



DR-300A

Professional DMR Two-Way Radio

- DMO Dual Time-slot Communication
- Strong Anti-Interference Ability
- OLED Display
- VOX feature Release Hands
- Digital-Analog Compatibility
- Emergency Alarm
- AI-based Noise Cancellation
- GPS
- Bluetooth



Features:

DMO Dual Time-slot Communication, multiple efficiency
Realizes 2 talk paths on a frequency at the same time, multiply the efficiency and doubling the frequency utilization. Ensure real-time communication at peak service hours.

Digital voice, clear and loud

Digital Speech Error Correction Processing (AMBE+2™) enables voice with superior clarity and performance. Provide clearer voice quality than analog radios, regardless of the usage environment.

Emergency Alarm

Emergency alarms have the highest priority and can be used to send alarms to companions and the control center when an emergency situation is encountered.

High Capacity Li-poly Battery

Equipped with 2600mAh lithium polymer battery can work for up to about 25 hours to meet customers' working needs.

Military Quality, Stable and Reliable

The product is IP54 and MIL-STD-810 C/D/E/F/G compliant, the quality testing includes drop, high and low temperature, humidity, dustproof, and vibration, the product still functions properly in busy commercial service when accidental drops or showers.

Digital-Analog compatibility, Value-added experience
The function provides compatibility with existing conventional analog products or systems, to ensure a smooth transition from analog to digital products, thereby improving product utilization.

VOX feature, release hands

The special VOX voice-activated feature can be voice triggered to make calls with audio accessories, which is particularly suitable for users who can't operate the PTT button to make calls.

OLED Display, Easy and Flexible Operation

OLED display interface with visual icon display and humanized menu operation make reading and control more convenient and flexible.

Voice Encryption to Ensure Users' Communication Security

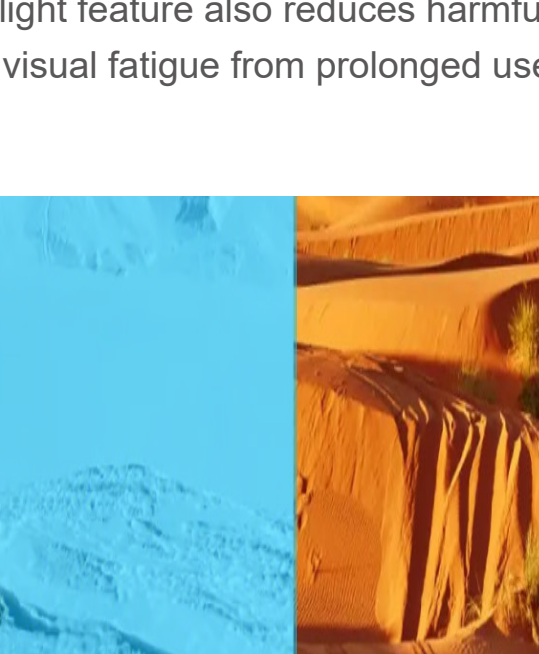
The function provides basic voice encryption to safeguard users' communication security.

More supplementary services to provide richer application experience

The hardware is newly upgraded to support a variety of services such as remote monitor, remote detection, call alert, remote kill, remote revive, etc., providing users with richer application experience.

OLED Display Advantages

The ultimate visual experience : Each pixel of the OLED display emits light independently, achieving near-perfect black and high contrast. Even under strong outdoor light, the signal information on the screen can still be clearly seen and will not be blurred due to reflection or excessive light.



High and low temperature resistance ensures all-day operation

Environmental adaptability : The OLED display operates stably in a wide temperature range and can work normally in an environment of -40 ° C to 85 ° C. Its low blue light feature also reduces harmful blue light radiation, which helps relieve visual fatigue from prolonged use



