



Caltta[®]

GH900R

LTE Dual-Mode Radio

GH900R is a rugged dual-mode smart radio that runs on private LTE and 400 MHz narrowband DMO, delivering continuous broadband trunking services and dependable DMO communications where network coverage is unavailable.



Outstanding Performance



Supreme Quality

Highlights



Exquisite and Portable

Only 380g in weight (including 4000mAh high-capacity battery and antenna) and 27mm in thickness. The GH900R is comfortable to hold, and with its belt clip, it can be clipped to your waist.



Professional Industrial Design

The GH900R features intuitive operation, equipped with a 4.0-inch display, large-size keys, a knob and smart applications.



High-resolution Cameras

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



Dual-mode Design

The GH900R features dual-mode operation: narrowband DMO & broadband private LTE. Certified by national authoritative testing institutions, it delivers powerful professional intercom performance and excellent compatibility, enabling flexible on-demand connectivity.



Professional Audio

Featuring triple-MIC noise reduction, a built-in 2W high-power speaker and a professional front sound chamber, the GH900R ensures loud, clear audio in all environments.



Durable and Rugged

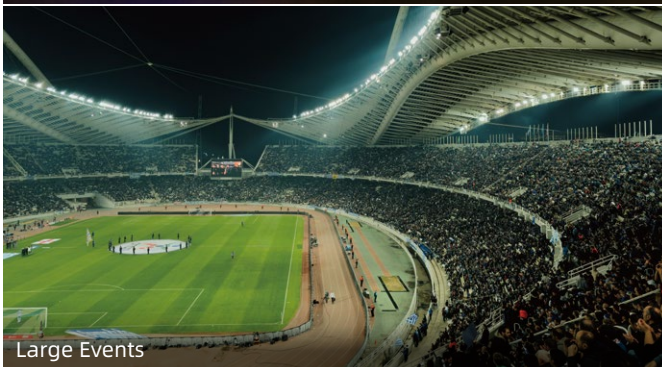
Compliant with IP68 and MIL-STD-810G standards, the GH900R withstands water, dust and multiple drops, maintaining stable performance in extreme conditions.



Scenarios



Public Safety



Large Events



Fire Fighting



Emergency Response



Transportation

Accessory

Standard



Hand Rope



Belt Clip



Antenna



4000mAh Battery



Desktop Charger



Power Adapter

Optional



Programming Cable



3000mAh Low-temperature Battery



Types of Earpieces



Remote Speaker



Types of Cameras

Specifications

General		Environmental	
Network Support	Private network LTE Narrowband DMO	Operating Temperature	-20°C~+60°C
Frequency Band	Private network LTE: TDD 1.8G (1785~1805MHz) TDD 1.4G (1447~1467MHz) DMO:400-470MHz	Storage Temperature	-40°C~+85°C
Dimension (HxWxD)	150x68x27mm (excluding antenna)	ESD	IEC 61000-4-2 (level 4) ±8kV (contact discharge) ±15kV (air discharge)
Weight	About 380g (with antenna and standard battery)	Dust and Water Resistance	IP68
Maximum Tx power	4W	Reliability	MIL-STD-810G
Display	4.0-inch high-definition LCD, 800x480, supports glove operation	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 prior notice.	
Key	PTT key, power key, dial key, hang-up key, programmable physical keys x3, Android virtual keys x3, SOS key		
Battery	30.4Wh (4000mAh, 7.6V) Charge and discharge cycles: 500 cycles (Retention: ≥80%) at 0.5C		
External Interface	18pin waterproof contact interface (supporting USB2.0, audio, serial port)		
Operating System	Deeply customized intelligent security operating system (based on Android 13)		
CPU	6nm high-performance octa-core processor		
Memory (RAM+ROM)	6GB+128GB		
Camera Head	Rear camera: 13MP, supports 1080P/25FPS camera, auto focus and auto white balance, CMOS, with flash Front camera: 13MP, fixed focus, CMOS, supports VGA/1080P/25FPS video recording		
Bluetooth	Support		
WLAN	Wi-Fi 802.11b/g/n, 2.4G/5G		
NFC	Support 13.56M		
Positioning	GPS		
Loudspeaker	Front 30x40mm professional diaphragm speaker		
Microphone	Support multi-microphone noise reduction		
Sensor	Gravity, proximity, gyroscope, light, geomagnetic		
OTG	Support, expandable USB drive-free camera and other devices		
Card Holder	Private network SIM card holder x1, TF memory card holder x1		
Charging Method	Desktop or multi-way charge		
Interface Language	English/French/Portuguese/Chinese		



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