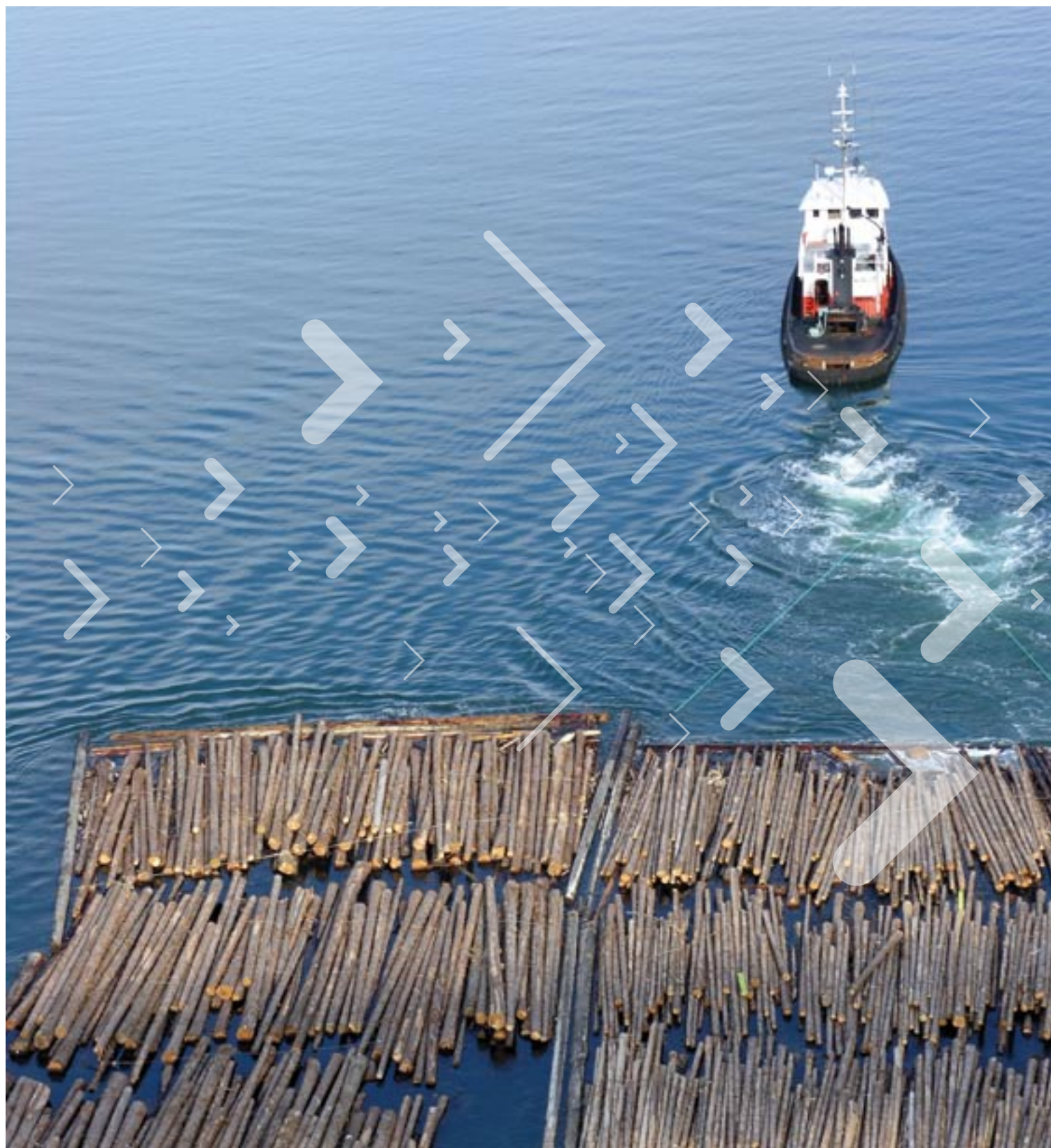




GP-R Series

Professional Submersible Compact Two-Way Radios





Trusted and proven product platform

For over 75 years, Motorola has been a leader in radio communications. From the earliest walkie-talkies, to the first words transmitted from the moon, and currently, to outfitting today's busy professionals with the most efficient means of radio communications – Motorola has always set the standard, which the industry follows. Our innovative thinking has resulted in many of the wireless communication tools available on the market today.