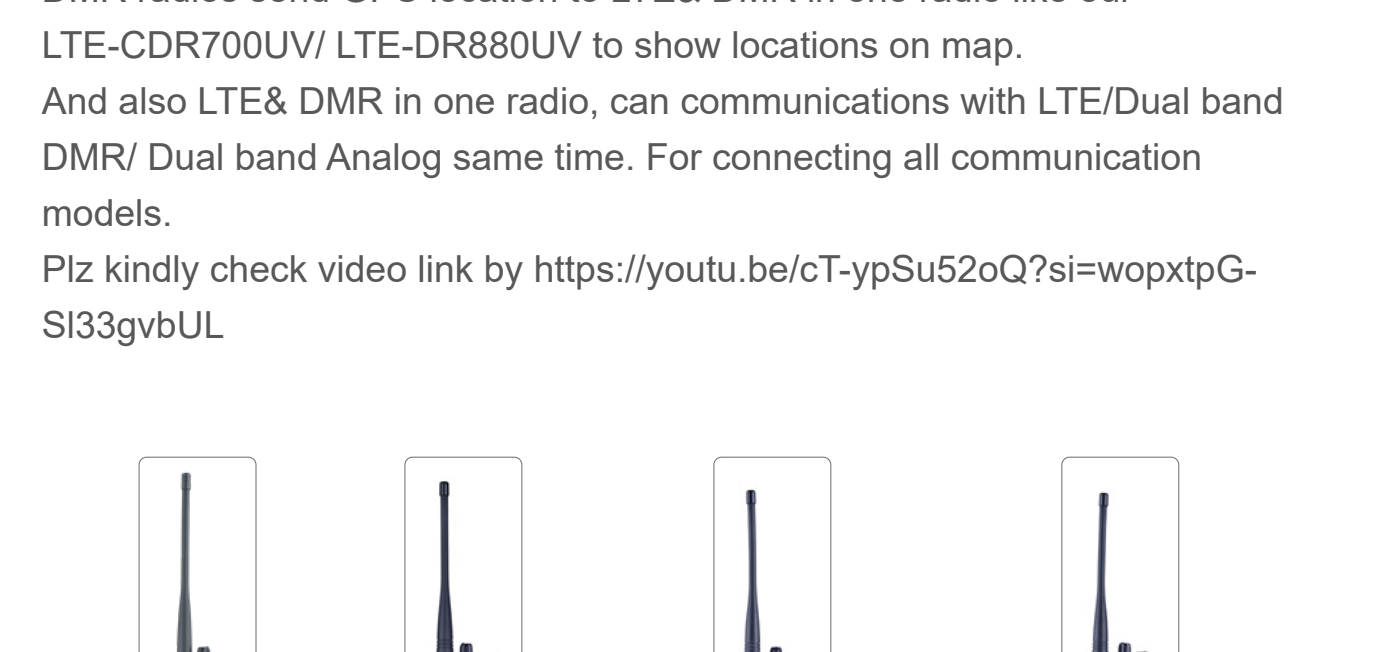
AI-based Noise Cancellation

The built-in 36mm diameter speaker and advanced AI-based Voice Recognition technology deliver louder, clearer audio by eliminating unwanted ambient noise, reducing distortion and suppressing whistling caused by other devices in close proximity to each other. Ambient noise will no longer slow down communications and users can hear and be heard wherever they are.



GPS positioning, your location Anytime, Anywhere

The built-in GPS module can receive satellite signals in real time to determine the precise location of the device. This is particularly important for scenarios such as team management, wilderness exploration, and emergency rescue. In emergency situations, the GPS positioning function can help quickly determine the specific location of the rescuers, improving the efficiency and safety of the rescue operation.

