



# PROFESSIONAL DMR PORTABLE RADIO **HP70X**

**EMPOWER YOUR OPERATION** 





# NEW TECHNOLOGY, NEW EXPERIENCE, NEW FUTURE

As the leading supplier, Hytera has huge experience in R&D and manufacturing 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.

Taking inspiration from the feedback received from our users, 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. The HP70X is our brand new professional digital radio, and represents the future on style and functions that refreshes the standards in digital radios, providing more efficient and more reliable communication with loud and clear audio, powerful battery, remarkable portability and ruggedness for ease of use across multiple environments and industries.













Loud and clear audio



Superior long battery life



Al based noise cancellation



Water-porting design



Global Positioning



audio and data



Supports Micro SD card

#### **FEATURES**

#### Supplementary

- Profiles
- Roaming
- Covert Mode
- Radio Check
- Remote Monitor
- Alert Call

#### **Operating Modes**

- Analog conventional
- Digital conventional
- Digital trunking

#### **Data Services**

- Text Message
- Status Message
- Quick Text Message

#### Voice Service

- Private Call
- Group Call
- All Call
- Broadcast Call
- Emergency Call
- Call Priority

#### Anolog Mode

- 2-Tone signaling
- 5-Tone Signalling
- HDC1200

#### Connection

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

#### Safety

- Emergency
- Man Down
- Lone Worker
- Authentication
- Air Interface Encryption
- End-to-End Encryption
- Scrambler
- Disable/Enable
- Micro SD Card(max.16G)
- Audio recording

# **APPLICATIONS**













### **SPECIFICATIONS**

General	
Frequency Range	UHF: 350~470MHz VHF: 136~174MHz
Channel Capacity	1024
Zone Capacity	64
Zone Channel	256
Channel Spacing	12.5kHz/20kHz/25kHz
Operating Voltage	7.7V
Battery	2400 mAh Li-polymer; Smart Battery: 3000 mAh Li-polymer (optional)
Battery Life (5/5/90)	2400mAh: 3000mAh: 24h(GNSS OFF) 30h(GNSS OFF) 20h(GNSS ON) 25h(GNSS ON)
Frequency Stability	±0.5ppm
Antenna Impedance	50Ω
Dimensions (H x W x D)	2400 mAh: 132 x 55 x 29.5mm 3000 mAh: 132 x 55 x 37.5mm
Weight	2400 mAh: 290g 3000 mAh:325g
Display	0.91 inch OLED Display
ВТ	5.0

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
Inter-Modulation	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 ~ -3dB
Audio Distortion	≤3%
Digital Vocoder Type	AMBE+2 <sup>™</sup> /SELP
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)
Dust and Water Protection	IEC60529 IP68
Humidity	Per MIL-STD-810H Standard
Shock and Vibration	Per MIL-STD-810H Standard

Location Services		
Accuracy specs are for long-term tracking (95th percentile values>5 satellites visible at a nominal -130dBm signal strength)		
GNSS	GPS, GLONASS, GPS+GLONASS	
TTFF(Time To First Fix) Cold Start	<1 min (Typical)	
TTFF(Time To First Fix) Hot Start	<10 sec (Typical)	
Horizontal Accuracy	<5meters	

<sup>\*</sup>Radio only - Battery -20°C

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## **ACCESSORIES**

#### Standard



Charger



Adapter(12V/1A)



Li-polymer battery 2400mAh



attery Antenna



a Belt clip



Strap

#### Optional



BT Wireless earpiece Programming cable



Programming cab (USB port)



BT wireless ring PTT



BT Wireless remote speaker microphone



Wired earpiece



Multi-unit charger



Li-polymer battery 3000mAh



#### Africa Critical Comms

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