OG308

ULTRA-SLIM
### Commercial DMR Radio

DMR
DIGITAL MOBILE RADIO ASSOCIATION

VOL +

VOL −

BelFone
Communications for Efficiency and Safety

PRODUCT OVERVIEW

OG308 adopts a lightweight and modern design, bringing new possibilities and trends in the commercial radio field. Apart from the fashionable and simple appearance with a sense of technology, it also has excellent communication performance such as AI noise reduction, data encryption, and channel copy, etc. as well as special features such as APP programming, Bluetooth application, voice broadcast, etc. OG308 is equipped with 2200mAh battery, which can be used continuously for 16 hours, bringing the ultimate communication experience for commercial users.
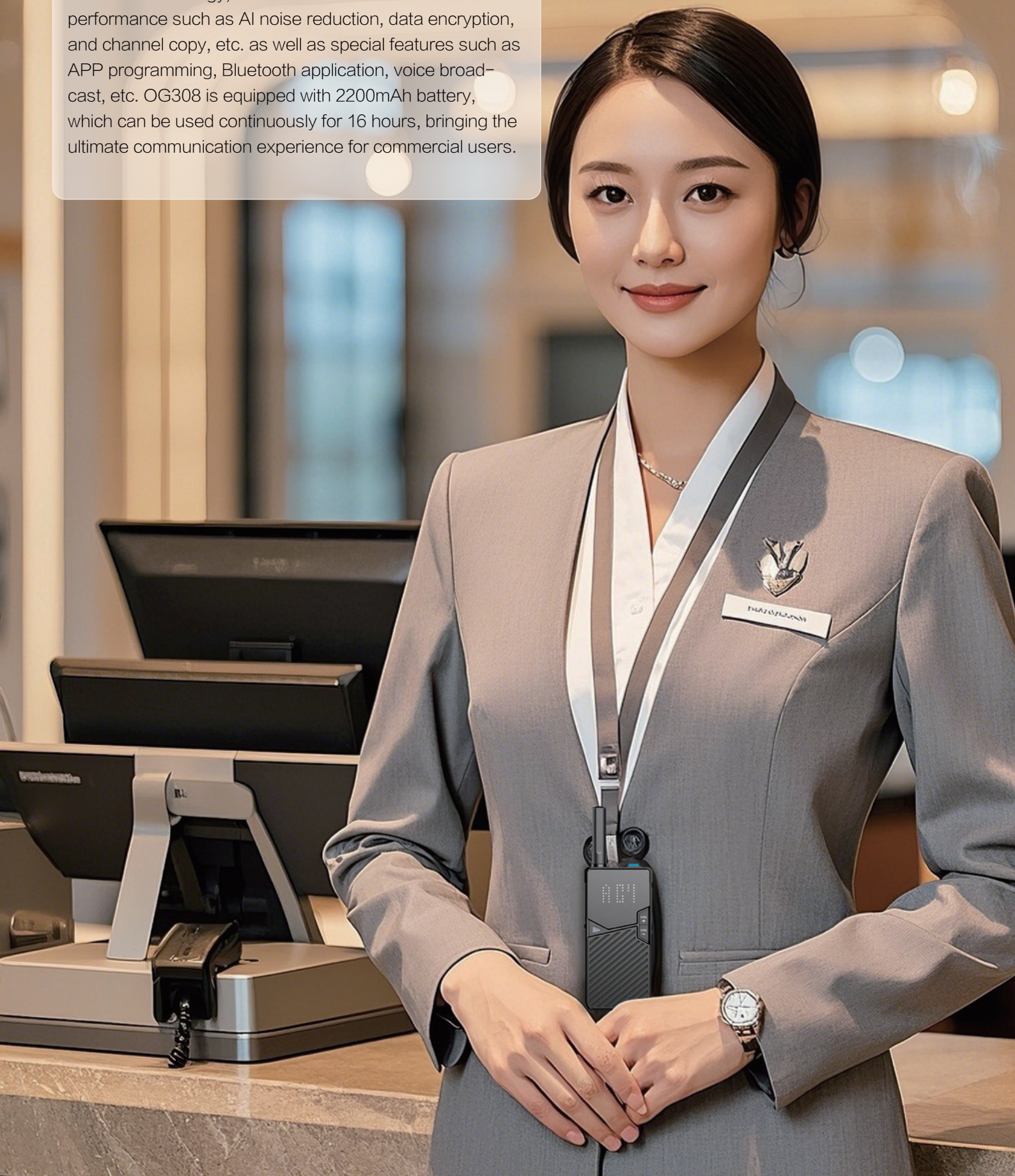
Ultra-Slim Design

OG308 adopts a lightweight design with only 15mm and 140g. The overall appearance of fashionable simplicity and sleek lines effectively reduces the radio's heavy feeling and enhances its portability, even if a child can easily operate it.