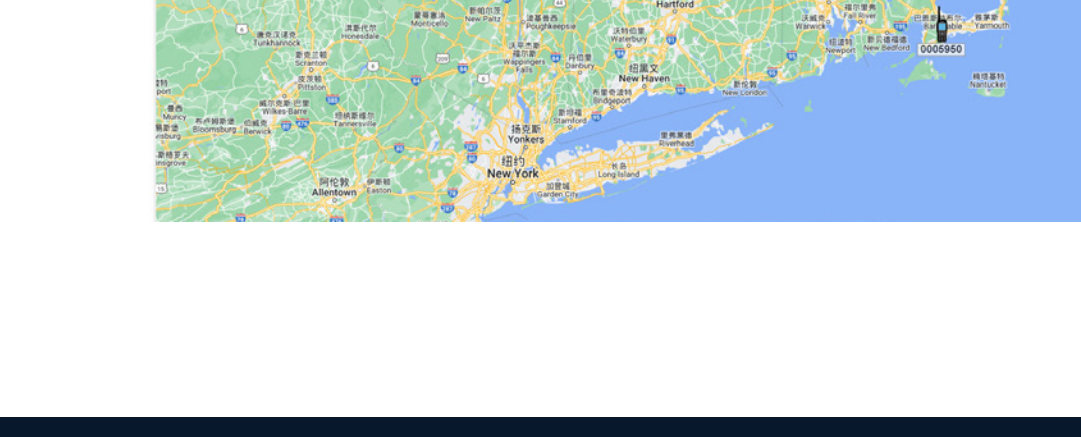


U-PoC self-build platform dispatching system can Tracking LTE and DMR radios send time.

DMR radios send GPS location to LTE & DMR in one radio like our LTE-CDR700UV/ LTE-DR880UV to show locations on map.

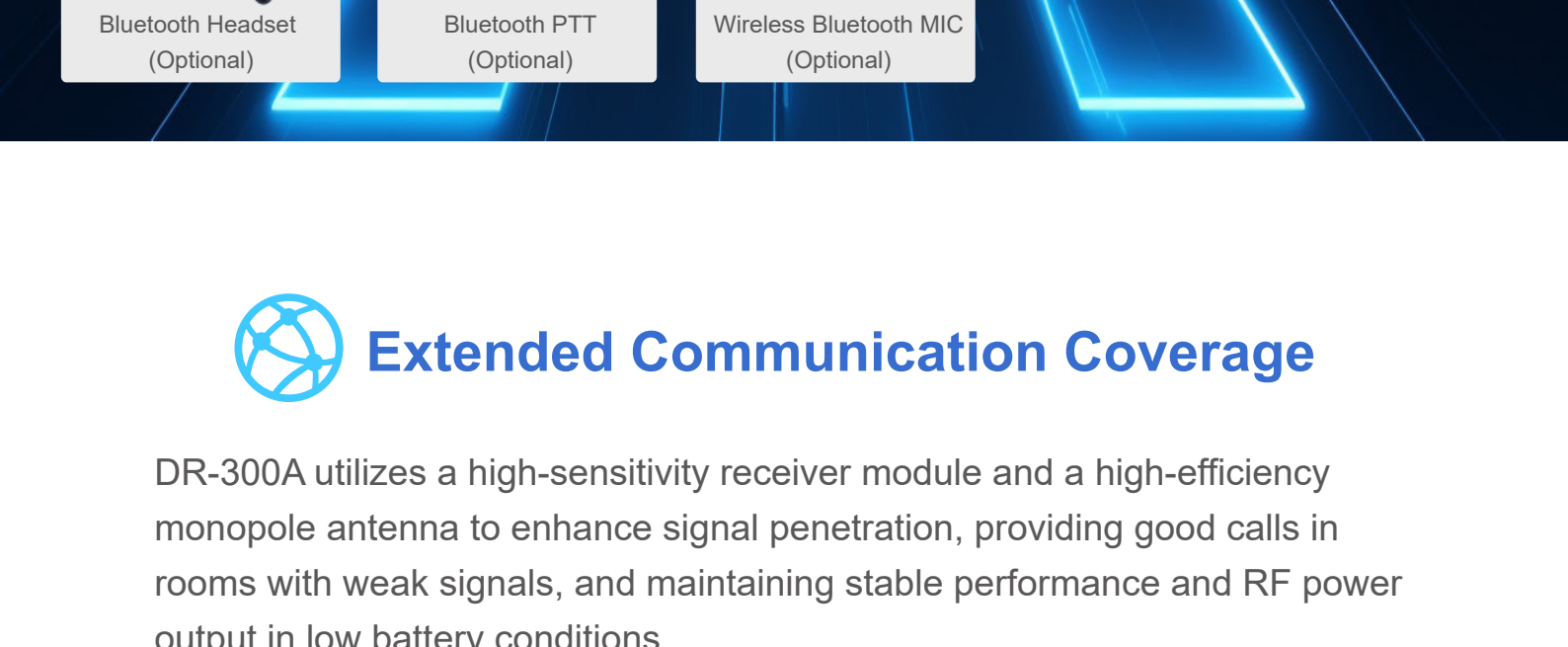
And also LTE & DMR in one radio, can communications with LTE/Dual band DMR/ Dual band Analog same time. For connecting all communication models.

