

**EMPOWER YOUR OPERATION**

**HP788 VHF**

**NEXT GENERATION DIGITAL PORTABLE RADIO**



## HIGHLIGHTS



### THINNER AND LIGHTER

An optimized mechanical design and a compact lithium polymer battery are discreetly made to HP788, delivering the radio only 29.5mm in thicknesses and 310g in weight. This easy to carry and wear design benefits officers who highly focus on mission critical a lot, because they are no longer distracted by the size and weight.



### LONGER BATTERY LIFE

The latest in proven lithium polymer technology is used to the standard battery of HP788. The battery is lighter and smaller than ever before, and still delivers a duty cycle of 5/5/90 on achieving a shift life of 24 hours on high transmit power. This powerful battery ensures a full day delivering of key information and calls.



### LOUDER AND CLEARER AUDIO

The HP788 has louder and clearer audio through an optimized forward facing speaker and AI-based noise cancellation that decreases the unwanted background noise and howling. Water-porting technology is also used to drain out any water that gets into the speaker cavity, ensuring the audio clarity is maintained.



### MORE INTUITIVE AND EFFICIENT

The 2.4-inch screen gets a brand new intuitive UI to make the HP788 more efficient. It has Quick Access Menu that allows users to set the radio fast. Messages are listed in conversation for quick reading and review. The Interface Switcher is added to the option of programmable buttons, allowing quick switch between up to four frequently accessed interfaces.



### ENHANCED COVERAGE

The HP788 extends the operation range and improve the talk range through high receiver sensitivity and high transmit power, stretching communications into areas where it simply was not possible before. The very enhanced coverage improves the user safety and reduces network cost as much as possible.



### HIGHER LEVEL OF RUGGEDNESS

HP788 is designed as per the MIL-STD-810 G. it is IP68 rated, impervious to water jets and submersible to a depth of 2 meters for 4 hours, and also resilient to 2-meter drops onto concrete. No matter where the mission drives the officer, the HP788 is the partner to count on, because it can stand up to the toughest environment.

# SPECIFICATIONS HP788 VHF

General	
Frequency Range	VHF: 136~174MHz
Channel Capacity	1024
Zone Capacity	64
Zone Channel	256
Channel Spacing	12.5kHz
Operating Voltage	7.7V (rated)
Battery	2400 mAh Li-polymer
Battery Life (5/5/90 Duty Cycle, High TX Power)	24h (GNSS disabled) 20h (GNSS enabled)
Frequency Stability	±0.5ppm
Antenna Impedance	50Ω
Dimensions (H x W x D)	132 x 55 x 29.5mm
Weight(with antenna&battery)	310g
Display	LCD, 320x240 pixel, 262000 colors, 2.4 inch, 10 rows
BT	BT 5.0 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 ETSI: 60dB@12.5kHz
Intermodulation	TIA-603: 70dB@12.5 ETSI: 65dB@12.5
Spurious Response Rejection	TIA-603: 70dB@12.5 ETSI: 70dB@12.5
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 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
FM Hum&Noise	40dB@12.5kHz
Adjacent Channel Power	60dB@12.5kHz
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)
Dust and Water Protection	IEC60529- IP68
Humidity	MIL-STD-810 G
Shock and Vibration	MIL-STD-810 G
Location Services	
Accuracy specs are for long-term tracking(5 satellites visible at nominal -130dBm)	
GNSS	GPS, GLONASS, BDS
TTF (Time To First Fix) Cold Start	<1 min (Typical)
TTF (Time To First Fix) Hot Start	<10 sec (Typical)
Horizontal Accuracy	<5m (probable at -130dBm)

## OPTIONAL ACCESSORIES

Optimize your device with a suite of Hytera accessories for your HP788. Making use of accessories can expand and customize the HP788 functionality for collaborative communications.



Remote Speaker Microphone (IP57)



C-Earset



D-Earset



Earbud



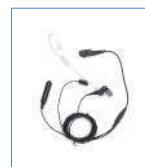
3-Wire Surveillance Earpiece with Transparent Acoustic Tube (beige)



Wireless Earphone



Programming Cable (USB Port)



3-wire Surveillance Earpiece with Transparent Acoustic Tube(Black)



Wireless Finger PTT



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# EVERY DESIGN THAT GOES INTO HP788 MAKES IT STAND APART.



2.4-inch color display



Loud and clear audio



Superior long battery life



AI based noise cancelling



water-porting design



BT 5.0 audio and data



Micro SD Card



PD78X accessory re-use



# FEATURES

## Work Mode

- Digital Conventional
- Analog Conventional
- Digital Trunking

## Data Services

- Text Message
- Status Message
- Quick Text Message
- Clarity Transmission

## Safety

- Emergency
- Man Down
- Lone Worker
- Authentication
- Air Interface Encryption
- End-to-End Encryption
- Scrambler
- Disable/Enable
- Micro SD Card

## Voice Service

- Private Call
- Group Call
- All Call
- PSTN/PABX Call
- Broadcast Call
- Emergency Call
- Alert Call
- Call Priority

## Connection

- BT Audio
- BT Data
- High Efficiency GNSS
  - GPS
  - GLONASS
- Wide Range of Accessories
- Open API

## Supplementary

- Profiles
- Interface Switcher
- QR Code
- Roaming
- Covert Mode
- Radio Check
- Remote Monitor





## NEW TECHNOLOGY, NEW EXPERIENCE, NEW FUTURE

As the leading supplier, Hytera has huge experience in R&D and manufacture of professional digital radios. and received a large number of suggestions and ideas from users of all industries. Having analyzed and extracted users' need, we perceive that it is not enough to improve the status: the radio needs to be more future ready.

Being inspired by these feedbacks, we are continuously envisioning and exploring better communication within an eco-system of new standards, new technologies, new products and new applications across the innovation chain. HP788 is the creative artwork on style and functions that refreshes the standards in professional digital two way radios, providing more efficient and more reliable experience with loud and clear audio, powerful battery, intuitive user interface, remarkable portability and ruggedness.