

EMPOWER YOUR OPERATION

HP688 VHF

NEXT GENERATION DIGITAL PORTABLE RADIO



EMPOWER YOUR OPERATION

Small and light in style, the HP688 VHF delivers uncompromising clear audio and extended coverage together with powerful battery, exceptional ruggedness and abundant features. It is an ideal partner as well as an easy-to-use tool for customer-facing staff, enabling them to focus on their work and service at all times and places, thus increase the productivity and efficiency of the organization.

HIGHLIGHTS

Light and Stylish

The streamlined HP688 VHF is compact and light for easy carrying and wearing, at the meanwhile has stunning clear audio and long battery life, always ensuring the professional service of your staff and organization.

Long Battery Life

The HP688 VHF allows users to enjoy easy carrying and wearing, it has a long battery life over 20 hours @ 5-5-90 standard as well. Users no longer need to charge the radio or change the battery until the full day work is finished.

Clear Audio

The HP688 VHF uses the cutting-edge AI-based noise cancellation technology to decrease the unwanted background noise and reduce howling, maintaining high audio clarity. Users can now hear and be heard regardless of any noise.

Rugged and Durable

Being manufactured as per the MIL-STD-810 G standard, the HP688 VHF is IP67 rated and resilient to 2-meter drop to stand up to a lot of wear and tear. Now the tough environment will no longer slow your staff and organization down.



Easy to Use

The HP688 VHF is designed for ease of use in a compact and discreet form. Tactile PTT, programmable buttons and keys allow professionals to respond positively. The integrated BT5.0 technology provides flexible wireless connection with accessories to keep their hands free.

Extended Range

Thanks to the improved receiver sensitivity, the HP688 VHF provides better connectivity both in marginal areas of coverage and indoors. This will deliver improved safety and operational benefits for operatives in the field.



HP688 VHF

FEATURES

Operating Modes

- Digital Conventional
- Analog Conventional

Data Service

- Text Message
- Quick Text Message

Voice Service

- Private Call
- Group Call
- All Call
- PSTN/PABX Call
- Emergency Call
- Priority Interrupt

Connection

- BT Audio
- BT Data
- GNSS
- GPS
- GLONASS
- Open API

Safety

- Emergency
- Man Down
- Lone Worker
- Authentication
- Air Interface Encryption
- End-to-End Encryption
- Disable/Enable

Supplementary

- Profiles
- Programmable Buttons
- Interface Switcher
- QR Code
- Roaming
- Remote Monitor
- Radio Check
- Alert Call

Analog Mode

- 2-Tone signaling
- HDC1200

SPECIFICATIONS

General	
Frequency Range	VHF:136-174MHz
Channel Capacity	1024
Zone Capacity	64
Zone Channels	256
Channel Spacing	12.5kHz
Operating Voltage	7.7V (rated)
Battery	2000 mAh Li-polymer
Battery Life (5/5/90)	16h (GNSS on) 20h (GNSS off)
Frequency Stability	±0.5ppm
Antenna Impedance	50Ω
Dimensions (H x W x D)	HP6888 VHF: 122 x 55 x 31.5mm
Weight (with antenna & battery)	HP688 VHF : 280g
Display	HP688 VHF: 160 x128pixels, 65536colors, 1.8inch, 6rows
BT	BT 5.0 BLE+EDR

Receiver	
Sensitivity	Analog: 0.18μV (12dB SINAD); 0.16μV (Typical) (12dB SINAD) Digital: 0.18μV/BER5%
Selectivity	TIA-603: 60dB@12.5kHz ETSI: 60dB@12.5kHz
Intermodulation	TIA-603: 70dB@12.5kHz ETSI: 65dB@12.5kHz
Spurious Response Rejection	TIA-603: 70dB@12.5kHz ETSI: 70dB@12.5kHz
Blocking	TIA-603: 80dB ETSI: 84dB
Hum and Noise	40dB@12.5kHz
Rated Audio Power Output	0.5W
Rated Audio Distortion	≤3%
Audio Response	+1 ~ -3dB
Conducted Spurious Emission	<-57dBm

Transmitter	
RF Power Output	VHF: 1W/5W
FM Modulation	11K0F3E@12.5kHz
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
FM Hum & Noise	40dB@12.5kHz
Adjacent Channel Power	60dB@12.5kHz
Audio Response	+1 ~ -3dB
Audio Distortion	≤3%
Digital Vocoder Type	AMBE+2™
Digital Protocol	ETSI-TS102 361-1,-2,-3

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
TTF (Time To First Fix) Cold Start	<1minute
TTF (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

- Charger CH10L27
- Adapter(12V/1A)
- Battery BP2002
- Antenna
- Belt Clip BC48
- Strap RO03

Optional



Wireless Earphone



Programming Cable
(USB Port)



Wireless Finger PTT



Hytera Communications Corporation Limited

Stock Code: 002583.SZ

Address: Hytera Tower, Hi-Tech Industrial Park North, 9108# Beihuan Road,
Nanshan District, Shenzhen, P.R.C

Tel: +86-755-2697 2999 Fax: +86-755-8613 7139 Post: 518057

Http://www.hytera.com marketing@hytera.com



Hytera retains right to change the product design and specification. Should any printing mistake occur, Hytera doesn't bear relevant responsibility. Little difference between real product and product indicated by printing materials will occur by printing reason.

HYT, Hytera are registered trademarks of Hytera Communications Corp., Ltd.
© 2021 Hytera Communications Corp., Ltd. All Rights Reserved.