Plz kindly check video link by <https://youtu.be/cT-ypSu52oQ?si=wopxtpG-Si33gvbUL>



Bluetooth 5.0

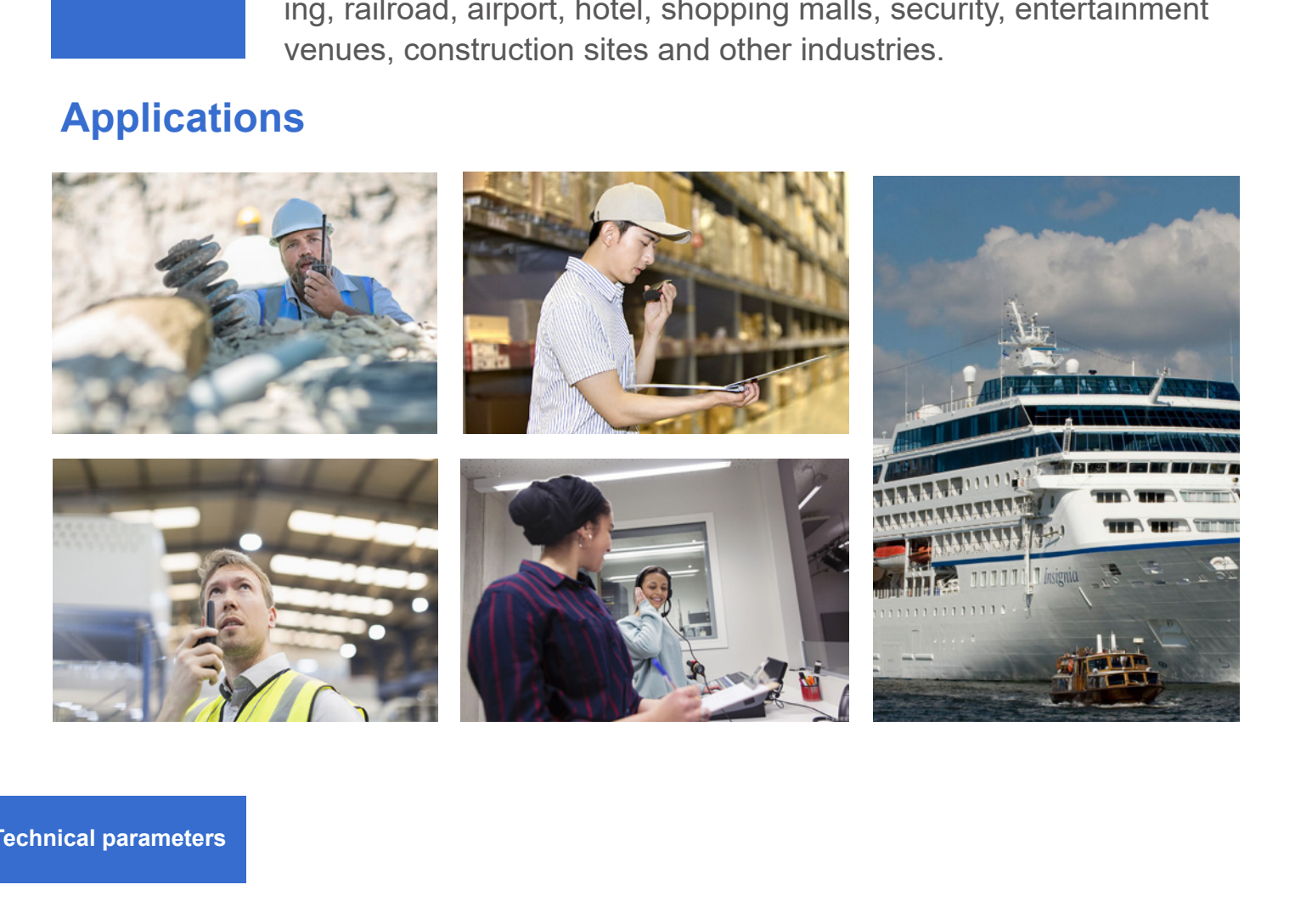
DR-300A supports Bluetooth; it is fast connection, high compatibility, wide coverage, stable, no lag, and zero delay on calls.



