

# PH600

## DMR Portable Radio

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- Digital and Analog Compatible
  - Light and Handy
  - Loud and Clear Sound
  - Large Capacity Battery
  - 2-slot DMO, Mandown
  - IP68
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## Technical Specifications

| General                                                                                                                    |                                                      |
|----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| Digital Protocol                                                                                                           | ETSI TS 102 361-1,-2,-3                              |
| Frequency                                                                                                                  | UHF1: 400-470MHz; VHF: 136-174MHz                    |
| Channel Capacity                                                                                                           | 32                                                   |
| Zone Capacity                                                                                                              | 2                                                    |
| Channel Spacing                                                                                                            | 12.5kHz/20kHz/25kHz                                  |
| Frequency Stability                                                                                                        | ±0.5ppm                                              |
| Operating Voltage                                                                                                          | 7.4V                                                 |
| Battery Capacity                                                                                                           | 2600mAh (Standard) / 2000mAh (Optional)              |
| Battery Life(5:5:90)                                                                                                       | Analog: 16 hours<br>Digital: 20 hours                |
| Size (H x W x D)                                                                                                           | 100x54.5x37.5mm (without antenna)                    |
| Weight                                                                                                                     | About 270g (With Antenna and Battery)                |
| Vocoder                                                                                                                    | AMBE++                                               |
| Bluetooth                                                                                                                  | BT2.1+EDR/4.0 ( optional )                           |
| Location                                                                                                                   | GPS/Glonass( optional )                              |
| Man down                                                                                                                   | Support                                              |
| Vibration                                                                                                                  | Support                                              |
| TF Card                                                                                                                    | Support                                              |
| Geomagnetic                                                                                                                | Support                                              |
| Encryption                                                                                                                 | Support SW and HW Encryption ( Optional )            |
| Environmental                                                                                                              |                                                      |
| Operating Temperature                                                                                                      | -30°C ~ +60°C                                        |
| Storage Temperature                                                                                                        | -40°C ~ +85°C                                        |
| ESD                                                                                                                        | IEC 61000-4-2 (level 4) ±8kV (Contact)<br>±15kV(Air) |
| Dust and Water Resistance                                                                                                  | IP68                                                 |
| Reliability                                                                                                                | MIL-STD-810 G                                        |
| GPS                                                                                                                        |                                                      |
| Accuracy specs are for long-term tracking (95th percentile values>5satellites visible at nominal -130 dBm signal strength) |                                                      |
| TTFF (Time To First Fix) - Cold Start                                                                                      | <60s                                                 |
| TTFF (Time To First Fix) - Hot Start                                                                                       | <10s                                                 |
| Horizontal Accuracy                                                                                                        | <10m                                                 |

| Receiver                       |                                                    |
|--------------------------------|----------------------------------------------------|
| Sensitivity(Analog)            | 0.22uV(12dB SINAD)                                 |
| Sensitivity(Digital)           | 0.22uV (5% BER)                                    |
| Adjacent Channel Selectivity   | 60 dB@12.5kHz/70 dB@20/25kHz (TIA603A) -1T         |
|                                | 45dB@12.5kHz /70 dB@20/25kHz (TIA603D) -2T         |
|                                | 60dB@12.5kHz /70 dB@20/25kHz ( ETSI )              |
| Intermodulation                | 70 dB (TIA603D)                                    |
|                                | 65 dB (ETSI)                                       |
| Spurious Rejection             | 70 dB (TIA603D)                                    |
|                                | 70 dB (ETSI)                                       |
| Blocking or Desensitization    | 80dB(TIA603D)                                      |
|                                | 84dB(ETSI)                                         |
| Co-channel Rejection           | -12~0 dB @12.5kHz/-8~0 dB @20/25kHz                |
| Hum and Noise                  | -40 dB@12.5kHz /-43 dB@20kHz /-45 dB@25kHz         |
| Rated Audio Power              | 0.5W                                               |
| Max Audio Power                | 2.0W                                               |
| Audio Distortion @ Rated Audio | ≤3% (Typical)                                      |
| Audio Response                 | +1~-3dB (TIA603D)                                  |
| Conducted Spurious Emission    | -57 dBm (TIA603D)                                  |
| Transmitter                    |                                                    |
| Low Power Output               | 1W                                                 |
| High Power Output              | 4W (UHF1) / 5W (VHF)                               |
| FM Modulation                  | 12.5kHz: 11K0F3E / 20kHz: 14K0F3E / 25kHz: 16K0F3E |
| 4FSK Digital Modulation        | 12.5kHz Data Only: 7K60F1D&7K60FXD                 |
|                                | 12.5kHz Voice Only: 7K60F1E&7K60FXE                |
|                                | 12.5kHz Voice And Data: 7K60F1W                    |
| Conducted/Radiated Emission    | -36dBm ≤1GHz; -30dBm >1GHz                         |
| Modulation Limiting            | ±2.5kHz @12.5kHz /±4kHz @20kHz /±5.0kHz @25kHz     |
| FM Hum and Noise               | -40 dB@12.5kHz /-43dB@20kHz /-45 dB@25kHz          |
| Adjacent Channel Power         | 60 dB@12.5kHz /70 dB @20/25kHz                     |
| Audio Distortion @ Rated Audio | ≤3% (Typical)                                      |
| Audio Response                 | +1~-3dB(TIA603D)                                   |

## Standard Accessories

|                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |  |  |  |
| Belt Clip×1                                                                         | Antenna×1                                                                           | 2600mAhLi-on Battery×1                                                              | Power Adapter×1                                                                      | Charger×1                                                                             |