

**THE GP338 PROFESSIONAL RADIO :**

*A Versatile Radio*

The GP338 is essential for growing organisations because of its unique versatility. When necessary, the radio can easily be programmed in the field to add or delete features. So, whether it's the harsh environment of a construction site or the elegance of an exclusive hotel, the radio of choice is the GP338. It's the radio that grows with you.

**FLEXIBLE WITH GOOD AUDIO QUALITY — PERFORMS UNDER ANY CONDITION:**

Ideal when you need:

- To communicate frequently with multiple work groups.
- A rugged radio to perform under harsh outdoor conditions.
- To communicate in a high-noise environment.
- Constant up-to-the-minute information.

**GP338 KEY FEATURES AND BENEFITS**

**X-PAND™ AUDIO TECHNOLOGY:**

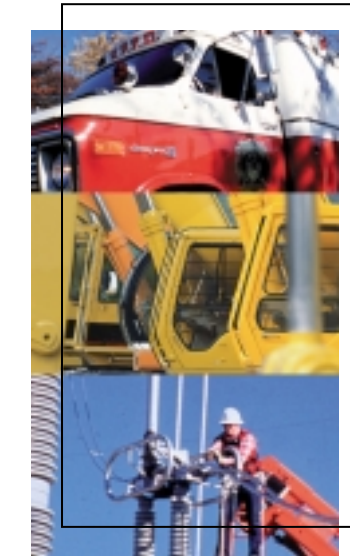
Motorola's special voice compression and expansion technology called X-PAND™ enables crisper, clearer and stronger audio quality, allowing you to keep communicating, even in noisy environments.

**BATTERY STRENGTH INDICATOR:**

Easy-to-read on-screen LCD display indicator alerting users on battery strength.

**NAME & TONE TAGGING:**

Capability to assign 8 different ringing tones and visual caller ID to 8 specific users/talkgroups making audio and visual caller identification to these 8 groups possible.



**GP338  
PORTABLE RADIO  
THE POWER TOOL FOR  
CONTACT & CONTROL**

**KEY ACCESSORIES:**



Head Set



Multi-unit Charger



DTMF Microphone



Carry Case



Remote Speaker  
Microphone

**One-Year Warranty**

Each Motorola radio is backed by a 1 year warranty on radio parts and labour, battery, charger, antenna and belt clip.



**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.

For more information, please contact:



<http://www.motorola.com/cgiss/AP>

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**RECEIVED SIGNAL STRENGTH INDICATOR:**

A very user-friendly feature to display radio signal strength in the vicinity where you operate.

**CLOCK AND REMINDER ALARM:**

Set time stamp on incoming recorded messages; or, set the alarm to remind user of important appointments.

**14-CHARACTER ALPHA NUMERIC DOT MATRIX DISPLAY:**

Clear and easy to read text display.

**EMERGENCY SIREN:**

Easy-to-access, one-touch button with piercing alarm to seek help in critical situations.

**128 CHANNELS:**

Maximum of 128 channels for more efficient talk groups.

**MENU KEYS:**

Select functions through easy to navigate menu keys.

**FIELD RETROFIT OPTION BOARDS:**

Easy to install, affordable add-on functionality whenever you need it. Option Boards are available for:

- i) DTMF Decode for in-coming calls capability.
- ii) Voice Storage for recording and playing back voice messages.
- iii) Man-Down Board



### BATTERY OPTIONS:

Flexible choice of batteries:

- NiCD Battery
- High Capacity NiMH Batteries
- Lithium Ion Battery
- FM NiCD & NiMH Batteries

### ENHANCED SIGNALLING FEATURES:

The GP338 two-way radio comes in three choices of Signalling protocol:

- I) MDC1200:
  - PTT-ID
  - Call Alert
  - Voice Selective Call
  - Radio Check
  - Selective Radio Inhibit
  - Emergency
- II) Quik Call II
  - Call Alert
  - Voice Selective Call
- III) Dual Tone Multiple Frequency (DTMF) Signalling Encode

