

PROFESSIONAL DMR PORTABLE RADIO HP6 SERIES

EMPOWER YOUR OPERATION



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Small and light in style, the HP6 series 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 HP6 series 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

HP6 series integrates proprietary technologies to reduce power consumption, meanwhile the latest in proven lithium polymer technology is used in the standard battery which is lighter and smaller than ever before.

HP6 series bring a long battery life over 20 hours@5-5-90 standard, users no longer need to charge the radio or change the battery until the full day work is finished.

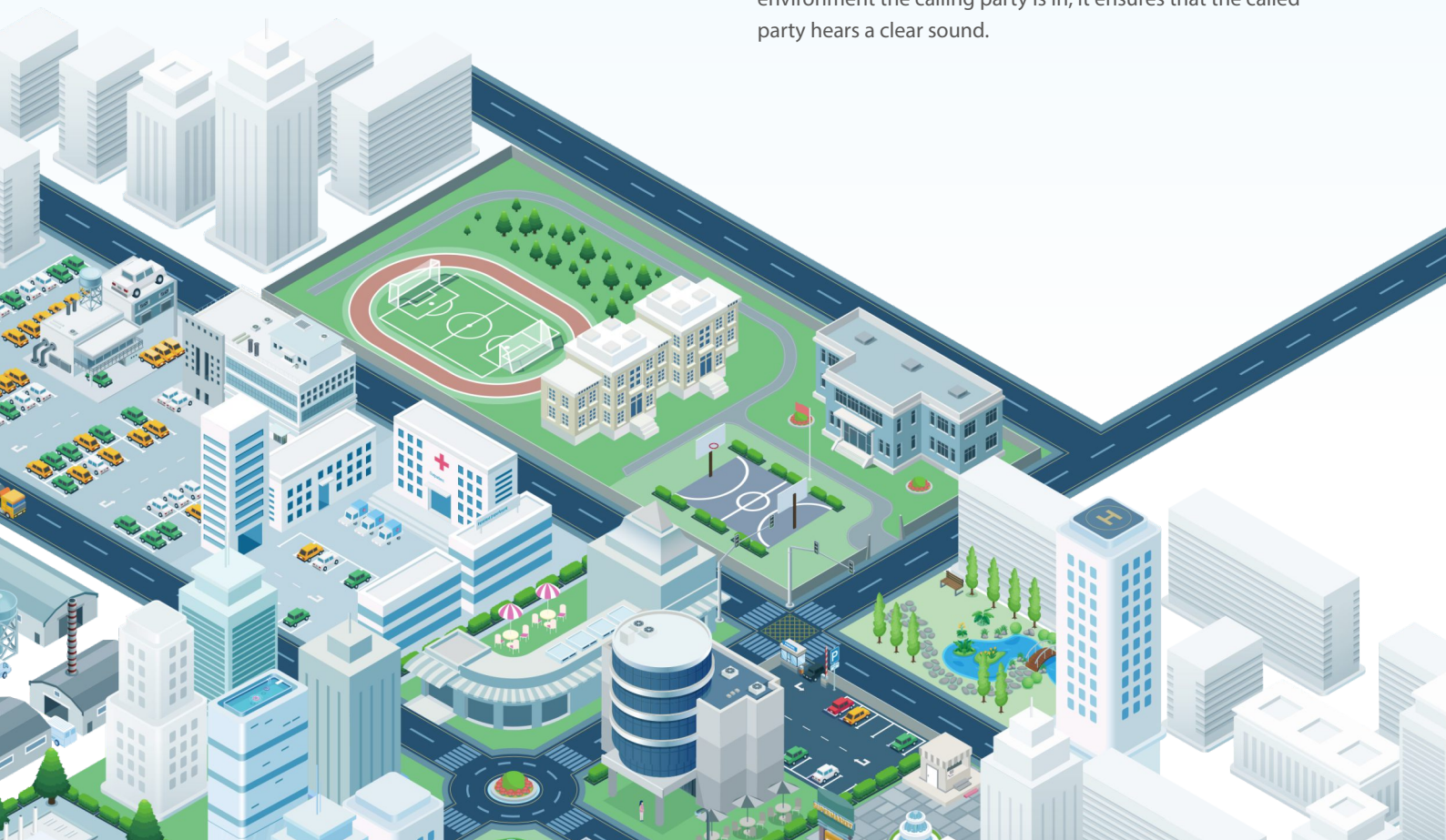
Rugged and Durable

Being manufactured as per the MIL-STD-810H standard, the HP6 series 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.

