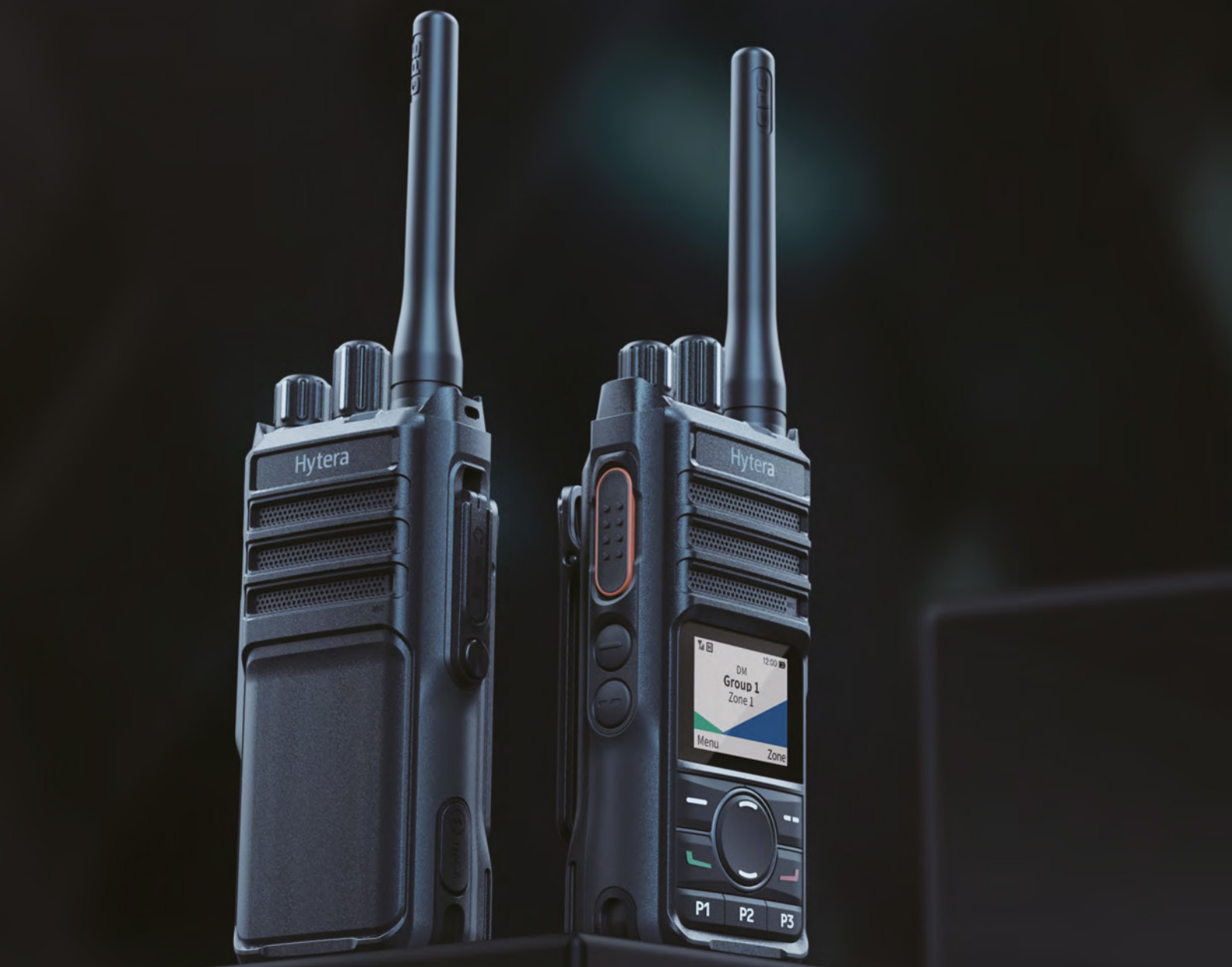
Hytera

Apex
Radio Systems Ltd.

