

The HP505 is a new generation of professional portable two-way radio that provides reliable voice communications.

Engineered with usability in mind, there are two dedicated knobs for volume and channel controls to improve your efficiency.

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.



Specifications

General

Frequency Range	UHF: 400-470MHz VHF: 136-174MHz
Channel Capacity	256
Zone Capacity	16
Zone Channels	16
Channel Spacing	12.5kHz/20kHz/25kHz
Operating Voltage	7.4V (rated)
Battery	1500 mAh Li-ion
Battery Life (5/5/90)	13h (GNSS on), 15h (GNSS off)
Frequency Stability	±0.5ppm
Antenna Impedance	50Ω
Dimensions (HxWxD)	119x55x30.5mm
Weight (with antenna & battery)	265g
BT	BT 5.2 BLE+EDR

Receiver

Sensitivity	Analog: 0.18μV (12dB SINAD); 0.16μV (Typical) (12dB SINAD) Digital: 0.18μV/BER5%
Selectivity	TIA-603: 60dB@12.5kHz / 70dB@20/25kHz ETSI: 60dB@12.5kHz/ 70dB@20/25kHz
Intermodulation	TIA-603: 70dB@12.5kHz/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 ~ -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-810 G
Shock and Vibration	MIL-STD-810 G

Location Services

GNSS	GPS, GLONASS, GPS+GLONASS
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

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Features

- ✓ Type-C Port
- ✓ Private Call
- ✓ Group Call
- ✓ Emergency Call
- ✓ Lone Worker
- ✓ Programmable Keys
- ✓ Radio Check
- ✓ Priority Interrupt

Accessories

Standard

	CH10L27 Single-unit Charger for Li-ion polymer battery
	PS1044 Universal Standard Switching Power Adapter
	BL1508 Li-ion battery (1500mAh)
	AN0160H13 VHF Antenna (146-174 MHz)
	AN0435H13 UHF Antenna (400-470MHz)
	BC48 Spring Belt Clip
	RO03 Nylon wrist strap

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