



BP660

Professional DMR Radio

Based on DMR standards, the new generation of digital radio BP660 brings innovations and enhancements in appearance, structure, and performance. It integrates intelligent noise reduction, optimal reception, flexible dispatch, and simple operation, delivering clear audio, wider coverage, fast respond, precise positioning, and enhanced protection, bringing exceptional communication experience.

-  AI Noise Reduction
-  Anti-Interference
-  Multiple Alarms
-  Multiple Encryptions
-  Rich Communication Selection
-  Excellent Quality/Performance
-  Satellite Positioning*
-  Bluetooth/250Hours Recording*

(*Represents optional functions)





HIGHLIGHTS AND BENEFITS

AI Noise Reduction

BP660 comes with an in-built high-power speaker and AI noise reduction technology, enabling 360° sound pickup, effectively filtering background noise, and delivering clear audio anytime, anywhere. Incorporates automatic acoustic feedback suppression to suppress short-distance howling, monitor and block feedback loop in real-time, and provide seamless voice experience in crowded areas, significantly enhancing voice communication.

Multiple Alarms

BP660 supports multiple alarm modes including one-key alarm, lone worker, and man down to inform dispatch console immediately in emergencies and provide reliable security assurance.

Precise Positioning

BP660 allows location and distance display when both parties enabled satellite positioning, providing accurate orientation and distance information. It incorporates optional satellite positioning for real-time tracking and managing static and moving status, effectively coordinating and managing operational personnel, and improving command and dispatching efficiency.

Rich Applications

BP660 supports an optional Bluetooth 5.0 modular that allows to access wireless audio device, wireless PTT device, offering extensible interface options. Besides that, it also allows an optional 250 hours recording to sustain long time communication.

Enhanced Anti-Interference

BP660 employs a customized shielding case on its mainboard that isolates interference signals while preventing internal signals from radiating outward and enhancing signal stability. In scenarios such as signal edge areas, wide-range, and long-distance communication, the BP660 optimizes RF performance by reducing front-end link loss and enhancing back-end demodulation capability, improving reception sensitivity, and expanding communication coverage.

Voice Encryption

BP660 incorporates dynamic, static, AES256, and ARC4 encryption to secure communications and effectively avoid information leakage lead by eavesdropping or interference.

DMR Narrowband Communication

The BP660 DMR radio delivers excellent communication performance, providing better voice and audio quality in a wider signal range. It enhances system application management for digital communications, allows it to access Belfone SDC and SVT system and carry out command and dispatch, intelligent management, and dynamic channel allocation.

•TDMA Two Time-Slots •Virtual Trunking

Excellent Design

The 1.77-inch screen comes with the user-friendly interface, brings more intuitive information display and provides convenience for simple operation. Rated IP68 protection, this radio is rugged and durable with great impact resistant and enhanced anti-oxidation capacity to endure various harsh environments.



FUNCTIONS

(○ Represents optional functions)

- Individual Call/Group Call/All Call
- Scanning/Monitoring/ Remote Kill
- Silence Unknowning Calls
- TDMA Two Time-Slots
- USB Drive Mode
- Talk Priority
- TOT/ Lunch Permission
- Compatible Digital/Analog
- VOX
- Time Display
- Battery Saving/ Low Battery Alert
- Conventional DMR/SDC/SVT (Optional)



SPECIFICATION

General	
Frequency Range(Optional)	VHF:136~174 MHz / UHF:350~400 MHz UHF:400~480 MHz / UHF:450~520 MHz
Channel Capacity	1024
Zones	64
Channel Spacing	12.5KHz/25KHz
Working Voltage	DC 7.4V (± 20%)
Battery Capacity	2000 mAh
Battery Average Working Time (5/5/90)	Digital 22 hours, Analog 16 hours
Frequency Stability	± 1.5ppm
Antenna Impedance	50 Ω
Dimension	60 (L) *38 (W) *125 (H)mm
Screen	1.77-Inch
Weight	316g(Including Battery)
Recording(Optional)	250 Hours
Bluetooth(Optional)	BT5.0
Transmission	
Output Power	≤5W
4FSK Modulation	12.5kHz(data only): 7K60FXD 12.5kHz(data and voice): 7K60FXE
FM Modulation	12.5 kHz: 8K50F3E; 25 kHz: 16KΦF3E;
Modulation Limitation	± 2.5kHz@12.5kHz ± 5.0kHz@25kHz
FM Noise	-40dB
Conducted Emission	-36 dBm≤ 1GHz/-30 dBm≥ 1GHz
Adjacent Channel Power	≤ -60dB
Frequency Response	+1/-3 dB
Audio Distortion	3%
Digital Voice Codec	AMBE++

Receiver	
Digital Sensitivity	5% BER: 0.25 uV
Intermodulation	60dB
Adjacent Channel Selectivity	60dB
Spurious Suppression	60dB
FM Noise	-40dB
Frequency Response	+1/-3 dB
Rated Audio Output Power	1.0W
Max Audio Output Power	1.5W
Rated Audio Distortion	3%
Conducted Radiation	-57dBm
Positioning	
Positioning Precise	<2.5m (CEP50, with good signal)
TTFF(First Location)Cold Boot	< 30 Seconds (with good signal)
TTFF(First Location) Hot Boot	<1Second (with good signal)
Environmental Specifications	
Operation Temperature	-20℃—+60℃
Storage Temperature	-30℃—+85℃
Moisture Proof	MIL-STD-810H
Vibration& Shock	MIL-STD-810H
Waterproof& Dustproof	IP68

Note: The above specification is tested by the trial standard. Due to the continuous development of technology, the data provided are for reference only.

STANDARD ACCESSORIES



OPTIONAL ACCESSORIES



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Belfone
Communications for Efficiency and Safety

Dedicated to increasing the efficiency and reliability of missioncritical communications, Belfone is always on the way to offer responsive, flexible and reliable products. For more information about our products and solutions, contact us or visit us at www.belfone.com.