PROFESSIONAL DMR PORTABLE TWO-WAY RADIO **HP5 SERIES**

EMPOWER YOUR OPERATION



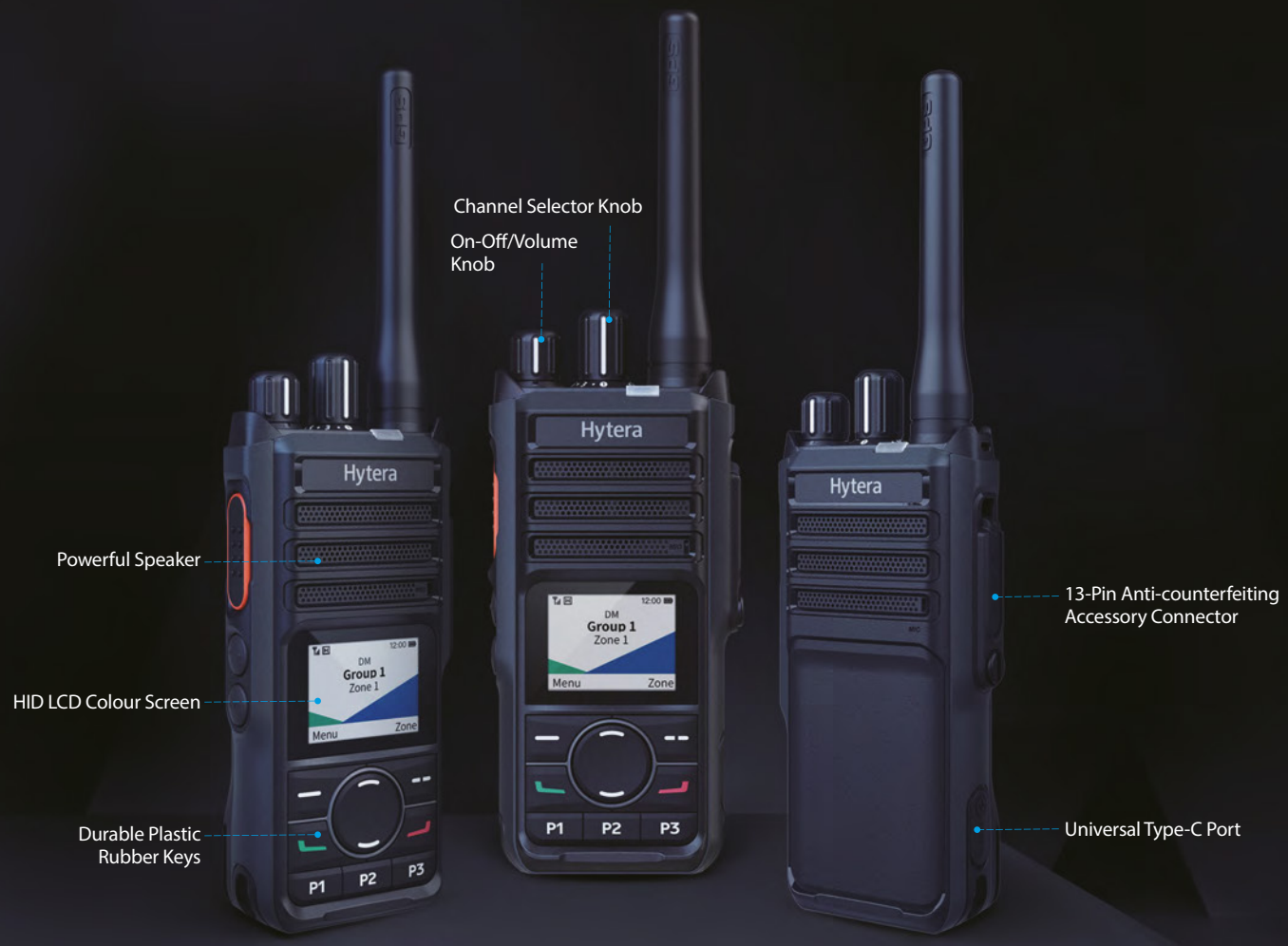
www.hytera-europe.com

Superior Durability

Hytera HP5 Series is a new generation of professional portable two-way radio that provides reliable voice communications for high-end office buildings, stadiums, industrial parks, schools, hospitals and more.

Engineered with usability in mind, there are two dedicated knobs for volume and channel controls to improve your efficiency. The universal Type-C port makes programming, upgrading and charging more convenient than ever before. The BT capability gives you more mobility when you need to get the job done, without the hassle of wires and cords.

Reliability is redefined. Durable enough to withstand dust, heat, shock and water submersion, the HP5 Series is IP67 and MIL-STD-810G certified. The superior audio has not been compromised, thanks to the powerful speaker and the AI-based noise cancellation algorithm. The outstanding sensitivity ensures stable communications in challenging environments.



