Specification

General

Private network LTE	DMR/Analog trunking and conventional mode Public network LTE/WCDMA/GSM
Frequency	DMR/Analog: 400-470M (UHF1) TDD: B38/B39/B40/B41 FDD: B1/B3/B5/B7/B8 WCDMA: B1 GSM: B2/B3/B5/B8
Size (H x W x D)	150*68*27mm (with standard battery)
Weight	About 390g
Screen	Main: 4.0 inch color LCD, 800×480, glove operation Top: 0.9 inch B&W LCD, 128x64
Key	PTT, Power, Dial, Hang up, Programmable×3, Android virtual key×3, SOS
Battery	30.4Wh (4000mAh, 7.6V)
External Interface	18pin waterproof contact interface (for USB2.0, audio, serial port)
Operation System	and secure OS (based on Android)
CPU	Quad-core 2.3GHz processor
Memory (RAM+ROM)	3GB+128GB
External Memory	Support TF, Up to 128GB
Camera	Rear: 13M Pixels, auto focus, CMOS, with flash Front: 13M Pixels, fixed focus, CMOS
Bluetooth	Bluetooth 2.1+EDR/4.0
WLAN	Wi-Fi 802.11 b/g/n, 2.4G, Wi-Fi Hotspot
Location	Beidou/GPS, support AGPS
NFC	Support
Speaker	Front: 30×40mm professional speaker
Microphone	Support multi-mic noise reduction
Sensor	Gravity, distance, light, gyroscope, geomagnetic
Card Slot	public SIM x 1, encryption x1, TF x 1
Charging	Desktop charger, high-power multi-unit charger
OTG	Support, expandable USB drive-free camera and other devices
Power Management	Standard battery: 17 hours: 15-hours DMR voice (5: 5: 90)+2 hours video upload 21 hours: 19-hours DMR voice (5: 5: 90)+2 hours video online playback (Notes: The working time is based on laboratory testing results, excluding power consumption services such as GPS reporting. The actual usage time of users may vary depending on the scenario)
Multimedia	Video recording: 3GP, max 1080P, 30fps Audio recording: AMR Audio format: MIDI/AMR/MP3/AAC+/QCP/WAV/WMA Video format: MP4/H263/H264/3GP, max 1080P, 30fps

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 notice.

Receiver

Sensitivity (Analog)	0.18uV(12dB SINAD)
Sensitivity (Digital)	0.18uV (5% BER)
Adjacent Channel Selectivity	60dB@12.5KHz/70dB@20/25KHz (TIA603A) -1T
	60dB@12.5KHz /70dB@20/25KHz (ETSI)
Intermodulation	70dB (TIA603D)
	65dB (ETSI)
Spurious Rejection	70dB (TIA603D)
	70dB (ETSI)
Blocking	97dB(TIA603D)
	94dB(ETSI)
Co-channel Rejection	-12~0 dB @12.5KHz/-8~0 dB @20/25KHz
FM Noise	40dB (Min)
Rated Audio Power	0.5W
Max Audio Power	2.0W
Audio Distortion	≤3% (Max)
Audio Response	+1~-3dB (TIA603D)
Conducted Spurious Emission	-57 dBm (TIA603D)

Transmitter

Power Output (low Tx)	1 W
Power Output (high Tx)	4W
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 Limitation	±2.5KHz @12.5KHz /±4KHz @20KHz /±5.0KHz @25KHz
FM Noise	40dB (Min)
Adjacent Channel Power	60dB@12.5KHz, 70dB @20/25KHz
Audio Distortion	≤3% (Max)
Audio Response	+1~-3dB(TIA603D)

Environmental

Operating temperature	-20°C — +60°C
Storage temperature	-40°C ~ +85°C
ESD	IEC 61000-4-2 (level4)±8kV (Contact)±15kV (Air)
Dust and Water Resistance	IP68
Reliability	MIL-STD 810 G

Caltta

Dual-Mode Smart Radio

Industry's First Dual-mode Dual-screen Smart Radio

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| MODEL | GH900 |

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Features

Exquisite and Portable

Only 390g in weight(including 4000mAh high-capacity battery and antenna) and 27mm in thickness, GH900 is easy and comfortable to hold. With the belt clip, it can be held or hung on the waist.

Professional Industrial Design

GH900 provides simple operation method with a 4.0-inch main screen, a 0.9-inch secondary screen for information display, a big-size key, a knob, and also smart applications.

Dual-mode Design

As the industry's first dual-mode radio, GH900 fully supports narrowband DMR trunking, broadband LTE trunking and eChat PoC system.

High-resolution Cameras

The front and rear cameras are both 13 million pixels, helping capture clear and stable videos and sharp pictures anytime and supporting high-quality and efficient video PTT services.

Professional Audio

Adopting a triple-MIC noise reduction design, a built-in 2W high-power speaker, and a professional front sound chamber, GH900 provides a loud and clear voice in any environments.

Durable and Rugged

IP68 standard and MIL-STD 810G rated, GH900 is resistant to water, dust and multi-level dropping, ensuring normal operation in extreme environments.

Scenarios

Public Safety

Police

Large-scale Events

Fire Fighting

Emergency

Transportation

Accessories

Standard

| Desktop Charger | 4000mAh Battery | Power Adapter | Belt Clip | Antenna |

Optional

| 8-way Charger | Remote Speaker | C-Style Earpiece | Programming Cable | Hand Rope |

Bluetooth PTT Ring

Caltta **CALTTA TECHNOLOGIES CO.,LTD.**