Extended Communication Coverage

DR-300A utilizes a high-sensitivity receiver module and a high-efficiency monopole antenna to enhance signal penetration, providing good calls in rooms with weak signals, and maintaining stable performance and RF power output in low battery conditions.

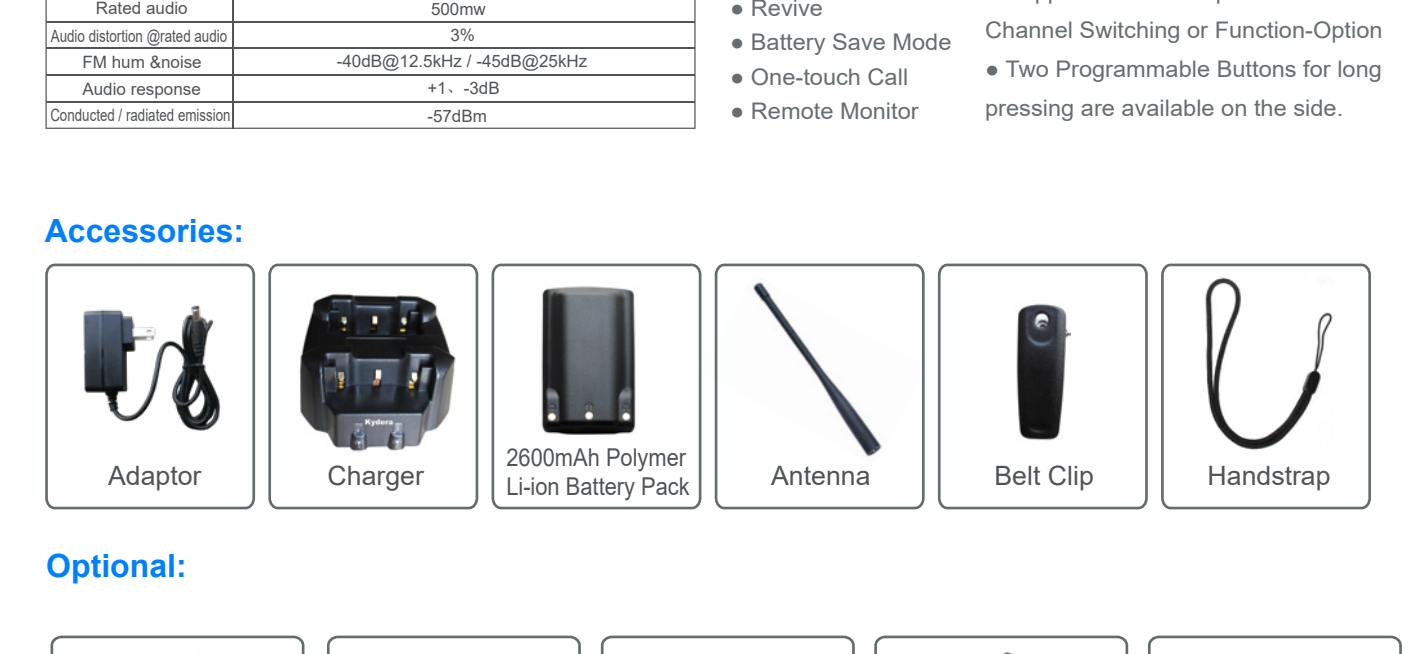
In addition, the monopole antenna has a unique thicker thread design that is less prone to breakage and bending, which helps to increase the antenna's life, as well as increase radiation efficiency and extend radio communication coverage.



DR-300A

Adopting humanized appearance design, AI-based Noise Cancellation technology, clear digital audio, with automatic roaming, GPS, Bluetooth, digital trunking and other optional features, DR-300A provides solid and reliable communication guarantee for emergency communication and management dispatching of users in business, manufacturing, railroad, airport, hotel, shopping malls, security, entertainment venues, construction sites and other industries.