Crisp, clear audio

Purify your voice, and eliminate the noise. The HP5 Series delivers crystal-clear audio in any environment, thanks to AI-based noise cancellation. This technology suppresses any annoying feedback howling and filters out any unwanted ambient noises. So you can feel like you are talking face to face in every call no matter where you are.

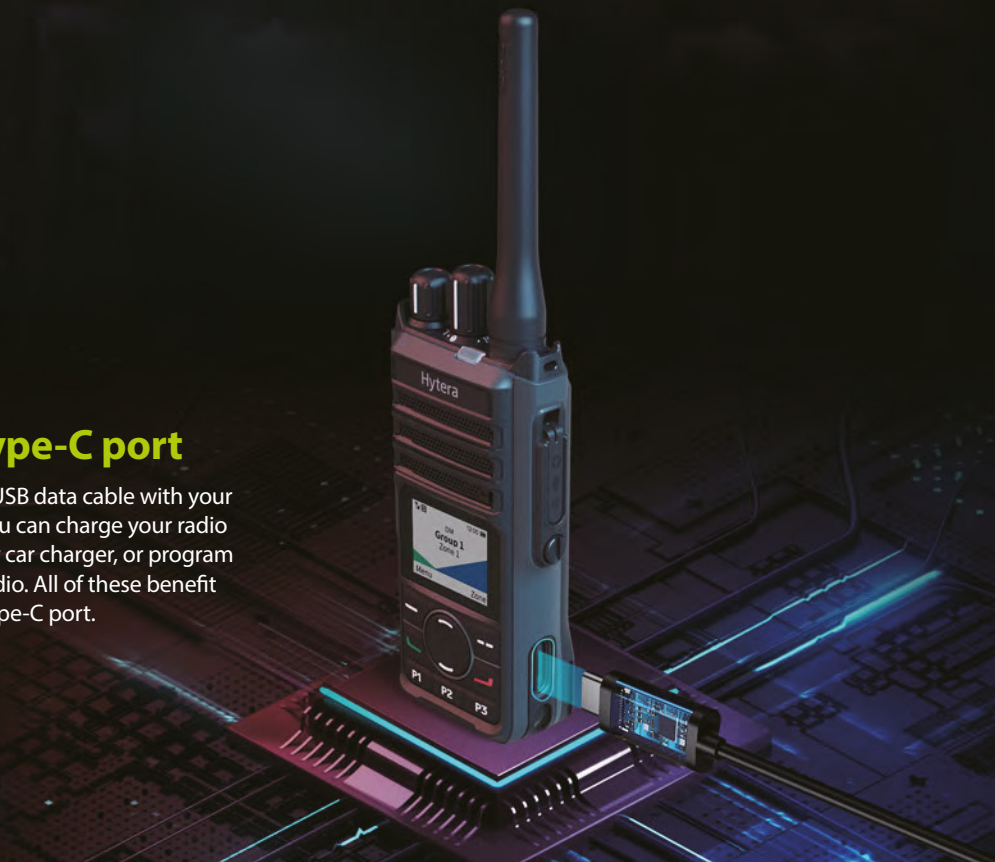
Break through the distance

When you go further out, you may encounter degraded communications due to weak radio signals.

With 0.18 μV (-122 dBm) sensitivity, the HP5 series provides exceptional communication coverage. It ensures reliable communications even with weak signals at the edge of coverage. Wherever you go in the workplace, you can always stay connected.

Versatile Type-C port

Just share the same USB data cable with your smartphone, then you can charge your radio with a power bank or car charger, or program and upgrade your radio. All of these benefit from the universal Type-C port.



BT, wirelessly, conveniently

The HP5 Series has optional BT 5.2 capability, so you can experience total freedom with no cords when using BT audio accessories. This feature also allows you to pair the radio with your smartphone, and with the Hytool Radio Manager App you can get radio programming done on your Android Smartphone.

Track your people and device anywhere

Location tracking is crucial for personal safety especially in emergency situations. The HP5 Series can provide updates to a dispatcher, thanks to the optional GPS, BDS and GLONASS positioning systems. The dispatcher receives the radio position automatically sent with the emergency call and can then very quickly allocate resources for assistance or rescue.