Motorola's Professional Submersible Series radios complement this philosophy. They are designed and manufactured to meet IP67 specifications for total protection against water and dust intrusion. A cost-effective, three-tier communications solution for professionals operating in hazardous and inhospitable environments, these discreet, compact, ruggedised, water and dust resistant radios are designed with different integral feature sets to suit various operating scenarios.

Most importantly, professionals operating in harsh environments want reliable high quality voice communications. Designed to operate in the harshest of outdoor environments Motorola's GP-R Series radios comprise three models that bring practicality to an organisation's two-way communications solution by keeping users in contact when working in tough environments and allowing them to concentrate on their jobs.

GP-R COMPACT PROFESSIONAL SUBMERSIBLE SERIES RADIOS

Submersible, Lightweight, Compact

Rain, wind, snow, dust and exposure to saltwater are every day challenges for professionals who operate in all weathers and environments or occupations where inhospitable conditions are a hazard to conventional communications devices. In such conditions, personal and group safety is a prime consideration when carrying out and managing work programmes. Reliable and efficient communications is therefore critical to completing tasks efficiently and safely.

For professionals who need to stay in contact

- Airports: Ramp and Security Operations
- Port & Harbour Authorities
- Container Depots
- Civil Engineering
- External Security
- Construction / Utilities
- Civil Engineering
- Forestry
- Quarrying

Quality assured design

All GP-R Series radios comply with the following International Standards:

- MIL 810F specifications
- IP67 – sealing for total protection against dust and water intrusion
- Intrinsically Safe – (FM)2
- Motorola Accelerated Life Test (ALT) simulation five years of use



Water- and dust-tight solution

Our GP-R submersible, compact professional series of portable two-way radios extends Motorola's professional radio portfolio to provide exceptional quality, performance, durability and reliability. Deployed at a sea port, airport, construction site, or anywhere that water, dust, mud and grime can compromise efficiency, productivity and even place personnel at risk, the GP-R Series offers a cost-effective, three-tier communications solution.

Small, light weight and designed for durability, the GP-R Series comprises three radios offering instant contact among all your personnel, helping to keep them productive and safe. Beyond that, the GP-R Series enables you to control your teams and individual employees from a distance, ensuring your organisation is running at a high level of efficiency at all times.

Each of the three GP-R Compact Professional Series portables meets IP67 requirements for resilience to water and dust ingress, as well as being resistance to everyday knocks and drops. Size and weight is an equally important design feature, which differentiates the ergonomically designed GP-R Series from conventional portables for use in harsh work environments.

Mix and match solution

With the Motorola GP-R Series you can select the most suitable and cost-effective solution for the job with the confidence that full communication compatibility across the range is guaranteed.

- GP 344-R: compact, discrete non-keypad radio; 16 Channels
- GP 366-R: compact, reduced keypad and alpha-numeric display; 255 Channels
- GP 388-R: compact, full keypad plus alpha-numeric display and Status Call text feature; 255 Channels

Standard operating features – all models

Advanced Audio Technology

Motorola's voice compression and low level expansion technology enables crisp, clear and loud audio reception.

Emergency Call

An easily-accessible, one-touch emergency button triggers emergency call when pressed, for urgent communications in critical situations.

Switchable RF Power Levels

Adjusts the radio's transmitting power according to the operating environment and offers a choice between maximising coverage and conserving battery power. High RF power increases transmission range, while low power conserves battery life.

Tight / Normal Squelch

Enhances audio clarity by filtering out unwanted interference. A tight squelch gives clearer playback of messages, while a normal squelch increases coverage.

