

### Enhance Your Radios' 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 carrying cases can enhance your operational productivity. Motorola's accessories are built with the highest quality standards and are specially engineered to ensure maximum performance of your radio, no matter what profession you're in.

#### Battery & Charger



Slim & Hicap Lilon Batteries  
JMN4023/4024



FM Batteries  
JMN4025



Single Rapid Charger  
PMTN4025



Multi-Unit Rapid Charger  
PMTN4028

#### Audio Accessories



Remote Speaker Mic  
JMN4067



Ear mic VOX/PTT Interface Module with Earmic BDN6677  
JMN4064



Lightweight Headset with Boom Mic  
PMLN4519



Accessory Adaptor  
PMLN4455

#### Carrying Accessories



Soft Leather Case with Swivel Clip  
\*\* PMLN4421



Hard Leather Case with Swivel Clip  
\*\* PMLN4471



Nylon Case with Swivel Clip  
\*\* PMLN4470

#### Service Aids



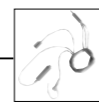
Programming Cable  
JMN4123



Earpiece/Earset  
NMN6246  
BDN6780



2-wire surveillance  
BDN6667 (Beige)  
BDN6729 (Black)



3-wire surveillance  
BDN6668 (Beige)  
BDN6730 (Black)



PMLN4455 to be used with 3.5mm threaded range of Audio Accessories.

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

Applicable MIL-STD	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

#### GP328 Plus & GP338 Plus Specifications

GENERAL SPECIFICATION	VHF / UHF				
*Frequency (MHz)	136 - 174 / 330 - 400 / 403 - 470 / 450 - 527				
Channel Capacity	GP328 Plus is 16 Channels		GP338 Plus is 128 Channels		
Power Supply	Provided through rechargeable battery - 7.5V				
Dimensions (Radio footprint height excluding knobs)	H	x	W	x	D
With Lilon (Slim) Battery:	101.5 mm	x	55.5 mm	x	33 mm
With Lilon (Hicap) Battery:	101.5 mm	x	55.5 mm	x	38 mm
Weight	GP328 Plus		GP338 Plus		
With Lilon (Slim) Battery:	250 gm		265 gm		
With Lilon (Hicap) Battery:	270 gm		285 gm		
Average Battery Life @ 5/5/90 Cycle	Low Power		High Power		
With Lilon (Slim) Battery:	10 hours		7 hours		
With Lilon (Hicap) Battery:	14 hours		10 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

TRANSMITTER SPECIFICATION	VHF / UHF
*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.)	2.5 ppm
Power Output	5W (VHF) 4W (UHF)
Modulation Limiting	±2.5 @ 12.5kHz, ±4.0 @ 20kHz, ±5.0 @ 25kHz
FM Hum & Noise	-40 dB
Conducted/Radiated Emission	-36 dBm < 1 GHz / -30 dBm > 1 GHz
Modulation FCC Type	12.5 kHz 11K0F3E, 25 kHz 16K0F3E
Audio Response (from 6 dB/octave pre-emphasis 300-3000Hz)	+1 to -3 dB
Audio Distortion	3%

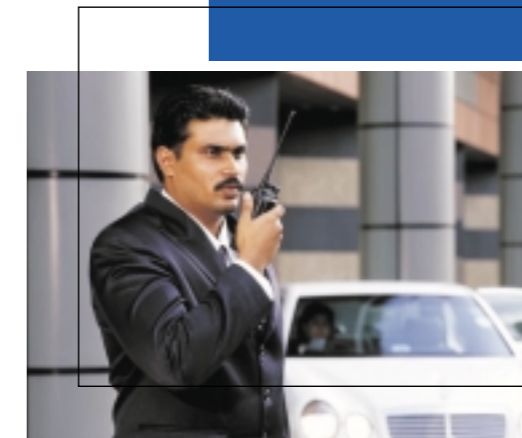
#### RECEIVER SPECIFICATION

RECEIVER SPECIFICATION	VHF / UHF
*Frequency (MHz)	136-174 / 330-400 / 403-470 / 450-527
Frequency Separation	Full bandsplit
Sensitivity (12dB SINAD) EIA	25µV
Intermodulation (EIA)	70 dB
Adjacent Channel Selectivity	60 dB @ 12.5kHz, 70 dB @ 25 kHz
Spurious Rejection	70 dB
Rated Audio	500 mW
Audio Distortion	3%
Hum & Noise	-40 dB
Audio Response (300-3000Hz)	+1 to -3 dB
Conducted Spurious Emission	-57 dBm < 1GHz, -47 dBm > 1GHz, FCC Part 15

\* Availability subject to country law and regulations.  
Radios meet applicable regulatory requirements.  
All specifications shown are subject to change without notice. Specifications are not representative of all radios and may vary in different radios.



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Motorola's Smallest Professional Radio

GP328 Plus

GP338 Plus



GP328 PLUS / 338 PLUS

Compact and rugged, the GP328 Plus and GP338 Plus are ideal for professionals on the go.