Clear Audio

HP6 series equips an optimized powerful loudspeaker that can help users to hear clear sounds even in a noisy environment. Water-porting technology is also used to drain out any water that gets into the speaker cavity, ensuring the audio clarity is maintained in case of water.

AI-based noise cancellation technology can decrease 30dB background noise and howling. No matter what noise environment the calling party is in, it ensures that the called party hears a clear sound.



Easy to Use

The HP6 series 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 HP6 series provides better connectivity both in marginal areas of coverage and indoors. This will deliver improved safety and operational benefits for operatives in the field.



HP60X

HP68X

FEATURES

Operating Modes

- Analog conventional
- Digital conventional

Voice Service

- Private Call
- Group Call
- All Call
- Emergency Call
- Priority Interrupt

Safety

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

Analog Mode

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

Data Service

- Text Message
- Quick Text Message

Connection

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

Supplementary

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

SPECIFICATIONS

| General | |
|---------------------------------|--|
| Frequency Range | UHF: 400-527MHz VHF: 136-174MHz |
| Channel Capacity | 1024 |
| Zone Capacity | 64 |
| Zone Channels | 256 |
| Channel Spacing | 12.5kHz/20kHz/25kHz |
| Operating Voltage | 7.7V (rated) |
| Battery | 2000 mAh Li-polymer Smart Battery: 3000 mAh Li-polymer (optional) |
| Battery Life (5/5/90) | 2000mAh: 20h (GNSS OFF) 3000mAh: 30h (GNSS OFF) 16h (GNSS ON) 24h (GNSS ON) |
| Frequency Stability | ±0.5ppm |
| Antenna Impedance | 50Ω |
| Dimensions (H x W x D) | 2000 mAh: HP60X: 122 x 55 x 30.5mm HP68X: 122 x 55 x 31.5mm 3000 mAh: HP60X: 122 x 55 x 38mm HP68X: 122 x 55 x 39mm |
| Weight (with antenna & battery) | 2000 mAh: HP60X: 265g HP68X: 280g 3000 mAh: HP60X: 302g HP68X: 317g |
| Display | HP60X: 0.91inch OLED Display HP68X: 160 x 128 pixels, 65536 colors, 1.8 inch, 6 rows |
| 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 / 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@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™/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) |
| Dustproof & Waterproof | IEC60529-IP67 |
| Humidity | Per MIL-STD-810H Standard |
| Shock and Vibration | Per MIL-STD-810H Standard |

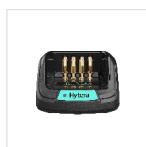
| Location Services | |
|------------------------------------|---------------------------|
| GNSS | GPS, GLONASS, GPS+GLONASS |
| TTFF(Time To First Fix) Cold Start | <1minute |
| TTFF(Time To First Fix) Hot Start | <10seconds |
| Horizontal Accuracy | <5meters |

Accuracy specs are for long-term tracking
(95th percentile values > 5 satellites visible at a nominal -130dBm signal strength)

*Radio only - Battery -20°C

ACCESSORIES

Standard



Charger



Adapter(12V/1A)



Li-polymer battery
2000mAh



Antenna

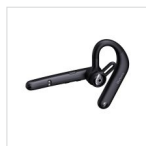


Belt clip



Strap

Optional



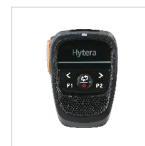
BT Wireless earpiece



Programming cable
(USB port)



BT wireless ring PTT



BT Wireless remote
speaker microphone



Wired earpiece



Multi-unit charger



Li-polymer battery
3000mAh



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