

Caltta PH600 Serial DMR Handheld Radio Products List

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| General | |
|---------------------|---|
| Digital Protocol | ETSI TS102 361-1, -2, -3, -4(optional) |
| Frequency | UHF1: 400-470MHz UHF3: 350-400MHz VHF: 136-174MHz |
| Channel Capacity | 64* |
| Zone Capacity | 4* |
| Channel Spacing | 12.5kHz/20kHz/25kHz |
| Frequency Stability | ±0.5ppm |
| Operating Voltage | 7.4V |
| Battery Capacity | 2600mAh(standard) |

| | |
|----------------------|--|
| Battery Life | Analog: 16 Hours Digital: 20 Hours (5: 5: 90 working cycle, high power transmission) |
| Size (H x W x D) | 100×54.5×37.5mm (without antenna) |
| Weight | 270g |
| Vocoder | AMBE++ |
| Bluetooth | BT2.1+EDR / 4.0 (optional) |
| Location | GPS / Glonass (optional) |
| Man down / Vibration | Support |
| Encryption | Support 40bit basic encryption; 128/256bit AES encryption is optional |

| 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 Resistance | IP68 |
| Reliability | MIL-STD-810G |

| GPS | |
|--|------|
| Accuracy specs are for long-term tracking (95th percentile values >5 satellites 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 |

General Disclaimer
The specifications in this document are in accordance with the applicable standard test. Due to the continuous technology development, Caltta may change the specifications without timely notice.
* To realize 64 channel capacity and 4 zone capacity, users need to upgrade the firmware to V5.0 or above.



Professional Digital Radio

Small in Size, Huge in Performance



MODEL PH600

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Features



Compact Design

Only 270g(antenna and battery included) in weight and 100mm in height. Portable and easy to operate. The surface is designed with anti-slip texture, making it comfortable to hold and anti-slip even in wet environments.



Digital-and-analog Compatible

Digital-and-analog compatible, PH600 realizes the smooth evolution of the system. It also supports digital direct/repeater dual-time slots and automatic cross-site roaming.



IP68 Protection

IP68 rated, PH600 is resistant to water and dust, ensuring normal operation in extreme environments.



Full Encryption

Support 40bit basic encryption. 128/256bit AES encryption are optional. It also supports lone worker, alarm, man-down and other functions to protect users' safety.



Large-capacity Battery

With the 2600mAh large-capacity battery and digital power reduction technology, PH600 can work for at least 20 hours in digital mode(5:5:90), meeting the needs of long work shifts.



Loud and Clear Voice

With a 2W speaker and optimized audio design, PH600 ensures clear communication even in a noisy environment.



Complete Services

In addition to basic DMR voice and data services, PH600 also supports many optional features such as GPS/BDS, Bluetooth, VOX, etc.



Military Standard

MIL-STD-810G rated, PH600 is resistant to dropping and shocks at various levels.

Scenarios



Accessories

Standard



Desktop Charger



2600mAh Li-ion Battery



Power Adapter



Antenna



Belt Clip

Optional



8-way Charger



Bluetooth Earphone



Bluetooth PTT Ring



Transparent Tube Earphone



C-Style Earphone



Remote Microphone



Programming Cable

Specification

| General | |
|--|--|
| Digital Protocol | ETSI TS102 361-1, -2, -3, -4(optional) |
| Frequency | UHF1: 400-470MHz UHF3:350-400MHz VHF: 136-174MHz |
| Channel Capacity | 1024 |
| Zone Capacity | 64 |
| Channel Spacing | 12.5kHz/20kHz/25kHz |
| Frequency Stability | ±0.5ppm |
| Operating Voltage | 7.4V |
| Battery Capacity | 2600mAh(standard) |
| Battery Life | Analog: 16 Hours Digital: 20 Hours (5: 5: 90 working cycle, high power transmission) |
| Size (H x W x D) | 100×54.5×36.5mm (without antenna) |
| Weight | 290g |
| Screen | 1.75-inch transflective LCD, 240×180 |
| Vocoder | AMBE++ |
| Bluetooth | BT2.1+EDR / 4.0 (optional) |
| Location | GPS / Glonass (optional) |
| Man down / Vibration | Support |
| Real-time Clock | Support |
| Encryption | Support 40bit basic encryption 128/256bit AES encryption is optional |
| 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 Resistance | IP68 |
| Reliability | MIL-STD-810G |
| GPS | |
| Accuracy specs are for long-term tracking (95th percentile values >5 satellites 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) | 0.18uV(12dB SINAD) |
| Sensitivity (Digital) | 0.18uV (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 | 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 |
| Rated Audio Distortion | ≤3% (typical value) |
| Audio Response | +1~3dB (TIA603D) |
| Conducted Spurious Emission | -57 dBm (TIA603D) |
| Transmitter | |
| Power Output | 1W/4W (UHF1/UHF3), 1W/5W (VHF) |
| FM Modulation | 12.5KHz: 11K0F3E / 20KHz: 14K0F3E / 25KHz: 16K0F3E |
| 4FSK Digital Modulation | 12.5KHz Data Only: 7K60F1D&7K60F2D 12.5KHz Voice Only: 7K60F1E&7K60F2E 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 | ≤3% (typical value) |
| Audio Response | +1~3dB(TIA603D) |



Privacy Statement:
Caltta Technologies is a leading provider of comprehensive critical communication solutions and committed to protecting personal data in accordance with applicable laws and regulations and with technologies including anonymization and data encryption and necessary security management measures.