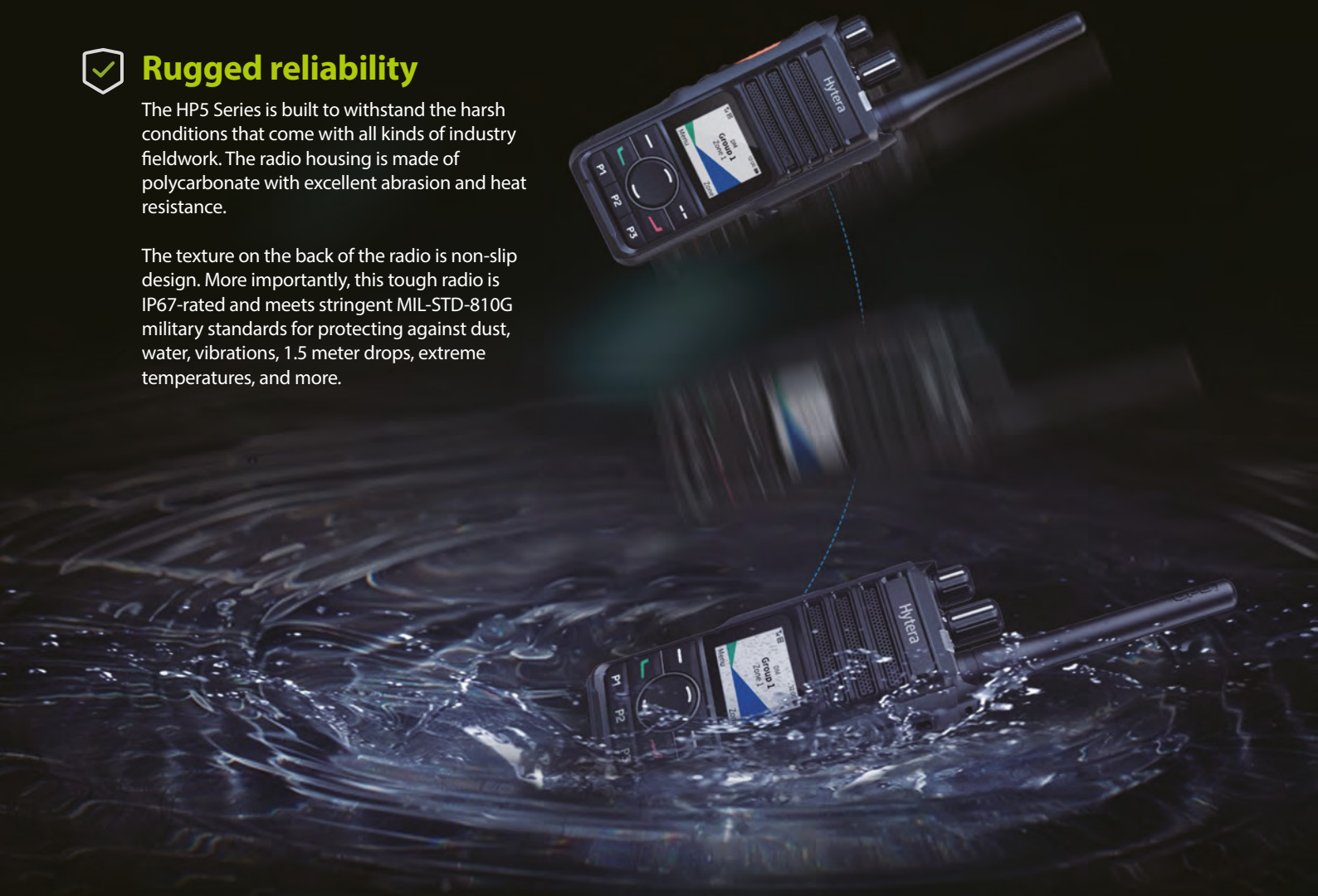
Easier to use

The HP5 Series has dedicated dual knobs for volume and channel controls, improving your efficiency. The U-shaped slot on the back of the battery allows you to install or remove the belt clip more easily. The enlarged LED indicator allows you to know the radio status at a glance, no matter whether the radio is in your hand or on your shoulder or waist.

Rugged reliability

The HP5 Series is built to withstand the harsh conditions that come with all kinds of industry fieldwork. The radio housing is made of polycarbonate with excellent abrasion and heat resistance.

The texture on the back of the radio is non-slip design. More importantly, this tough radio is IP67-rated and meets stringent MIL-STD-810G military standards for protecting against dust, water, vibrations, 1.5 meter drops, extreme temperatures, and more.



