

# PROFESSIONAL DMR PORTABLE TWO-WAY RADIO HP5 SERIES

**EMPOWER YOUR OPERATION** 



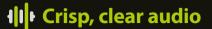
### **Superior Durability**

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 Al-based noise cancellation algorithm. The outstanding sensitivity ensures stable communications in challenging environments.





Purify your voice, and eliminate the noise. The HP5 Series delivers crystal-clear audio in any environment, thanks to Al-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  $\mu$ V (-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.

## (p) 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.





#### **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**

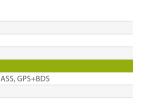
- Programmable Keys
- Roam
- Remote Monitor
- Radio Check
- Voice Broadcast
- Scan
- RRS
- Call Alert (HP56X Only)

#### **Special Services**

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

#### CDECIEICATIONS

General		
Frequency Range	400 <b>-</b> 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@25kH	
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	AIVIDETZ	
Operating Temperature	-30°C* ~ +60°C	
Storage Temperature	-40°C~ +85°C	
otorage remperature		Lo
	IEC 61000-4-2 (Level 4) ±8kV (contact); ±15kV (air)	
ESD	IEC60529-IP67	
ESD  Dustproof & Waterproof	IEC60529-IP67	
	IEC60529-IP67 MIL-STD-810G	
Dustproof & Waterproof		
Dustproof & Waterproof Humidity	MIL-STD-810G	
Dustproof & Waterproof Humidity Shock and Vibration	MIL-STD-810G MIL-STD-810G	NASS, GPS+BDS
Dustproof & Waterproof Humidity Shock and Vibration <b>Location Services</b> GNSS	MIL-STD-810G MIL-STD-810G GPS, GPS+GLON	NASS, GPS+BDS
Dustproof & Waterproof Humidity Shock and Vibration <b>Location Services</b> GNSS TTFF(Time To First Fix) Cold Start	MIL-STD-810G MIL-STD-810G GPS, GPS+GLON <1minute	NASS, GPS+BDS
Dustproof & Waterproof Humidity Shock and Vibration <b>Location Services</b> GNSS	MIL-STD-810G MIL-STD-810G GPS, GPS+GLON	NASS, GPS+BDS



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





#### **BPG Radiocomunicazioni Srl**

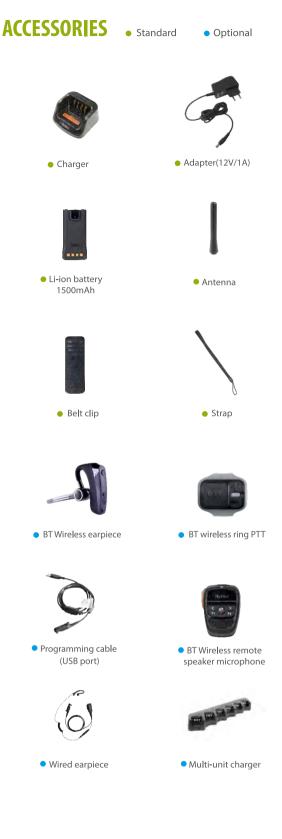
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