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MODEL PH660

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Features

Full Encryption

Support 40bit basic encryption. 128/256bit AES encryption are optional. It also supports lone worker, alarm, man-down and other functions to protect users' safety.

Loud and Clear Voice

With a 2W speaker and optimized audio design, PH660 ensures clear communication even in a noisy environment.

Compact Design

Only 290g(antenna and battery included) in weight and 100mm in height. Portable and easy to operate. The surface is designed with anti-slip texture, making it comfortable to hold and anti-slip even in wet environments.

Military Standard

MIL-STD-810G rated, PH660 is resistant to dropping and shocks at various levels.

Large-capacity Battery

With a 2600mAh large-capacity battery and digital power reduction technology, PH660 can work for at least 20 hours in digital mode(5:5:90), meeting the needs of long work shifts.

Complete Services

In addition to basic DMR voice and data services, PH660 also supports many optional features such as GPS/BDS, Bluetooth, VOX, etc.

Digital-and-analog Compatible

Digital-and-analog compatible, PH660 realizes the smooth evolution of the system. It also supports digital direct/repeater dual-time slots and automatic cross-site roaming.

IP68 Protection

IP68 rated, PH660 is resistant to water and dust, ensuring normal operation in extreme environments.

Scenarios



Hotel



Scenic Spot



Hospital



School

Accessories

Standard



Desktop Charger



2600mAh Li-ion Battery



Power Adapter



Antenna

Optional



8-way Charger



Bluetooth Earphone



Bluetooth PTT Ring



Transparent Tube Earphone



C-Style Earphone



Remote Microphone



Programming Cable

| General | |
|--|--|
| Digital Protocol | ETSI TS102 361-1, -2, -3, -4(optional) |
| Frequency | UHF1: 400-470MHz UHF3: 350-400MHz VHF: 136-174MHz |
| Channel Capacity | 1024 |
| Zone Capacity | 64 |
| Channel Spacing | 12.5kHz/20kHz/25kHz |
| Frequency Stability | ±0.5ppm (Max) |
| Operating Voltage | 7.4V |
| Battery Capacity | 2600mAh(standard) Li-ion |
| Battery Life | Analog: 16 Hours Digital: 20 Hours (5: 5: 90 working cycle, high power transmission) |
| Size (H x W x D) | 126×54.5×36.5mm (without antenna) |
| Weight | 326g (with antenna, battery & belt clip) |
| Screen | 2.0-inch LCD, 240×320, 6-line text |
| Vocoder | AMBE++ |
| Bluetooth | BT2.1+EDR / 4.0 (optional) |
| VOX | Support |
| Location | GPS / Glonass (optional) |
| Man down / Vibration | Support |
| Real-time Clock | Support |
| Encryption | Support 40bit basic encryption; 128/256bit AES encryption is optional |
| Programmable Keys | 3 |
| Antenna Length | ≤16 cm |
| 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 Resistance | IP68 |
| Reliability | MIL-STD-810G |
| GPS | |
| Accuracy specs are for long-term tracking (95th percentile values >5 satellites 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 |



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Privacy Statement: Caltta Technologies is a leading provider of comprehensive critical communication solutions and committed to protecting personal data in accordance with applicable laws and regulations and with technologies including anonymization and data encryption and necessary security management measures.

Professional Digital Radio

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MODEL PH690

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Features



Full Encryption

Support 40bit basic encryption. 128/256bit AES encryption are optional. It also supports lone worker, alarm, man-down and other functions to protect users' safety.



Excellent Appearance

The 2.0-inch LCD screen and full keyboard bring users a richer operating experience.



Large-capacity Battery

With a 2600mAh large-capacity battery and digital power reduction technology, PH690 can work for at least 20 hours in digital mode(5:5:90), meeting the needs of long work shifts.



Loud and Clear Voice

With a 2W speaker and optimized audio design, PH690 ensures clear communication even in a noisy environment.



Complete Services

In addition to basic DMR voice and data services, PH690 also supports many optional features such as GPS/BDS, Bluetooth, VOX, etc.



Military Standard

MIL-STD-810G rated, PH690 is resistant to dropping and shocks at various levels.



Digital-and-analog Compatible

Digital-and-analog compatible, PH690 realizes the smooth evolution of the system. It also supports digital direct/repeater dual-time slots and automatic cross-site roaming.



IP68 Protection

IP68 rated, PH690 is resistant to water and dust, ensuring normal operation in extreme environments.



Scenarios



Hotel



Scenic Spot



Hospital



School

Accessories

Standard



Desktop Charger



2600mAh Li-ion Battery



Power Adapter



Antenna



Belt Clip

Optional



8-way Charger



Bluetooth Earphone



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Transparent Tube Earphone



C-Style Earphone



Remote Microphone



Programming Cable