

Technical Specifications

General	
Frequency	UHF1: 400-470MHz UHF3: 350-400MHz VHF : 136-174MHz
Channel Capacity	1024
Zone Capacity	64 (Maximum 32 groups per area)
Channel Spacing	12.5kHz/20KHz/25KHz
Frequency Stability	±0.5ppm
Operating Voltage	7.4V
Battery Capacity	2000mAh (Standard) 3200mAh (Optional, high-capacity) 2600mAh (Optional, for low temperature)
Battery Life	Analog:13 hrs (5:5:90 duty cycle, high-power Tx) Digital: 16 hrs (5:5:90 duty cycle, high-power Tx)
Size (H×W×D)	130*54.5*37.4mm
Weight	about 360g (with the Antenna and Battery)
Screen	2.0" Transflective LCD, 240×320, 6 Lines
Vocoder	NVOC / AMBE++Vocoder
Real Time Clock	Support
VOX	Support
Man down	Support
Vibration	Support
Call Recording	Optional, 250 hours
Bluetooth	Bluetooth chip, bluetooth audio and PTT equipment
Location	Beidou/GPS
Encryption	Support

Environmental	
Operating Temperature	-30℃ ~ +60℃ (Standard /high capacity battery) -40℃ ~ +60℃ (Low-temperature battery)
Storage Temperature	-40℃ ~ +85℃
ESD	IEC 61000-4-2 (level 4) ±8KV (Contact) ±15KV (Air)
Dust and Water Resistance	IP68
Reliability	MIL-STD-810 G

The specifications in this document are in accordance with the applicable standard test. There are a number of factors that could cause the actual results. Due to the continuous development of technology, Catta may change the information at any time without notice.

DMR 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 or Desensitization	97dB(TIA603D)
	94dB(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)

DMRTransmitter	
Low Power Output	1 W
High Power Output	4W(UHF1 /UHF3)/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	≤3% (Typical)
Audio Response	+1~-3dB(TIA603D)

Beidou/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	< 60 s
TTFF (Time To First Fix) - Hot Start	< 10 s
Horizontal Accuracy	< 10 m



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DMR Portable Radio

Professional Choice Brings Reliable Experience



MODEL PH790

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Features

Digital and Analog Compatible, Rich Services

GH900 supports DMR digital conventional/trunking standards, and compatible with analog conventional and MPT trunking. It provides double channel capacity through dual time slots, and supports conventional, ad-hoc and trunking networking. With BlueTooth, Beidou/GPS, man-down alarm, call recording, vibration prompt, VOX and other functions, it meets the needs of different scenarios in all walks of life.

High-definition Large Screen, Visible in Strong Light

The 2.0-inch semi-transparent high-definition large screen is clearly visible in strong light. 240 * 320 high resolution supports 6-line text display, and displays rich information such as signal strength, power, real-time clock, group information. And the full numeric keypad makes the operation fast and simple.

Digital Audio, Clear and Loud

2W high-power loudspeaker, combined with excellent sound chamber and noise reduction design, brings a clear and loud voice with no fear of noisy environments.

IP68 Protection, Military Standard Quality

With IP68-level protection, GH900 is not afraid of rain, water immersion and dust. It has passed the certification of the American Military Standard MIL-STD-810G, and can deal with severe conditions such as shock and vibration.

High-capacity and Power-saving, Long-lasting Battery Life

The standard 2000mAh battery combined with the power-saving design of digital technology ensures that the radio can be used for more than 16 hours under high power (5:5:90 mode) to meet the long-term work needs of front-line personnel. The optional 3200mAh high-capacity battery or 2600mAh low-temperature battery can also be selected to meet the needs of special scenarios.

Software and Hardware Encryption Protect User Security

GH900 provides 40-bit basic audio encryption and supports AES128/256-bit high-level software encryption or TF card hardware encryption to ensure communication security. It provides functions such as lone worker, emergency alarm, and man-down alarm to protect users' operation security.



Application Scenarios



Public Safety



Police



Major Events



Urban Fire Fighting



Forest Fire Fighting



Emergency Rescue

Accessories

Standard					
					
Desktop Charger	2000mAh Lithium Battery	Power Adaptor	Belt Clip	Antenna	Hand Rope
Optional					
					
8-way Charger	PTT Shoulder Microphone	Transparent Acoustic Tube Earpiece	C-Style Earpiece	BlueTooth Headset	
					
BlueTooth PTT	3200mAh High-capacity Battery	2600mAh Low-temperature Battery	Programming Cable		

After-sales Services

With abundant technologies and a highly specialized technical team, Caltta is able to provide users with high-quality products, tailored solutions, and perfect after-sales services. Having undergone strict factory tests, each product provided by Caltta can meet communication requirements in harsh and dangerous environments and provide users with secure, reliable, and efficient communication. Meanwhile, Caltta also provides users with professional pre-sales and after-sales technical support, comprehensive technical documentation and training services, professional remote telephone support, local after-sales service, active software maintenance, software updates, etc. All-round services bring a worry-free user experience all the way.