



BF-TD930

Portable Radio

- Full Duplex
- Single Frequency Repeater
- Mandown, Lone Worker, Emergency Alarms
- IP68 for Dust & Water Protection
- ARC4&AES256 Encryption
- DMO True 2-Slot, Allowing for 2 Talk Paths at 1 Frequency
- Transmit Interrupt/Radio Priority for Emergency or Urgent Communication
- Integrated High Precision GPS
- Can be updated to Trunking version



OVERVIEW

BF-TD930 is an upmarket digital two-way radio which incorporates such advanced features as Full Duplex Calls, Pseudo Trunk, IP68 Protection, ARC4&AES256 Encryption, GPS Positioning, Mandown, Lone Worker, and Emergency Alert, delivering a most advanced and rich DMR radio communication experience. Moreover, BF-TD930 can work as a system portable terminal within both SDC and BTX and ETX systems. This safe and versatile radio is designed to benefit users from fields ranging from commercial users to public securities.

HIGHLIGHTS AND BENEFITS

DMO Pseudo Trunk

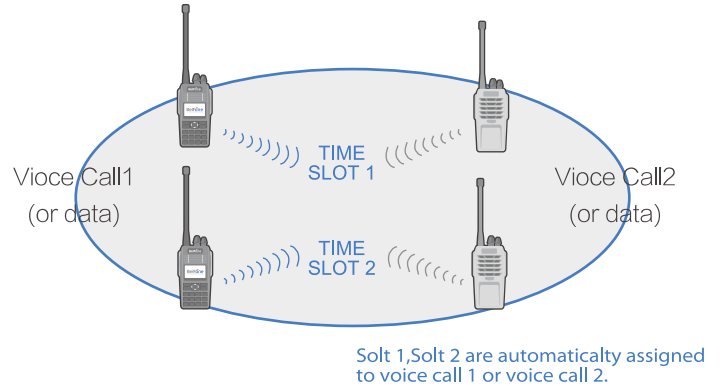
The user can choose slot 1 or slot 2 for communications. When one slot is occupied the radio will automatically switch into the free slot. Frequency efficiency is greatly increased.

Full Duplex Calls

BF-TD930 incorporates full duplex calling technology to allow both parties to talk at the same time, which greatly facilitates the exchange of crucial information and increases communication efficiency.

GPS Positioning

With better accuracy and precision, the built-in GPS enables the commander to locate and track his team members. This contributes a lot to personnel management and also promotes command and dispatch work as it equips the commander with clear location awareness.



Personnel Safety

Mandown: If some worker slips or falls, the mandown function will automatically activate and transmit a signal to other radios for help. Built-in Lone Worker, and Emergency alarms are also available in case of any accident.



Handheld/SFR Dual Modes

BF-TD930 can also function as a single frequency repeater, allocating one timeslot to receive and the other to transmit at the same frequency and using DMO mode to further extend radio coverage. One single device serves two purposes.

IP68 Protection

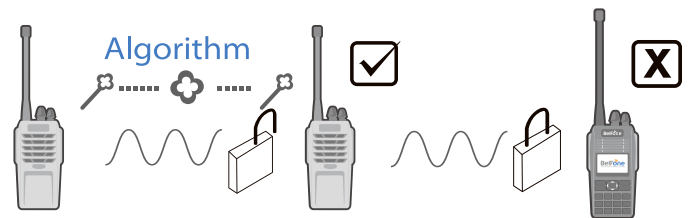
IP68 certified, BF-TD930 is a tough radio designed to brave the challenges of harsh environments. So, environmental factors are one less thing to worry about.

Automatic Roaming

BF-TD930 automatically roams among all sites in the network and always stays connected. This delivers more efficiency and flexibility to your radio communications.

Advanced Encryption with ARC4& AES256

The ARC4& AES256 encryption technology keeps your communications safe and private, optimizing your information safety.



STANDARD ACCESSORIES



OPTIONAL ACCESSORIES



SPECIFICATION

General

Frequency range	VHF: 136-174MHz / UHF: 400-480MHz / UHF2: 450-520MHz / UHF3: 350-400MHz
Channel Capacity	1024
Zones	128
Channel Spacing	12.5KHz/25KHz
Operating Voltage	DC 7.4V(±20%)
Battery capacity	2300 mAh
Battery Life (5/5/90)	Digital 21 hours / Analog 15 hours
Frequency Stability	± 0.5ppm
Antenna Impedance	50Ω
Dimensions (L × W × H)	56 (L) * 33(W)* 129 (H)mm
Weight	315g(include battery)

Transmitter

RF Output Power	High Power: 4.0W Low Power: 1.0W
4FSK Modulation	12.5kHz only data: 7K60FXD 12.5kHz data and audio: 7K60FXE
FM Modulation	12.5 kHz: 8K50F3E; 25 kHz: 16KΦF3E;
Modulation Limiting	+/- 2.5kHz @ 12.5kHz; +/- 5kHz @ 25kHz
FM Noise	-40dB@12.5kHz/45dB@25kHz
Conducted Emission	-36 dBm≤1GHz/-30 dBm≥1GHz
Adjacent Channel Power	≤-60dB
Audio Response	+1/-3 dB
Audio Distortion	≤5%
Digital Voice Coder Type	AMBE or NVOC (only in PDTmode)

Receiver

Digital Sensitivity	0.25 μV /BER5%
Analog Sensitivity	0.25 uV (12 dB SINAD)
Intermodulation	65dB@12.5/25kHz
Adjacent Channel Selectivity	60dB@12.5kHz/70dB@25kHz
Spurious Response Rejection	70dB@12.5/25kHz
FM Noise	40dB @ 12.5kHz; 45dB @ 25kHz
Audio Response	+1/-3 dB
Rated Audio output power	0.5W(8 Ω load)
Max Audio output power	1.5W
Audio Distortion	≤5%
Conducted Spurious Emission	-57dBm
Location Accuracy	Horizontal Accuracy ≤-10m (with well signal)
TTF (Time To First Fix) Cold Start	< 1 Minute (with well signal)
TTF (Time To First Fix) Hot Start	< 10 Second (with well signal)

Environmental Specifications

Operating Temperature	-30℃ ~ +70℃
Storage Temperature	-40℃—+85℃
Humidity	MIL-STD-810G Standard
Vibration & Shock	MIL-STD-810G Standard
Dustproof & waterproof	IP68

Fujian Belfone Communications Technology Co., Ltd

Add: A-15 Huaqiao Economic Development Zone, Luojiang, Quanzhou, Fujian, China

Email: overseas@belfone.com

Phone: +86 595 28396717

Fax: +86 595 22771635

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.

