

SPECIFICATION

General	
Frequency Range	VHF: 136~174MHz; UHF: 350~400MHz/400~470MHz/450~520MHz
Channel Capacity	1024
Zone	64
Channel Spacing	12.5KHz/20KHz/25KHz
Working Voltage	7.4V (±20%)
Battery	3400mAh
Weight	320 g (including battery pack)
Dimensions	56(L)*32(W)*136(H)mm
Frequency Stability	± 1.5ppm
Antenna Impedance	50Ω
Transmitter	
Power Output	H: 5W(VHF)/4W(UHF); L: 1W
4FSK Modulation	12.5KHz (data only): 7K6 FXD; 12.5KHz (data and voice): 7K6 FXW
FM Modulation	11K fF3E@12.5 KHz; 14K fF3E@20 KHz; 16K fF3E@25 KHz;
Modulation Limitation	+/- 2.5KHz @ 12.5KHz; +/- 5KHz @ 25KHz
FM Noise	40dB@12.5KHz/43dB@20KHz/45dB@25KHz
Spurious Emission	-36 dBm≤1GHz/-30 dBm≥1GHz
Adjacent Channel Power	60dB@12.5KHz/70dB@20/25KHz
Audio Response	+1~-3dB
Audio Distortion	≤3%
Digital Vocoder	AMBE++ or SELP
Digital Protocol	ETSI-TS102 361 -1 2 3 4
Receiver	
Sensitivity	Analog:0.22 uV (12 dB SINAD)/Digital:0.22 uV/BER5%
Selectivity TIA-603 ETSI	60dB @ 12.5KHz / 70dB @ 20/25KHz
Intermodulation TIA-603 ETSI	65dB @ 12.5/20/25KHz
Spurious Suppression TIA-603 ETSI	70dB @ 12.5/20/25KHz
Blocking TIA-603 ETSI	84dB
S/N	40dB @ 12.5KHz/43dB @ 25KHz/45dB @ 25KHz
Rated Audio Power Output	0.8W
Rated Audio Distortion	≤3%
Audio Response	+1~-3db
Conducted Spurious Emission	<-57dBm
Environmental Specifications	
Operating Temperature	-30℃~ +60℃
Storage Temperature	-40℃~ +85℃
Dust& Water Proof	IP68 Standard
Humidity	Per MIL-STD-810 C/D/E/F/G Standard
Shock & Vibration	Per MIL-STD-810 C/D/E/F/G Standard

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

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BF-TD950

Tier III Trunking Portable

- Full Duplex Calls
- GPS Positioning
- IP68 Protection
- A Long Battery Life
- Superior Audio Quality
- Personnel Safety
- Automatic Roaming
- Radio Priority-Based Interruption
- DMR Tier III Trunking Mode
- User Authentication





## OVERVIEW

BF-TD950 is a full duplex DMR trunking portable radio with GPS, IP68 protection and MIL-STD-810 C/D/E/F/G Standard, which delivers outstanding performance even in harsh environments. The slim and robust body comes with a 2.0 inch HD color screen, enabling the user to read with ease regardless of the various light environments. Besides the conventional digital functions, BF-TD950 enjoys the advantages of a long battery standby time and full duplex calls. This is a professional radio to enrich your trunking experience.

## HIGHLIGHTS AND BENEFITS

### Full Duplex Calls

BF-TD950 incorporates the ground-breaking 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 member. This contributes a lot to personnel management and dispatching.

### IP68 Protection

Our tough IP68 radio BF-TD950 is designed to brave the challenges of harsh environments. So, environmental factors are one less thing to worry about.

### A Long Battery Life

With a battery capacity of 3400mAh, BF-TD950 can easily power you through your longest working day. BF-TD950 can work straight for 17 hours in trunking mode.

### Superior Audio Quality

BF-TD950 incorporates advanced audio processing technology to effectively suppress background noise and enhance audio quality, delivering a most loud and clear audio.

### Personnel Safety

Our intrinsically safe BF-TD950 comes with features like Man Down, Lone Worker and Emergency Alarm, to keep your staff safe and sound. Safety comes first!

### Automatic Roaming

BF-TD950 automatically roams among all sites in the network and always stays connected. This delivers more efficiency and flexibility to your radio communications.

### Radio Priority-Based Interruption

A radio with higher priority can interrupt communications between radios with lower priorities, either to transmit or just to clear a channel. This greatly facilitates commanding and dispatching.

### DMR Tier III Trunking Mode

BF-TD950 is compatible with Belfone BTX/ETX Trunking System. When working in DMR Tier 3 Trunking mode, BF-TD950 can access a pool of radio channels which are dynamically allocated to users when required. This is more frequency efficient.

### User Authentication

The inbuilt ESN authentication and standard authentication can effectively prevent illegal users from accessing BF-TD950. Both your missions and your information stay uninterrupted from the outside.



## STANDARD ACCESSORIES



## OPTIONAL ACCESSORIES