Applications



Technical parameters

General specification			Transmitter		
Items	UHF	VHF	Items	UHF	VHF
Frequency	400-480MHz	136-174MHz	Frequency	400-480MHz	136-174MHz
Channel Spacing	12.5kHz/25kHz	12.5kHz/25kHz	Channel Spacing	12.5kHz/25kHz	12.5kHz/25kHz
Channel Capacity	4000 (250 Channels / Zone)	136-174MHz	Frequency stability	±0.5ppm	±0.5ppm
Antenna impedance	50Ω	50Ω	Low Power	1W	2W
Dimensions(H*W*D)	88x52x37mm	88x52x37mm	High power	4.5W	5W
Weight (Whattary)	235g	235g	Modulation restriction	12.5kHz/12.5kHz / 45.0dB@25kHz	12.5kHz/12.5kHz / 45.0dB@25kHz
Rated audio	500mw	500mw	FM hums & noise	-40dBm - 1GHz / -30dBm - 1GHz	-40dBm - 1GHz / -30dBm - 1GHz
Adjacent channel selectivity	60dB@12.5kHz / 45dB@25kHz	60dB@12.5kHz / 45dB@25kHz	Conducted/radiated emission	-36dBm - 1GHz / -30dBm - 1GHz	-36dBm - 1GHz / -30dBm - 1GHz
Spurious rejection	500mw	500mw	Adjacent channel selectivity	-60dB@12.5kHz / -45dB@25kHz	-60dB@12.5kHz / -45dB@25kHz
Auto distortion (Rated audio)	0%	0%	Audio Distortion	3%	3%
FM hum & noise	-40dB@12.5kHz / -45dB@25kHz	-40dB@12.5kHz / -45dB@25kHz	FM modulation	12.5kHz: 11K0F3E	12.5kHz: 11K0F3E
Audio response	+1 ~ -3dB	+1 ~ -3dB	4FSK digital modulation	12.5kHz data: 7K60F1D and 7K60F1D	12.5kHz data: 7K60F1E and 7K60F1E
Conducted / radiated emission	-57dBm	-57dBm	Digital vocoder	AMBE+2™	AMBE+2™
Note: The battery working life may have little difference. Battery capacity may change without notice, but the list is standard specification.			Digital agreement	ETSI/TS102 361-1, -2, -3	ETSI/TS102 361-1, -2, -3

Receiver		
Items	UHF	VHF
Frequency	400-480MHz	136-174MHz
Channel Spacing	12.5kHz/25kHz	12.5kHz/25kHz
Frequency stability	±0.5ppm	±0.5ppm
Analogue sensitivity	0.18μV	0.18μV
Digital sensitivity(5% BER)	0.25μV / 0.2μV	0.25μV / 0.2μV
Intermodulation	65dB	65dB
Adjacent channel selectivity	60dB@12.5kHz / 45dB@25kHz	60dB@12.5kHz / 45dB@25kHz
Spurious rejection	500mw	500mw
Auto distortion (Rated audio)	0%	0%
FM hum & noise	-40dB@12.5kHz / -45dB@25kHz	-40dB@12.5kHz / -45dB@25kHz
Audio response	+1 ~ -3dB	+1 ~ -3dB
Conducted / radiated emission	-57dBm	-57dBm

Accessories:		
Adaptor	Charger	2600mAh Polymer Li-Ion Battery Pack
Antenna	Belt Clip	Handstrap

Optional:		
Earpiece (Optional)	GPS (Optional)	Bluetooth (Optional)
Bluetooth PTT (Optional)	Bluetooth Headset (Optional)	

Main Features:		
• Private Call	• Call Alert	
• Group Call	• Roaming	
• All Call	• Prompt Tone On/Off	
• Scan	• Low Power/Voice/Icon Prompt	
• Kill	• Support Voice Prompt for	
• Revive	• Two Switching or Functions-Option	
• Battery Save Mode	• One-Touch Call	
• Remote Monitor	• Remote Monitor	

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