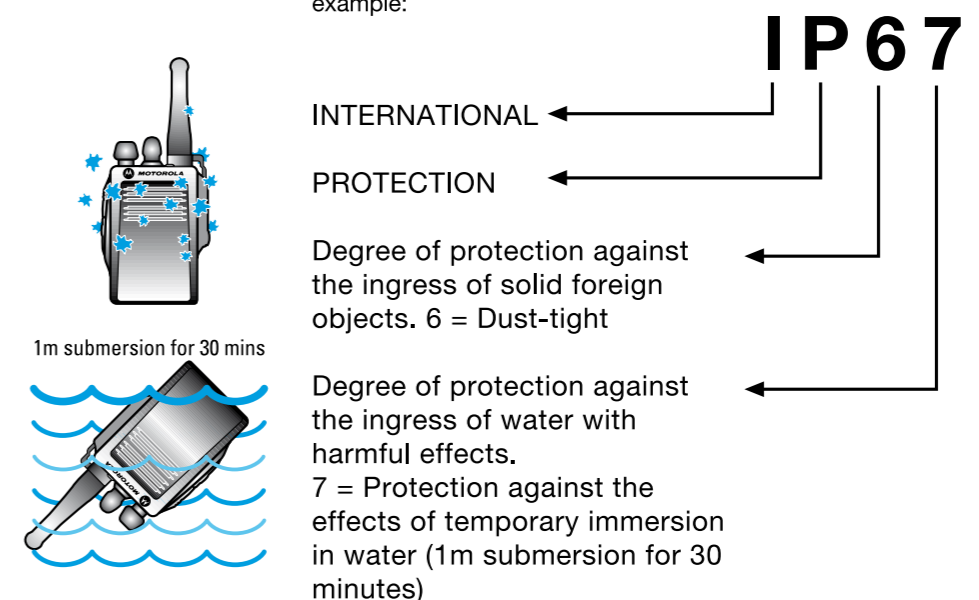
Enhanced Li-Ion Battery Performance

Each GP-R Series radio is fitted as standard with a high-capacity Lithium Ion battery. Providing for longer battery life and having no memory or 'over-charge' side effects, Li-Ion batteries offer increased operating times and extended service life when compared to NiCad or NiMH batteries.

IP Code

The IP Code is a designation that indicates the level or amount of protection. The IP Code designation consists of the letters IP (International Protection) followed by two numerals –

example:



GP-R SERIES

The GP-R series is a streamlined two-way radio solution for professionals who require a rugged, reliable radio to help them stay in contact. It brings practicality to an organisation's two-way communications solution by keeping its users in contact while allowing them to concentrate on their jobs and is designed to provide reliable communications even in the harshest environmental conditions.

Lightweight and compact, it will not hamper users during work routines and durability is ensured with IP67-rated protection against dust and water. Simple, programmable buttons ensure fast communications, with the ergonomic designed Push-To-Talk button providing for easy operation, even with gloved hands. With the GP-R series, communication could not be easier.

Combining communications with user safety, the GP 344-R incorporates an Emergency Signalling feature that can be configured to send a help signal to a pre-defined person or group of people at a single push of the bright orange Emergency Button.

With option board capability and a wide range of accessories available within the Professional Series, you can build a tailored communications solution to meet your needs.



GP344R

Cost-effective communications in harsh work environments

The GP344-R is a simple, effective and discrete communication tool. This is for the professional operating at the workface, possible in foul-weather clothing, who requires reliable two-way communication with other team members and management plus emergency features to ensure safety.

GP366R

Hands-on functionality

The GP366-R, one of the market-leading radios in Motorola's Professional Submersible Series, is an effective communication solution for larger organisations with many teams. The radio offers broad functionality; an easy-to-use menu with navigation keys for productivity, whilst security features protect users working alone or remotely.

GP388R

The essential tool for growing organisations

The GP388 offers unique versatility allowing the radio to reflect the changing way that professionals need to communicate when working or managing teams that may be dispersed over a large area. In addition to the features of both the GP344-R and GP366-R, the advanced GP388-R has a full keypad and an alpha-numeric display including battery gauge and caller identity.

Operating features for all GP-R radios

Signalling

The radio software encompasses Private Line™ and 5-tone selective signalling.

X-Pand™ Voice Compression and Low Level Expansion

Crisp, clear and strong audio quality in virtually any noisy environment. Low level expansion allows further improvements in audio quality by reducing noise usually heard during pauses in conversation.

Voice Operated Transmit (VOX)

Hands-free operation when used with VOX headset accessory.

Adjustable Power Levels

The radio output power has two settings – low power extends battery life and high power allows the radio to transmit over a greater distance.

Emergency Signalling

Sends a help signal to a pre-defined person or group of people.

Programmable Channel Spacing (12.5 / 20 / 25 KHz)

Flexible and easy migration of channel spacing requirements in any situation.

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.

Talkaround

Freedom to communicate utilising a system or dispatcher for wide-area coverage, or bypass and talk directly to another unit for easy local unit-to-unit communications.

Whisper

Allows a user to speak quietly into a radio and still be heard clearly.

