



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



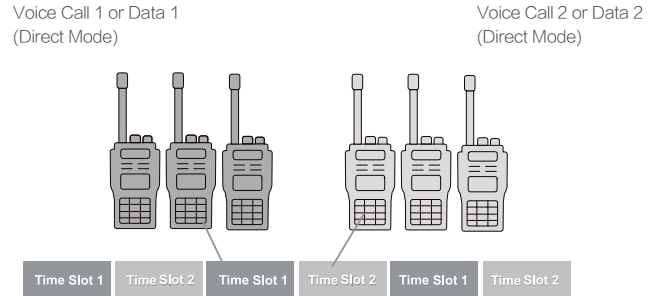
OVERVIEW

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

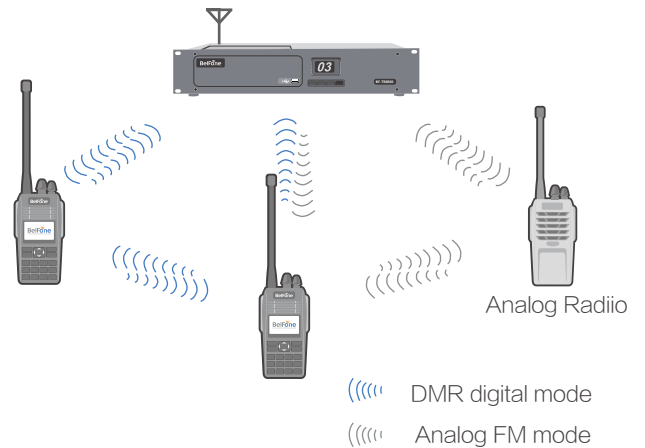
DMO True 2-Slots

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

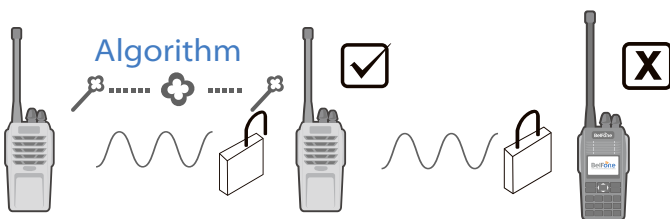
Mandown: If some worker slips or falls, the mandown function will automatically activate and transmit a signal to other radios for help. Built-in Lone Worker, and Emergency alarms are also available in case of any accident.

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.

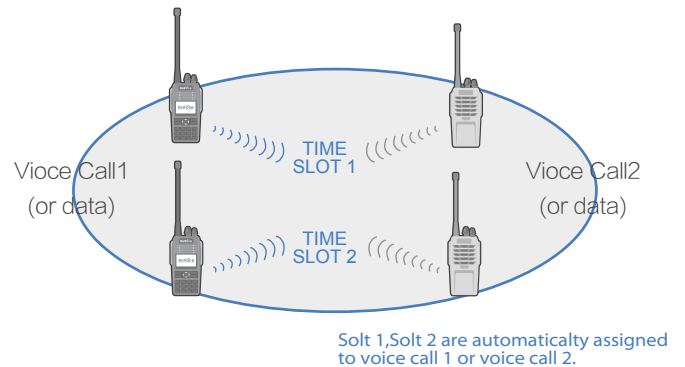
Advanced Encryption with RC4 Technology

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

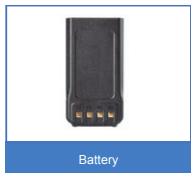
Tightly sealed against dust, spills, sprays and unexpected showers, ensuring outstanding performance in tough environments.



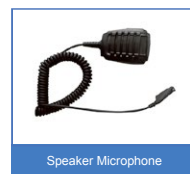
BF-TD510

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STANDARD ACCESSORIES



OPTIONAL ACCESSORIES



SPECIFICATION

General	
Frequency Range	VHF: 136~174MHz; UHF: 350~390MHz/400~480MHz/450~520MHz
Channel Capacity	TD510:32 TD511:1024
Zone	TD510:64 TD511:64
Channel Spacing	12.5KHz/25KHz
Working Voltage	7.4V (±20%)
Battery	16/22 hours(2000mA)
Weight	239 g (include battery)
Dimensions	57(L)*32(W)*119(H)mm
Frequency Stability	± 1.5ppm
Antenna Impedance	50Ω
Transmitter	
Power Output	H: 5W; L: 1W
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; +/- 5KHz @ 25KHz
FM Noise	-40dB
Spurious Emission	-36 dBm≤ 1GHz/-30 dBm≥ 1GHz
Adjacent Channel Power	≤-60dB
Frequency Response	+1/-3dB
Audio Distortion	≤3%
Digital Vocoder	AMBE3000
Receiver	
Digital Sensitivity	5% BER: 0.25 uV
Analog Sensitivity	0.25 uV (12 dB SINAD)
Intermodulation	60dB
Adjacent Channel Selectivity	60dB
Spurious Suppression	60dB
FM Noise	-40dB
Frequency Response	+1/-3dB
Audio Power	1.5W
Audio Distortion	3% (typical)
Conduction Radiation	-57dBm
GPS Precision	Horizontal Accuracy≤-10m (with good signal)
TTFF (first location)Cold Boot	< 1 minute (with good signal)
TTFF (first location)Hot Boot	< 10second (with good signal)
Environmental Specifications	
Operating Temperature	-20°C~ +60°C
Storage Temperature	-30°C~ +85°C
Dust& Water Proof	IP68
Humidity	Per MIL-STD-810 C/D/E/F Standard
Shock & Vibration	Per MIL-STD-810 C/D/E/F Standard

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