , 25kHz 16K0F3E
Audio Response (from 6 dB/octave pre-emphasis 300-3000Hz)	+1 to -3dB
Audio Distortion	3%

### RECEIVER SPECIFICATION

* Frequency (MHz)	136-174 / 403-470 / 450-527
Frequency Separation	Full bandsplit
Sensitivity (12dB SINAD) EIA	.25µV
Intermodulation (EIA)	70dB
Adjacent Channel Selectivity	60dB @ 12.5kHz, 70dB @ 25kHz
Spurious Rejection	70dB
Rated Audio	500mW
Audio Distortion	3%
Hum & Noise	-40dB
Audio Response (300-3000Hz)	+1 to -3dB
Conducted Spurious Emission	-57dBm < 1GHz, -47dBm > 1GHz, FCC Part 15

\* Availability subject to country law and regulations. Specifications subject to change without notice. All specifications shown are typical. Radios meet applicable regulatory requirements.

#### Portable Military Standards 810, C D and E

	810 C		810 D		810 E	
	Methods	Procedures	Methods	Procedures	Methods	Procedures
Low Pressure	500.1	1	500.2	2	500.3	2
High Temp	501.1	1, 2	501.2	1, 2	501.3	1, 2
Low Temp	502.1	1	502.2	1, 2	502.3	1, 2
Temp. Shock	503.1	1	503.2	1	503.3	1
Solar Radiation	505.1	1	505.2	1	505.3	1
Rain	506.1	1, 2	506.2	1, 2	506.3	1, 2
Humidity	507.1	2	507.2	2, 3	507.3	2, 3
Salt Fog	509.1	1	509.2	1	509.3	1
Dust	510.1	1	510.2	1	510.3	1
Vibration	514.2	8, 10	514.3	1	514.4	1
Shock	516.2	1, 2, 5	516.3	1, 4	516.4	1, 4



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For more information, please contact:

#### One-Year Warranty

Each Motorola radio is backed by a one-year warranty on radio parts and labour.



#### Accelerated Life Testing

Motorola's Accelerated Life Testing simulates five years of hard use in real life, EIA RS-316B in Shock, Vibration, Dust, Humidity, IP54 for Sealing.



#### MIL-STD 810C, D and E

Stamp of approval from the U.S. Military for use in rough environments.



#### ISO 9001 Standard

Compliance with ISO 9001 Standard - an international quality system assurance on design, development, production, installation and servicing of a product.

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