Hidden Display

OG308 adopts the integrated design of the rest screen, equipped with an LED matrix display to balance the aesthetic. Meanwhile, it can more intuitively show the terminal status, even if the outdoor activities or messy light scenarios can still easily recognize the working status.

AI Noise Reduction

OG308 uses the AI algorithm to recognize and separate the human voice and noise, processing audio signals in real-time and filtering the environment's noise effectively, to guarantee crystal clear communication in various complicated scenes.

Wide Coverage

OG308 is equipped with high-power RF, which can not only realize the urban calls but also ensure the clear and stable communication effects in various complex environments. No matter in outdoor adventure, construction site operation, or shopping mall dispatching, OG308 always can meet the user's needs for communication distance and clarity to achieve barrier-free communication.

Channel Copy

Having a farewell with the complicated frequency matching via computer, OG308 can copy another frequency channel within seconds with the channel copy function, which can rapidly organize multi-user communication at the same time under the same frequency.

Emergency Alarm

During emergencies, the emergency alarm of OG308 will send the alerting signal and the locations in time to guarantee personnel safety and make a rapid and coordinated response in critical situations.

Bluetooth Connection

OG308 supports Bluetooth 5.0, which allows you to connect mobile phone APP for frequency adjustments and terminal settings. Bluetooth wireless earphones, headsets, and other peripherals are also used for audio transmission and real-time calls.

VOX

OG308 is designed for situations like driving vehicles, outdoor activities, or hands needed to operate other devices. After turning on VOX, users can still talk with no need to press the PTT button, so users can free their hands and communicate more freely.

GENERAL FUNCTIONS

- Voice Broadcast
- Busy Channel Lockout
- Compatible Digital/Analog
- Private Call/ Group Call/ All Call

- Squelch Level
- IP54 Protection
- Power Switching
- Type-C Charging

- Radio(FM)
- Battery Indicator
- Scanning/ Monitoring
- Silence Unknown Calls

SPECIFICATION

General	
Frequency range	UHF:400-480 MHz
Channel capacity	≤ 125
Zone	1
Channel spacing	12.5KHz/25KHz
Operating voltage	DC 3.8V
Battery capacity	2200mAh
Battery Life (5/5/90)	Digital 15 hours Analog 10 hours
Frequency stability	± 0.5ppm
Antenna impedance	50 Ω
Current	Receiving: 400mA Transmitting: 2500mA
Dimensions (L × W × H)	52.7 (L) *16.6 (W) *115 (H)mm
Weight	135.6g (including battery)
Bluetooth (optional)	BT5.0

Transmitter	
RF output power	≤ 4W
4FSK modulation	12.5kHz data only: 7K60FXD 12.5kHz data and voice: 7K60FXE
FM modulation	12.5 kHz: 8K50F3E; 25 kHz: 16KΦF3E
Modulation limiting	+/- 2.5kHz @ 12.5kHz; +/- 5kHz @ 25kHz
FM noise	-40dB
Transmission spurious	-36 dBm≤1GHz/-30 dBm≥1GHz
Adjacent channel power	≤-60dB
Audio response	+1/-3 dB
Digital protocol	DMR
Free time slot power	≤-57dBm
Digital voice coder type	AMBE3000

Receiver	
Digital sensitivity	5% BER: 0.25 uV
Analog sensitivity	0.25 uV (12 dB SINAD)
Intermodulation	65dB
Adjacent channel selectivity	60 dB
Spurious response rejection	70 dB
FM noise	-40dB
Audio response	+1/-3 dB
Audio output power	0.5W
Maximum audio output power	1W
Rated audio distortion	3%
harmonic suppression	≤-70dBm
IF rejection	≤-70dBm
co-channel rejection	≤-70dBm
image rejection	≤-70dBm
Conducted radiation	≤-57dBm
spurious radiation	≤-57dBm
Blocking	>84dBm

Environmental	
Operating temperature	-20℃—+60℃
Storage temperature	-30℃—+85℃
Dustproof and waterproof	IP54

STATEMENT:

1. Due to continuous product improvement, the technical parameters and functional features may not be consistent with the actual product. Please refer to the actual product. If there is any change, we will not notify you separately. Please understand.

2. If you have other questions about this product or the content of this document is not detailed enough, please contact us.

STANDARD ACCESSORIES

OPTIONAL ACCESSORIES
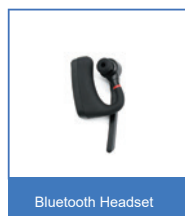
Stubby Antenna

Belt Clip

USB Cable

Bluetooth Headset

BelFone
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SGS ISO CE FC CCC

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