



GH960S

Dual-mode Digital Trunking Radio

Smart Dual-mode | Empower Operations | Professional Benchmark

Highlights

Smart Dual-mode Public and Private

Highly integrated professional public-private dual-mode solution provides full compatibility with DMR digital trunking systems and eChat public network trunking services.

Compact and portable Excellent Grip

290g lightweight build. 50mm body width (more compact than traditional radios) for easy one-hand use. An optional belt clip and a rotating back clip are available, supporting multiple wearing options.

Audio Cancellation Clear and Loud

Compact size with powerful volume; equipped with a 2.5W high-power speaker, combined with an excellent structural sound cavity and noise reduction design, it ensures clear voice pickup and loud external playback, performing reliably even in noisy environments.

Long-lasting Battery Cold Resistant

A standard 2500mAh@7.7V high-capacity battery; combined with deep power-saving design, it delivers long-lasting endurance. An optional 2700mAh@7.2V high-capacity battery; this battery has withstood the -30°C extreme cold environment during the Beijing Winter Olympics.

One-number Dual-network Always Online

With an innovative unified trunking identity mechanism, a single trunking ID enables dual-network roaming between DMR and eChat trunking. The radio autonomously evaluates networks and selects the best one for calls, guaranteeing constant online connectivity.

Deep Integration Seamless Switching

Centered on the one-number dual-network solution, deep integration across multiple layers (including hardware, identity, interaction, and services) enables imperceptible network switching and delivers a smooth, unified user operation experience.

Intelligent Platform Security Reinforcement

Equipped with police-grade secure OS, the professional high-performance intelligent main control platform offers ultra-low latency and rapid response, and incorporates industry-first one-card dual-encryption for DMR and eChat trunking call security.

IP68 Rating Military-Standard

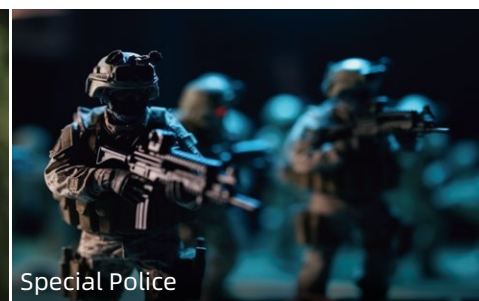
IP68 dust/water resistance defends against rain/immersion /dust; MIL-STD-810H ensures reliable performance under shock and vibration.



Application Scenarios



Public Safety



Special Police



Urban Firefighting



Emergency Rescue



Forest Firefighting



Airports and Ports

Accessories

Standard



Antenna



2500mAh
Li-ion Battery



Desktop Charger



Power Adapter



Belt Clip



Hand Rope



Accessory
Lanyard

Optional



OTG Data
Cable



2700mAh
Low-temperature
Li-ion Battery



8-way
Charger



C-type
Earphone



Transparent
Tube-type
Earphone



Wired RSM



Rotatable
Back Clip



Programming
Cable

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

Address: 12F/Building G2, International E-City, Nanshan, Shenzhen, China

Web: <https://en.caltta.com/> E-mail: sales@caltta.com Post: 518052

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.



Specifications

General		
Network Mode		DMR/LTE
Frequency	DMR	UHF3: 350-400MHz
	LTE	TDD B38/B39/B40/B41 FDD B1/B3/B5/B8
Channel Capacity		1024
Zone Capacity		64
Channel Spacing		12.5kHz/20KHz/25KHz
Frequency Stability		±0.5ppm
Size(HxWxD)		About 123mm × 50mm × 33mm (With battery, without antenna)
Buttons		Front: Full numeric keypad Side: PTT key, Programmable key ×2 Top: SOS key Knob:Group selection/Volume control
Weight		About 290g(With battery and antenna)
Screen		1.78-inch OLED screen,448×368
Battery		Standard 2500mAh @ 7.7V battery Optional 2700mAh @ 7.2V low-temperature battery
Operating System		Deeply customized android system
CPU		Octa-core A53 processor
Memory (RAM+ROM)		4GB+64GB
Audio		Front 36mm high-power speaker ×1,Earpiece ×1, Microphonex3 (Noise reduction with dual microphones)
Camera		Rear: 13MP, AF, CMOS, with flash
External Interface		18pin waterproof contact (Supports USB2.0, Audio, Serial port)
Bluetooth		BT2.1+EDR/4.0
WLAN		Wi-Fi 802.11 b/g/n, 2.4G, Wi-Fi hotspot
Location		GPS
Extended Memory		TF card, up to 128GB
Card Slot		NANO SIM × 1, TF ×1
Sensor		Gravity, Light
Charging		Desktop charge/Line charge
OTG		Supports expandable connectivity with driver-free USB devices

Environment	
Operating Temperature	-20°C ~ +60°C(Standard battery) -33°C ~ +60°C (Low-temperature battery)
Store Temperature	-40°C ~ +85°C
ESD	IEC 61000-4-2 (Level 4) ±8KV (Contact) ±15KV (Air)
Water and Dust Proof	IP68
Reliability	MIL-STD-810 H

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) 60dB@12.5KHz /70 dB@20/25KHz (ETSI)
Intermodulation	70 dB (TIA603D) 65 dB (ETSI)
Spurious Rejection	70 dB (TIA603D) 70 dB (ETSI)
Blocking	97dB(TIA603D) 94dB(ETSI)
Co-channel Rejection	-12~0 dB @12.5KHz/-8~0 dB @20/25KHz
FM Noise	-40 dB@12.5KHz /-43 dB@20KHz/ -45 dB@25KHz
Rated Audio Power	0.5W
Max Audio Power	2.5W
Audio Distortion	≤3%
Audio Response	+1 ~ -3dB (TIA603D)
Conducted Spurious Emission	-57 dBm (TIA603D)

DMR Transmitter	
Low Power Output	1W
High Power Output	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	-40 dB@12.5KHz /-43dB@20KHz/ -45 dB@25KHz
Adjacent Channel Power	60 dB@12.5KHz /70 dB @20/25KHz
Audio Distortion	≤3%
Audio Response	+1 ~ -3dB(TIA603D)

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, Callta may change the specifications without notice.