



BF-TD510/TD511

DMR Portable

- 2-Tone/5-Tone
- Integrated High Precision GPS
- IP68 for Dust & Water Protection
- ARC4 & AES256 Encryption (optional)
- Mandown, Lone Worker, Emergency Alarms
- DMO True 2-Slot, Allowing for 2 Talk Paths at 1 Frequency
- Transmit Interrupt/Radio Priority for Emergency or Urgent Communication



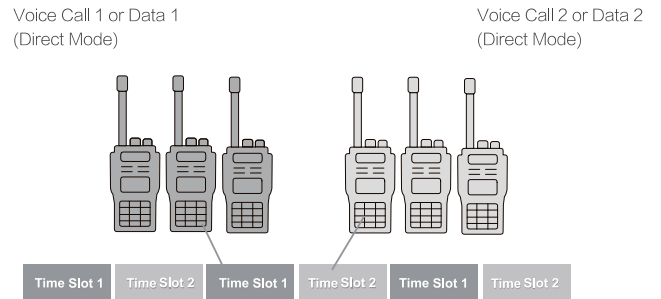
OVERVIEW

BellFone DMR IP68 portable radio BF-TD510/511 enjoy the advantages of superior audio quality, an outstanding coverage, a long-lasting battery life and more. The pseudo trunking and two timeslots technologies greatly increase spectrum efficiency without any extra costs. Where safety is concerned, the built-in ARC4 & AES256 encryption technology helps to maximize communication privacy while the delicate orange emergency button together with such functions as Man-down, Lone Worker and GPS helps to optimize your workers' safety.

HIGHLIGHTS AND BENEFITS

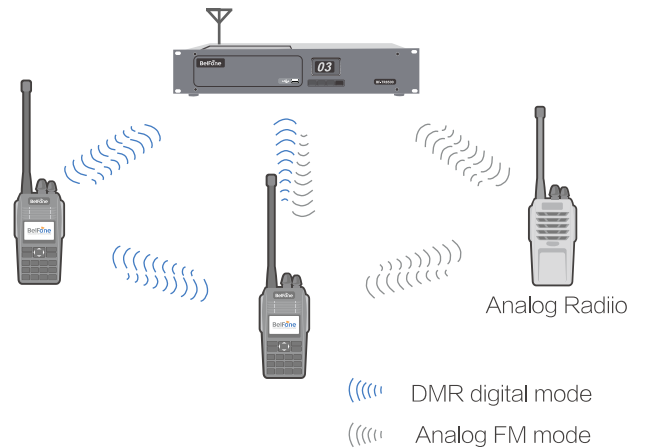
DMO True 2-Slots

In direct mode these radios support two voice calls simultaneously due to DMR two timeslots, which means two communication paths at 1 frequency with no extra costs or frequency license.



Digital/Analog Dual Modes

Receive both analog and digital signals on a single channel and can automatically switch into the needed mode for efficient communications.



Personnel Safety

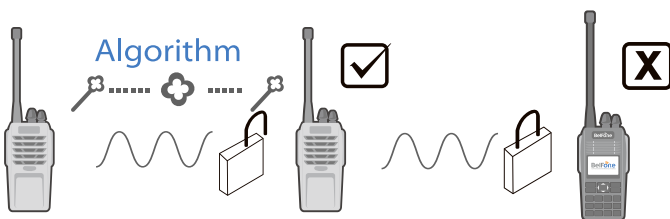
Mandown: If some worker slips or falls, the mandown function will automatically activate and transmit a signal to other radios for help. Built-in Lone Worker, and Emergency alarms are also available in case of any accident.

Automatic Roaming (Programmable)

In an IP multi-site network, this feature enables these radios to automatically roam among all sites and stay connected, delivering more flexibility and efficiency.

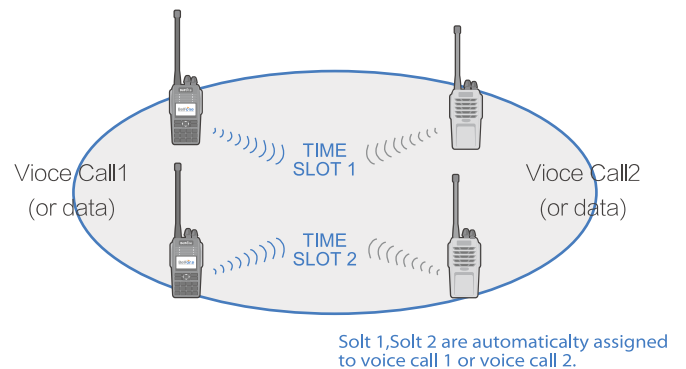
Advanced Encryption with RC4 Technology

The RC4 encryption technology keeps your communications safe and private, optimizing your information safety.