**GP328 Plus & GP338 Plus Common Key Features and Benefits**

**Advanced Audio Technology**

Motorola's special voice compression and low level expansion technology enable crisper, clearer and stronger audio quality, allowing you to keep communicating even in a noisy environment.

**Emergency Alarm/Siren**

Meeting the need for urgent communication in critical situations, the easy-to-use, one touch emergency button emits a piercing alarm, providing users with instant help alerts.

**Switchable RF Power Levels**

By just pressing one button, users can switch to a low power when communicating within limited range coverage or switch to a high power level when further distance is required. A high transmit power optimizes range coverage while a low transmit power conserves battery consumption.

**Repeater/Talkaround Enable/Disable**

Users have the freedom to communicate through a repeater for wide area coverage, or bypass a repeater and talk directly to another radio if the coverage is within the range or when the repeater fails.

**Tight/Normal Squelch**

Users have the flexibility to protect their communication by selecting a tight squelch to filter out the interference of unwanted weak signals; or by switching to normal squelch to increase coverage.

**GP328 Plus - Compact & Easy to Use**

The compact GP328 Plus offers a palm-sized solution for professionals on the go who want to stay in touch all the time. Equipped with user friendly features and intuitive programmable buttons for easy navigation, the GP328 Plus can enhance your productivity and streamline your radio operations.

**16 channels**

Provides users with a maximum of 16 channels to organise different work groups to meet different communication needs.

**LED Battery Gauge**

The tri-colour LED battery gauge at the top of the radio alerts users to recharge the battery when the battery level is low.

**Tone Tagging**

Allows 8 different ringing tones to be assigned to 8 specific users/talkgroups- providing audio caller identification to these groups.

**GP338 Plus - Compact & Versatile**

The GP338 Plus offers a versatile two-way solution for those who require additional features to meet their expanding communication needs. No matter where it is used, in the rugged environment of the surveillance industry or the posh elegance of a hotel, the GP338 Plus is the radio of choice for any growing organisation.

**14-Character Alpha Numeric Dot Matrix display**

The 14-character alpha numeric display allows immediate communication of vital information such as PTT ID, radio strength indicator and signal strength indicator. In addition, the user-friendly icons make the information easy to read and understand. The keypad and display illuminations also provide the needed visibility to operate your radio in the dark.

**Received Signal Strength Indicator**

An easy to read on screen display indicator notifies users of signal strength in their vicinity.

**Name & Tone Tagging**

The capability of assigning 8 different ringing tones and visual caller IDs to 8 specific users/talkgroups enhances audio and visual caller identification for these groups.

**Battery Strength Indicator**

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

**128 Channels**

Provides up to a maximum of 128 channels-allowing greater flexibility in organising different work groups.



GP328 Plus

GP338 Plus

**GP328 Plus & GP338 Plus Compact, Light and Rugged**



Compact, Easy to Use & Versatile

**Compact, Light & Rugged**

Instant communication is important to many operations, as is the ability to be mobile and move freely without being weighed down by your communication tools.

Motorola's newest professional two-way radio packs a range of cutting edge innovations into one compact and lightweight radio designed to continue the Motorola heritage of offering the very best that portable radios can offer.

Introducing Motorola GP328 Plus non-keypad and GP338 Plus keypad two-way radios - the smallest in Motorola's Professional Series. They are compact, light and fit easily into the palm of your hand.

**Users**

**Public Safety:**

The GP328 Plus and GP338 Plus are compact enough to fit neatly underneath a jacket - most suited for any covert operation. They are light and can be worn comfortably on the waist enabling hands-free mobility. And, for those in control during emergency rescue operations like air crashes, bombings and riots, the GP328 Plus and GP338 Plus are instant command and control tools with clear audio quality for you to manage a crisis efficiently.

**Menu Keys**

The easy to navigate menu keys allow users to select the relevant functionalities at their fingertips.

**Dual Tone Frequency (DTMF) Encode**

Allows users easy access to local landline telephone networks or to make a private calls to other radio system users within one radio.

**Enhanced Signalling Features for GP338 Plus**

The GP338 Plus keypad supports the following signalling system:

**MDC1200 Signalling Protocol:**

**PTT-ID**

Every time the PTT button is pressed, it enables the transmission of the caller's ID and the decoding of the sender's ID.

**Status/Messages**

This feature enables you to replace frequently used voice calls with status messages, saving you valuable communication time.

**Call Alert**

If your call to a radio has no response, the radio will emit an alert tone until the other party takes action.

**Voice Selective Call**

The radio users receive a unique individual or group voice message with an alert to indicate that it is a selective call.

**Dual Priority Scanning**

Allows activity on different channels to be monitored. Any incoming calls will be automatically switched to another available channel so that the call can be received.



**Common Features**

- Advanced Audio Technology
- Emergency Alarm/Siren
- Switchable RF Power levels
- Repeater/Talkaround
- Tight/Normal Squelch
- LED Battery Gauge
- Tone Tagging

**Enhanced Signalling Features**

- PTT-ID
- Status/Messages
- Call Alert
- Voice Selective Call
- Dual Priority Scan

**Motorola: Reliability & Quality**