Call Forward

Allows calls to be forwarded to another radio user if you are unable to answer your calls personally.



GP-R SERIES ACCESSORIES

The GP-R series radio portfolio is supported by a range of genuine Motorola accessories to enhance functionality and ensure the highest performance of the radio solution. Whether it is harsh working conditions, noisy environments, long shifts or the focus is on discrete communication, the GP-R series accessories range will meet the need. The versatile range of accessories allows users to focus on the job at hand whether that is ensuring the safety of people or equipment, maintaining production efficiency or moving goods or people. The accessories are designed with the user in mind and the ergonomic and easy to use accessories helps ensure the team keeps in contact.

Audio Solutions

Remote- and Public Speaker Microphones are versatile and reliable accessories allowing users to remain in full contact without removing the radio from its position at the belt, in a case or a charger. The range of Speaker Microphones offered with Motorola's Professional Series utilises different technologies to offer enhanced background reduction, reduced water intrusion and enhanced coverage along with earjack and programmable buttons. A versatile range of audio accessories ensures that users have full advantage of the services offered by the GP-R series. Tailored solutions ensure efficiency for safety organisations, covert, commercial and industrial users.

Battery and Charging Solutions

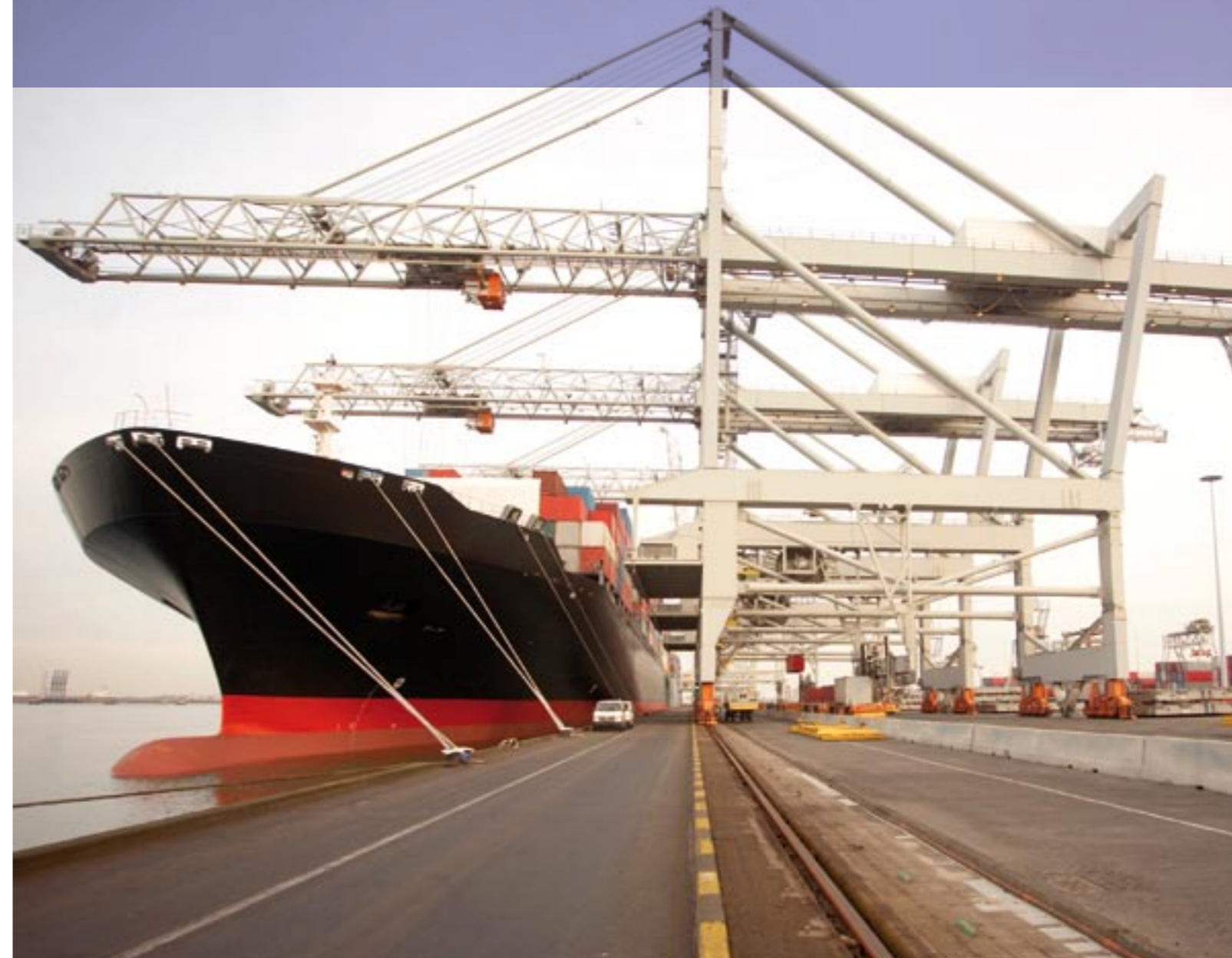
The power to communicate is vital and requires efficient battery and charging solutions. Motorola Professional Series offer different types of battery solutions depending on customer requirements.