### OTHER GP338 FEATURES:

- Channel Scan
- Time-Out-Timer
- PL / DPL
- Busy Channel Lockout

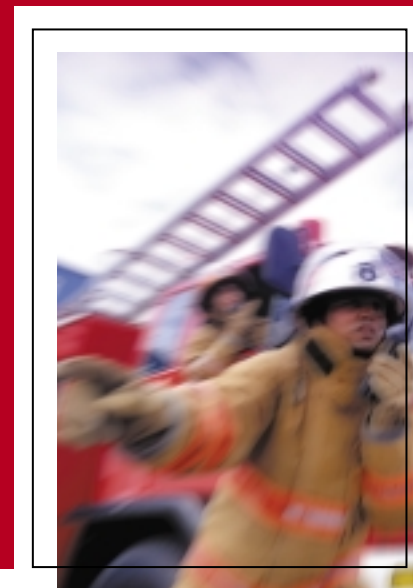
### ENHANCE YOUR RADIO'S CAPABILITIES

A comprehensive range of accessories is available so that the radios can be customised to suit your needs. Adding the proper headsets, microphones, batteries, chargers or carry cases can enhance the productivity of the people who use two-way radios. Motorola accessories are built with the highest quality standards and are specially engineered to assure maximum performance of your radio, no matter what profession you are in.

### GP338 FEATURES :

#### PRODUCT SPECIFICATIONS

GENERAL					
*Frequency: (MHz)	136-174 / 330-400 / 403-470 / 450-527				
Channel Capacity:	128 Channels				
Power Supply:	Provided through rechargeable battery - 7.5V				
DIMENSIONS:	H	x	W	x	D
With Standard High Capacity NiMH Battery:	137mm	x	57.5mm	x	37.5mm
With Ultra High Capacity NiMH Battery:	137mm	x	57.5mm	x	40.0mm
With NiCD Battery:	137mm	x	57.5mm	x	40.0mm
With Lilon Battery:	137mm	x	57.5mm	x	33.0mm
	(Height measured excluding knobs)				
WEIGHT:					
With Standard High Capacity NiMH Battery:	428 gm				
With Ultra High Capacity NiMH Battery:	508 gm				
With NiCD Battery:	458 gm				
With Lilon Battery:	358 gm				
AVERAGE BATTERY LIFE @ 5/5/90 CYCLE	Low Power	High Power			
With Standard High Capacity NiMH Battery:	11 hours	8 hours			
With Ultra High Capacity NiMH Battery:	14 hours	11 hours			
With NiCD Battery:	12 hours	9 hours			
With Lilon Battery:	11 hours	8 hours			
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/EIA603				
TRANSMITTER SPECIFICATION					
*Frequency (MHz)	136-174 / 330-400 / 403-470 / 450-527				
Frequency separation	Full bandsplit				
Channel spacing	12.5/20/25kHz				
Freq Stability:(-30°C to 60°C,+25°C Ref.)	+/- 0.00025%				
Power	5W (VHF)	4W (UHF)			
Modulation limiting	±2.5 @ 12.5kHz, ±4.0 @ 20kHz, ±5.0 @ 25kHz				
FM Hum & Noise	-40dB				
Conducted/Radiated Emission	-36 dBm < 1 GHz / -30dBm > 1 GHz				
Modulation FCC Type	12.5 kHz 11K0 F3E / 25 kHz 16K0F3E				
Audio Response (from 6 dB/octave pre-emphasis 300-300Hz)	1 to -3dB				
Audio Distortion	3%				
RECEIVER SPECIFICATION					
Frequency	136-174 / 330-400 / 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	500 mW				
Audio Distortion	3%				



Hum and Noise	-45dB @ 12.5kHz, -50dB @ 25kHz
Audio Response (300-3000Hz)	+1 to -3dB
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, & E

Applicable MIL-STD	810C		810D		810E	
	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