PROFESSIONAL DMR PORTABLE TWO-WAY RADIO

# HP5 SERIES

EMPOWER YOUR OPERATION

**DMR**
DIGITAL MOBILE RADIO ASSOCIATION

# EMPOWER YOUR OPERATION

Hytera HP5 Series is a new-gen professional portable two-way radio that provides reliable voice communications for high-end office buildings, stadiums, industrial parks, schools, hospitals, and more.

Effortless usability is reengineered. Two dedicated knobs for volume and channel controls 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 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-810H certified. The superior audio has never been compromised, thanks to the powerful speaker and the AI-based noise cancellation algorithm. The outstanding sensitivity ensures stable communications in challenging environments.

Channel Selector Knob

On-Off/Volume Knob

Powerful Speaker

HD LCD Color Screen

Durable Plastic Rubber Keys

13-Pin Anti-counterfeiting Accessory Connector

Universal Type-C Port

## Crisp, clear audio

Purify your voice, and eliminate the noise. The HP5 Series delivers crystal-clear audio in any environment, thanks to AI-based noise cancellation. This technology suppresses any annoying feedback howling and filters out the unwanted ambient noises. So you can feel like 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 signal. With the 0.18 μV (−122 dBm) sensitivity, the HP5 Series provides exceptional communication coverage. It ensures reliable communications even at the far edge of coverage with weak signal. Wherever you go in the workplace, you can always keep 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.

## BT, wirelessly, conveniently

The HP5 Series has optional BT 5.3 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 then get radio programming done by the HyTool Radio Manager app on your smartphone.

## Track your people and device anywhere

Location tracking is crucial for personal safety especially in emergency situations. The HP5 Series provides location updates to the dispatcher, thanks to the optional GPS and GLONASS positioning systems. The dispatcher can receive the radio location that is automatically sent with the emergency call, and then allot resources for quick 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 makes you know radio status at a glance, no matter whether the radio is in your hand, on your shoulder or waist.

## Rugged reliability

The HP5 Series is built to withstand the harsh conditions that come with all kinds of industry fieldwork. The radio housing is made of polycarbonate with excellent abrasion and heat resistance. And the texture on the back of the radio is non-slip design. More importantly, this tough radio is IP67-rated and meets stringent MIL-STD-810H standards for protecting against dust, water, vibrations, 1.5-meter drops, extreme temperatures, and more.

# FEATURES

## Work Mode
- 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
  - 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)

# SPECIFICATIONS

## General

| | |
|---|---|
| Frequency Range | UHF: 400-470MHz, 350-400MHz; VHF: 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; 3000mAh Li-Polymer (optional) |
| Battery Life (5/5/90) | 1500mAh:          3000mAh:<br>15h (GNSS OFF)   30h (GNSS OFF)<br>13h (GNSS ON)   26h (GNSS ON) |
| Frequency Stability | ±0.5ppm |
| Digital Protocol | ETSI-TS102 361-1,-2,-3 |
| Dimensions (H x W x D) | 1500mAh:                      3000mAh:<br>HP50X: 119 x 55 x 30.5mm   HP50X: 119 x 55 x 36mm<br>HP56X: 119 x 55 x 30.5mm   HP56X: 119 x 55 x 36mm |
| Weight (with antenna & battery) | 1500mAh: HP50X: 265g, HP56X:270g<br>3000mAh: HP50X: 310g, HP56X:315g |
| Display | HP56X: 1.45 inch LCD, 240 x320 pixels, colorful |
| BT | BT 5.3 |

## Receiver

| | |
|---|---|
| Sensitivity | Analog: 0.18μV (12dB SINAD);<br>       0.16μV  (Typical) (12dB SINAD)<br>Digital: 0.18μV/BER5% |
| Adjacent Channel Selectivity | TIA-603: 60dB@12.5kHz; 70dB@20/25kHz<br>ETSI: 60dB@12.5kHz; 70dB@20/25kHz |
| Intermodulation | TIA-603: 70dB@12.5/20/25kHz<br>ETSI: 65dB@12.5/20/25kHz |
| Spurious Response Rejection | TIA-603: 70dB@12.5/20/25kHz<br>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<br>14K0F3E@20kHz<br>16K0F3E@25kHz |
| 4FSK Digital Modulation | 12.5kHz Data Only: 7K60FXD<br>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 to -3dB |
| Audio Distortion | ≤3% |
| Digital Vocoder Type | AMBE+2™/SELP |

## Environmental

| | |
|---|---|
| Operating Temperature | -30°C* ~ +60°C |
| Storage Temperature | -40°C~ +85°C |
| ESD | IEC 61000-4-2 (Level 4)<br>±8kV (contact);<br>±15kV (air) |
| Dustproof & Waterproof | IEC60529-IP67 |
| Humidity | MIL-STD-810H |
| Shock and Vibration | MIL-STD-810H |

## 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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# ACCESSORIES

● Standard    ● Optional


● Charger


● Adapter(12V/1A)


● Li-ion battery 1500mAh


● Antenna


● Belt clip


● Strap


● BT Wireless earpiece


● BT wireless ring PTT


● Programming cable (USB port)


● BT Wireless remote speaker microphone


● Wired earpiece


● Multi-unit charger


● Li-Polymer battery 3000mAh

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**Hytera**
Respond & Achieve

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