FEATURES

Work Mode

- XPT Single Site (With Licence)
- Digital Conventional
- Analog Conventional

Data Services (HP56X Only)

- Text Message
- Quick Text

Voice Services

- Private Call
- Group Call
- All Call
- Emergency Call
- Time-out Timer

Connectivity

- BT Voice
- GNSS
  - GPS
  - BDS
  - GLONASS
- Type-C Port

Security

- Emergency Alarm
- Lone Worker
- Authentication
- Basic Encryption
- Radio Disable/Enable

Supplementary Services

- Programmable Keys
- Roam
- Remote Monitor
- Radio Check
- Voice Broadcast
- Scan
- RRS
- Call Alert (HP56X Only)

Special Services

- Priority Interrupt
- Priority Call
- Mixed Channel
- Voice Buffer
- QR Code (HP56X Only)

SPECIFICATIONS

General	
Frequency Range	400-470MHz 136-174MHz
Channel Capacity	HP50X: 256 HP56X: 512
Zone Capacity	HP50X: 16 HP56X: 32
Zone Channels	HP50X: 16 HP56X: 32
Channel Spacing	12.5kHz/20kHz/25kHz
Operating Voltage	7.4V (rated)
Battery	1500 mAh Li-ion
Battery Life (5/5/90)	15h (GNSS OFF) 13h (GNSS ON)
Frequency Stability	±0.5ppm
Antenna Impedance	50Ω
Dimensions (H x W x D)	HP50X: 119 x 55 x 30.5mm HP56X: 119 x 55 x 30.5mm
Weight (with antenna & battery)	HP50X: 265g HP56X: 270g
Display	HP50X: / HP56X: 1.45 inch LCD, 240 x320 pixels, colourful
BT	BT 5.2 BLE+EDR
Receiver	
Sensitivity	Analog: 0.18μV (12dB SINAD); 0.16μV (Typical) (12dB SINAD) Digital: 0.18μV/BER5%
Adjacent Channel Selectivity	TIA-603: 60dB@12.5kHz; 70dB@20/25kHz ETSI: 60dB@12.5kHz; 70dB@20/25kHz
Intermodulation	TIA-603: 70dB@12.5/20/25kHz ETSI: 65dB@12.5/20/25kHz
Spurious Response Rejection	TIA-603: 70dB@12.5/20/25kHz ETSI: 70dB@12.5/20/25kHz
Blocking	TIA-603: 80dB ETSI: 84dB
Hum and Noise	40dB@12.5kHz; 43dB@20kHz; 45dB@25kHz
Rated Audio Power Output	0.5W
Rated Audio Distortion	⩽3%
Audio Response	+1 ~ -3dB
Conducted Spurious Emission	<-57dBm
Transmitter	
RF Power Output	UHF: 1W/4W VHF: 1W/5W
FM Modulation	11K0F3E@12.5kHz 14K0F3E@20kHz 16K0F3E@25kHz
4FSK Digital Modulation	12.5kHz Data Only: 7K60FXD 12.5kHz Data and Voice: 7K60FXW
Conducted/Radiated Emission	-36dBm＜1GHz; -30dBm＞1GHz
Modulation Limiting	±2.5kHz@12.5kHz;±4.0kHz@20kHz; ±5.0kHz@25kHz
FM Hum & Noise	40dB@12.5kHz; 43dB@20kHz; 45dB@25kHz
Adjacent Channel Power	60dB@12.5kHz; 70dB@20/25kHz
Audio Response	+1 to -3dB
Audio Distortion	≤3%
Digital Vocoder Type	AMBE+2™
Environmental	
Operating Temperature	-30°C* ~ +60°C
Storage Temperature	-40°C~ +85°C
ESD	IEC 61000-4-2 (Level 4) ±8kV (contact); ±15kV (air)
Dustproof & Waterproof	IEC60529-IP67
Humidity	MIL-STD-810G
Shock and Vibration	MIL-STD-810G
Location Services	
GNSS	GPS, GPS+GLONASS, GPS+BDS
TTFF(Time To First Fix) Cold Start	<1minute
TTFF(Time To First Fix) Hot Start	<10seconds
Horizontal Accuracy	<5meters

Accuracy specs are for long-term tracking
(95th percentile values>5 satellites visible at a nominal -130dBm signal strength)

*Radio only - Battery -20°C

ACCESSORIES

● Standard ● Optional

● Charger

● Adapter(12V/1A)

● Li-ion battery 1500mAh

● Antenna

● Belt clip

● Strap

● BT Wireless earpiece

● BT wireless ring PTT

● Programming cable (USB port)

● BT Wireless remote speaker microphone

● Wired earpiece

● Multi-unit charger

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