



# BF-TD510EG/TD511EG

## DMR Portable

- 2-Tone/5-Tone
- IP68 for Dust & Water Protection
- 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



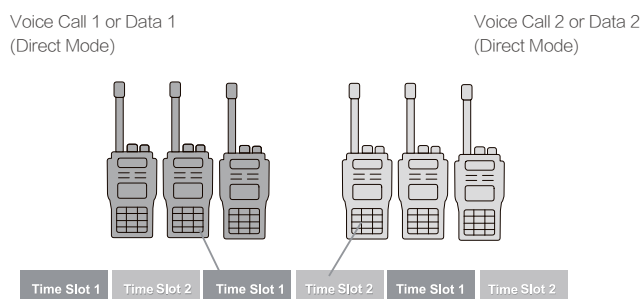
# OVERVIEW

BellFone DMR IP68 portable radio BF-TD510EG/511EG 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. Orange emergency button together with such functions as Man-down, Lone Worker 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.

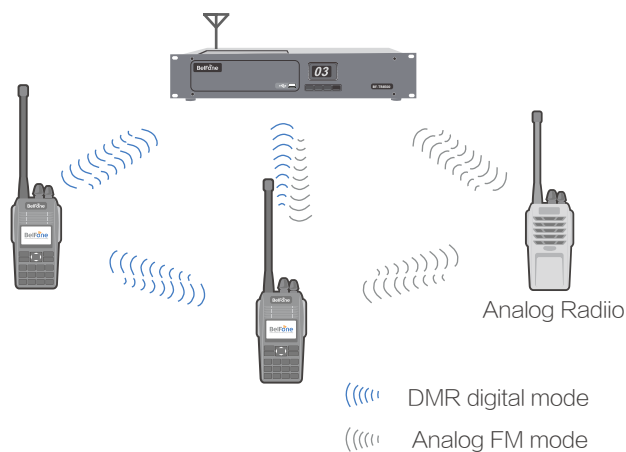


### Digital/Analog Dual Modes

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.

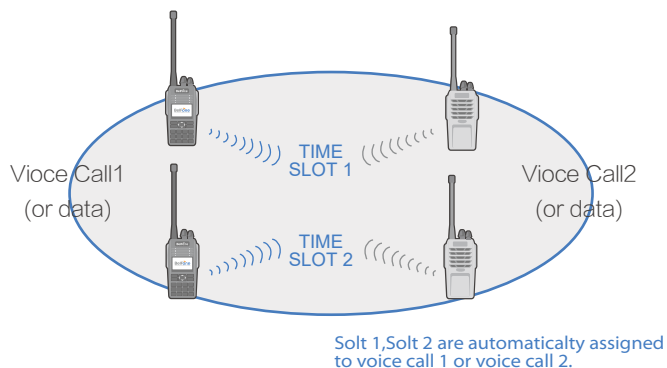


### Automatic Roaming (Programmable)

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.

### 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)

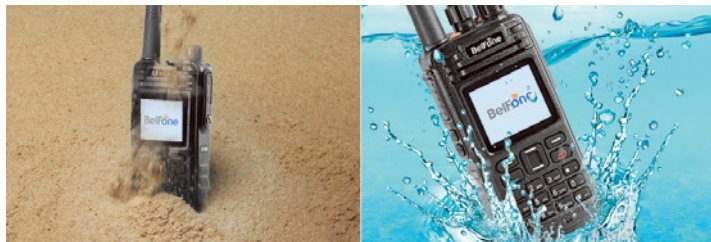
Support voice recording and you can play the recording on your radio. This is a radio with a good and long memory.

## 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.



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## STANDARD ACCESSORIES



Battery



Belt Clip



Hand Strap



Stubby Antenna



Charger

## OPTIONAL ACCESSORIES



Whip Antenna



Super Charger



Programming Cable



Earpiece



Speaker Microphone



# SPECIFICATION

General	
Frequency Range	VHF:136~174 MHz
Channel Capacity	BF-TD510EG: 160、BF-TD510EG (SDC/SVT): 512/ BF-TD511EG: 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-TD510EG: 57 ( L ) * 32(W)* 119 (H)mm / BF-TD511EG: 61 ( L ) * 35 (W)* 118 (H)mm
Weight	BF-TD510EG: 239g(Including Battery) / BF-TD511EG: 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-TD510EG: 1.2W / BF-TD511EG: 1.3W
Audio Distortion	3% (Typical)
Conducted Spurious Emission	-57dBm
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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