Smart Virtual Trunking

The DMO Smart Virtual Trunking(SVT) can enlarge the link capacity for higher efficiency





Voice Recording (optional) (32G memory--can record over 400 hours' communications)

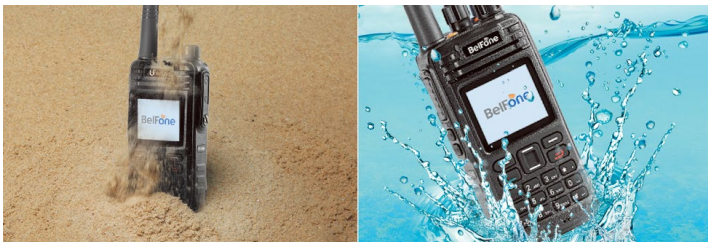
Support voice recording and you can play the recording on your radio. This is a radio with a good and long memory.

Radio Priority-Based Interruption

This function enables a radio with higher level to interrupt communications between radios with lower levels, giving higher priority to radios with higher levels. This means better dispatching efficiency.

IP68 Protection

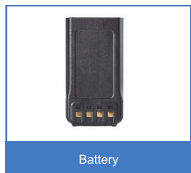
Tightly sealed against dust, spills, sprays and unexpected showers, ensuring outstanding performance in tough environments.



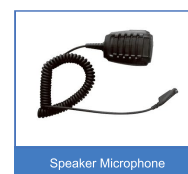
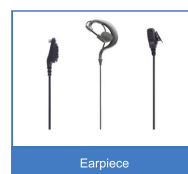
BF-TD510

BF-TD511

STANDARD ACCESSORIES



OPTIONAL ACCESSORIES



SPECIFICATION

General	
Frequency Range	VHF:136-174 MHz UHF:350-390 MHz/UHF:400-480 MHz/UHF:450-520 MHz
Channel Capacity	BF-TD510: 160、BF-TD510(SDC/SVT): 512 / BF-TD511: 512
Zones	32
Channel Spacing	12.5KHz/25KHz
Operating Voltage	DC 7.4V (±20%)
Battery Capacity	2000 mAh
Battery Life (5/5/90)	Digital 22 Hours; Analog 16 Hours
Recording Time	400 Hours
Frequency Stability	± 1.5ppm
Antenna Impedance	50Ω
Dimensions (L × W × H)	BF-TD510: 57 (L) * 32(W)* 119 (H)mm / BF-TD511: 61 (L) * 35 (W)* 118 (H)mm
Weight	BF-TD510: 239g(Including Battery) / BF-TD511: 283g(Including Battery)
Transmitter	
RF Output Power	High Power: 4.5W / 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
Conducted Emission	-36 dBm ≤ 1GHz / -30 dBm ≥ 1GHz
Adjacent Channel Power	≤ -60dB
Audio Response	+1/-3 dB
Audio Distortion	3%
Digital Voice coder Type	AMBE
Receiver	
Digital Sensitivity	5% BER: 0.25 uV
Analog Sensitivity	0.25 uV (12 dB SINAD)
Intermodulation	60dB
Adjacent Channel Selectivity	60 dB
Spurious Response Rejection	60 dB
FM Noise	-40dB
Audio Response	+1/-3 dB
Rated Audio Output Power	0.5W
Max Audio Output Power	BF-TD510: 1.2W / BF-TD511: 1.3W
Audio Distortion	3% (Typical)
Conducted Spurious Emission	-57dBm
GPS Accuracy	Horizontal Accuracy ≤ -10m (with well signal)
TTFF (Time To First Fix) Cold Start	< 1 Minute (with well signal)
TTFF (Time To First Fix) Hot Start	< 10 Second (with well signal)
Environmental Specifications	
Working Temperature	-20℃—+60℃
Storage Temperature	-30℃—+85℃
Humidity	MIL-STD-810G Standard
Vibration & Shock	MIL-STD-810G Standard
Dustproof & Waterproof	IP68

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