Carrying solutions

The ability to perform the job while staying in contact requires good carrying solutions. Motorola Professional Series offers a wide range of solutions including belt clips, nylon- and leather carry cases, shoulder straps and chest packs. All designed to optimise user performance and enhance functionality such as ruggedness as well as water and dust resistance.

(Images to follow)

(Images to follow)



GP344R, GP366R, GP388R Specifications

General Specifications			
	GP344R	GP366R	GP388R
Channel Capacity	16	?	255
Dimensions: H x W x D (mm) Height excluding knobs	101.5 x 56.5 x 37.0	?	101.5 x 56.5 x 39.0
Weight: (gm) With high capacity Lilon battery	305	?	320
Power Supply	Rechargeable battery 7.5v		
Average Battery Life @5/5/90 Cycle: With high capacity Lilon battery	Low Power >13 hours		High Power >10 hours
Sealing:	Withstands rain testing per MIL STD 810 C/D/E and IP67		
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	
*Frequencies - Full Bandsplit	VHF: 136-174 MHz UHF1: 403-470 MHz UHF2: 450-527 MHz
Channel Spacing	12.5/25 kHz
Frequency Stability (-25°C to +55°C, +25° Ref.)	±2.5 ppm
Power	136-174: 1-5W 403-470: 1-4W 450-527: 1-4W
Modulation Limiting	±2.5 @ 12.5 kHz ±4.0 @ 20 kHz ±5.0 @ 25 kHz
FM Hum & Noise	-40 dB typical
Conducted/Radiated Emission	-36 dBm <1 GHz -30 dBm >1 GHz
Audio Response (300-3000Hz)	+1 to -3 dB
Dust and Humidity:	<5% typical

Receiver	
*Frequencies - Full Bandsplit	VHF: 136-174 MHz UHF1: 403-470 MHz UHF2: 450-527 MHz
Channel Spacing	12.5/25 kHz
Sensitivity (12 dB SINAD) EIA	.35 µV typical
Intermodulation ETS	-65 dB
Adjacent Channel Selectivity	60 dB @ 12.5 kHz 70 dB @ 20/25 kHz
Spurious Rejection	70 dB
Rated Audio	0.5W
Audio Response (300-3000Hz)	+1 to -3 dB

Data is specified for +25°C unless otherwise stated.

*Availability subject to the laws and regulations of individual countries.

Portable Military Standards 810 C, D, & E								
Applicable MIL-STD	810C		810D		810E		810F	
	Methods	Procedures	Methods	Procedures	Methods	Procedures	Methods	Procedures
Low Pressure	500.1	1	500.2	2	500.3	2	500.4	2
High Temperature	501.1	1,2	501.2	1,2	501.3	1,2	501.4	1,2
Low Temperature	502.1	1	502.2	1,2	502.3	1,2	502.4	1,2
Temp. Shock	503.1	1	503.2	1	503.3	1	503.4	1
Solar Radiation	505.1	1	505.2	1	505.3	1	505.4	1
Rain	506.1	1,2	506.2	1,2	506.3	1,2	506.4	1,3
Humidity	507.1	2	507.2	2,3	507.3	2,3	507.4	-
Salt Fog	509.1	1	509.2	1	509.3	1	509.4	-
Dust	510.1	1	510.2	1	510.3	1	510.4	1
Vibration	514.2	8,10	514.3	1	514.4	1	514.5	1
Shock	516.2	1,2,5	516.3	1,4	516.4	1,4	516.5	1,4





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