

Two-Way Radio

**SMP418**  
CONVENTIONAL  
PORTABLE



**MOTOROLA**  
intelligence everywhere™

# SMP418



## **Key Attributes and Features**

### **Crystal Clear Audio**

Exceptional audio design for that added communications edge.

### **Extended Talktime**

19hr-talktime on low power and 14hr-talktime on high power for greater productivity.

### **Battery Latch Lock Feature**

Keeps the power source firmly fastened to the radio and allows continuous communication.

### **Quick and Easy Programming**

Faster programming with the user-friendly Microsoft Windows® based Customer Programming Software.

### **Ideal For:**

#### **Security**

Call for backup with just a simple, one-button operation of the **SMP418**. Faster response to emergency situations and intruders means a job well done.

#### **Hospitality**

Get compliments, not complaints with prompt, proactive levels of service, thanks to the handy **SMP418**. Slim, easy to carry around and hands free operation enables staff to meet guest's demands quickly.

#### **Manufacturing**

Coordination with many people, even across different plants, can be done easily and quickly with the **SMP418**. Its extended talktime will easily last beyond 12-hour shift.

#### **Construction**

A harsh environment requires a hardy radio. The **SMP418** meets stringent Military Standards 810 C, D, E and F for durability; and loud 500mW speaker ensures clear audio even in high noise environments.



## Unique Features

### Voice Operated Transmission (VOX)

Provides total handsfree for maximal productivity.

### Battery Indicator

LED provides status of battery life at a glance.

### Sticky Permanent monitor

Allows you to stay on monitor mode without consistently pressing the programmable button.

## Programmable Features

- High/Low Power
- System Scan
- Monitor
- Tight/Normal Squelch
- Repeater/Talkaround
- Battery Indicator

## Accessories

A comprehensive range of accessories is also available so that the radios can be customised to suit your needs. The right combinations of batteries, headsets, carry cases and antenna can increase your productivity and comfort tremendously. Motorola original accessories are built with the highest quality standards and are specially engineered to assure maximum performance of your radio.

## Accessories #

**Slim Lilon Battery**

**Desktop Rapid Charger**

# Motorola carries a wide range of audio and carrying solution. Please refer to specified accessories brochures for more information.

## SMP418 Specifications \*

General	VHF		UHF	
Frequency	136-174		400-470	
Channel capacity	16 channels			
Dimensions (without belt clip and antenna)				
With slim Lilon	113mm (H) x 55mm (W) x 32mm (D)			
With standard NMH	113mm (H) x 55mm (W) x 35mm (D)			
Weight (without belt clip and antenna)				
With slim Lilon	240g			
With standard NMH	351g			
Average Battery Life@ 5-5-90 Duty Cycle	Hi Power (5W)	Low Power (1W)	Hi Power (4W)	Low Power (1W)
With slim Lilon	10hrs	13hrs	12hrs	17hrs
With standard NMH	10hrs	13hrs	10hrs	13hrs
Power supply	7.5V±20%			
Receiver <sup>+</sup>	VHF 12.5 kHz	VHF 20/25kHz	UHF 12.5 kHz	UHF 20/25kHz
Frequency	136-174		400-470	
Sensitivity 12dB EIA SINAD	0.25uV		0.25uV	
Adjacent Channel Selectivity	-65dB	-70dB	-60dB	-70dB
Intermodulation	-70dB		-70dB	
Frequency Stability (-30°C to +60°C)	0.00025%		0.00025%	
Spur Rejection	-75dB		-75dB	
Hum and Noise	-45dB@12.5kHz -50dB@25kHz			
Image and 1/2 I-F Rejection	-70dB		-70dB	
Audio Output @ < 5% Distortion	500mW		500mW	
Transmitter	VHF	VHF	UHF	UHF
Frequency	136-174		400-470	
Channel Spacing	12.5/20/25kHz		12.5/20/25kHz	
Frequency Stability (-30°C to +60°C)	0.00025%		0.00025%	
Spurs/Harmonics	-36 dBm < 1GHz -30 dBm > 1GHz		-36 dBm < 1GHz -30 dBm > 1GHz	
Audio Response (from 6dB/oct. Preemphasis, 300 to 3000Hz)	+1, -3dB		+1, -3dB	
Audio Distortion @1000Hz, 60% Rated Max. Dev.	<3%		<3%	
FM Noise	-40dB (12.5KHz) -45dB (25KHz)		-40dB (12.5KHz) -45dB (25KHz)	
FCC Modulation 20/25 kHz	16K0F3E & 11K0F3E		16K0F3E & 11K0F3E	

\* Availability subject to country's laws and regulations. Radios meet applicable regulatory requirements.

All specifications subject to change without notice.

Specifications are not representative of all radios and may vary in different radios.

All RF readings are typical.



Stringent Motorola Accelerated Life  
Testing simulating five years of hard use in real  
life. IEC 60068-2-60 Shock, Vibration, Dust,  
Humidity, IP54 for Sealing



Stamp of Approval from the U.S.  
Military for use in rough environment.



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



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