



TWO-WAY RADIOS

## GM380: The Sophisticated Radio

The GM380 is for professionals who need to communicate using the highest levels of radio sophistication. A sophisticated communication tool with a user friendly interface, the GM380 helps to improve the efficiency and productivity of your mobile workforce.



As Dedicated As You Are

Professional Radio

### A wide array of features include:

- **Signalling**  
*The radio software encompasses Private Line™ and 5-tone selective signalling.*
- **Emergency Signalling**  
*Sends a help signal to a pre-defined person or group of people. The help signal can contain a pre-recorded voice message enabling your whereabouts or status to be determined immediately by the receiving person.*
- **Lone Worker**  
*Added security and safety for individuals who work remotely from their team. The radio enters emergency mode if the user does not respond to the warning signal.*
- **Voice Storage**  
*Built-in Voice Storage allows you to store and retrieve messages.*
- **User Information**  
*A 4 line 14-character alphanumeric display contains icons for programmed features, prompts for operational awareness and name decode for many incoming calls. Radio provides distinctive tones for different calls and functions.*
- **Ease of Use**  
*Simple menus and a full alphanumeric keypad make the full power of GM380 simple and intuitive to use.*
- **Status Calls**  
*Pre-defined text messages which allow the user to send meaningful messages without talking.*
- **DTMF**  
*Provided that your radio has access to a phone system, you can make phone calls from your radio. This feature may also be programmed to put your radio into permanent DTMF mode at the touch of a button.*
- **Public Address Mode**  
*This feature allows you to use your radio audio as a public address system simply by adding an external speaker and switch fitted and programmed by your dealer.*
- **Data Capable**  
*A modem can be fitted inside a special expansion head, or external to the radio.*

### Additional features include:

- Channel Scan
- Option Board Expandability\*
- Call Forward
- X-Pand™ Voice Compression and Low Level Expansion
- Voice Operated Transmit (VOX)
- External Alarm
- Memory Channel
- Car Radio Mute

\*Please check with your dealer for availability on specific option boards.

# GM380 Mobile Two-Way Radio Specifications

General		
Specification	VHF	UHF
Frequency Range:	136-174 MHz	403-470 MHz
Frequency Stability (-30°C to +60°C, 25°C Ref.)	±2.5 PPM	±2 PPM
Channel Capacity:	255	
Channel Spacing:	12.5/20/25 kHz	
Power Output:	1-25W	1-25W
Power Supply:	13.2Vdc (10.8 - 15.6 Vdc) negative vehicle ground	
Dimensions (L x W x H)	188mm x 185mm x 72mm (add 7mm for Volume Knob) (7.4" x 7.28" x 2.83" - add 0.27" for Volume Knob)	
Weight:		
Low power (1-25W)	1400 g (3.15 lbs)	
High power (40-60W)	2064 g (4.3lbs)	
Operating Temperature	-30 to 60°C	
Sealing	Passes rain testing to IP54	
Shock and Vibration	Meets MIL-STD 810-C,D&E and TIA/EIA 603	
Dust	Meets MIL-STD 810-C,D&E and TIA/EIA 603	
Humidity	Meets MIL-STD 810-C,D&E and TIA/EIA 603	

Mobile 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 Temperature	501.1	1,2	501.2	1,2	501.3	1,2
Low Temperature	502.1	2	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	2	506.2	2	506.3	2
Humidity	507.1	2	507.2	2,3	507.3	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	516.4	1

Transmitter		
Specification	VHF	UHF
Modulation Limiting:	±2.5 kHz @ 12.5 kHz ±4.0 kHz @ 20 kHz ±5.0 kHz @ 20/25 kHz	
FM Hum and Noise:	-40 dB @ 12.5 kHz -45 dB @ 20/25 kHz	
Conducted/Radiated Emissions:	-36 dBm < 1 GHz -30 dBm > 1 GHz	
Adjacent Channel Power	-60 dB @ 12.5, -70 dB @ 20/25 kHz	
Audio Response: (300 to 3000Hz)	+1, -3dB	
Audio Distortion: @ 1000 Hz, 60% Rated Maximum Deviation:	3% Typical	

Receiver		
Specification	VHF	UHF
Sensitivity (12dB SINAD): (ETS)	0.30µV (0.22 µV Typical)	
Intermodulation: (ETS)	>65 dB; >70 dB in Base Mode	
Adjacent Channel Selectivity: (ETS)	80dB @ 25 kHz 75dB @ 20 kHz 65dB @ 12.5 kHz	75 dB @ 25 kHz 70 dB @ 20 kHz 65 dB @ 12.5 kHz
Spurious Rejection: (ETS)	80 dB @ 20/25 kHz 75 dB @ 12.5 kHz	75 dB @ 20/25 kHz 70 dB @ 12.5 kHz
Rated Audio: (ETS)	3W Internal 7.5W & 13W External	
Audio Distortion @ Rated Audio:	3% Typical	
Hum and Noise:	-40 dB @ 12.5 kHz -45 dB @ 20/25 kHz	
Audio Response: (300 to 3000Hz)	+1, -3dB	
Conducted Spurious Emission per FCC Part 15:	-57 dBm < 1 GHz -47 dBm > 1 GHz	

\*Availability subject to individual country's law and regulations.

Specifications are subject to change without notice and are issued for guidance purposes only.

All specifications listed are typical. Radios meet applicable regulatory requirements.

Conforms to EC directive 89/336/EEC

Complies with ETS 300 113

Contact your local Authorised Motorola Dealer to find out more about how communicating with the Professional Radio series will benefit your organisation.



For exceptional performance, reliability and quality, Motorola Original accessories are the only options. For full details, please refer to the Professional Radio Series Accessories brochure.



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