



BF-TD510/511/512

DMR DMR Portable

BelFone DMR IP67 portable radio TD510/511/512 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 RC4 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.

Mandown, Lone Worker, Emergency Alarms

IP67 for Dust & Water Protection

Advanced Encryption with RC4 Technology

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



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BF-TD510/511/512

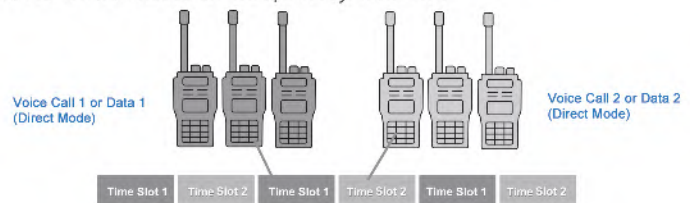
Commercial DMR Radios



Highlights

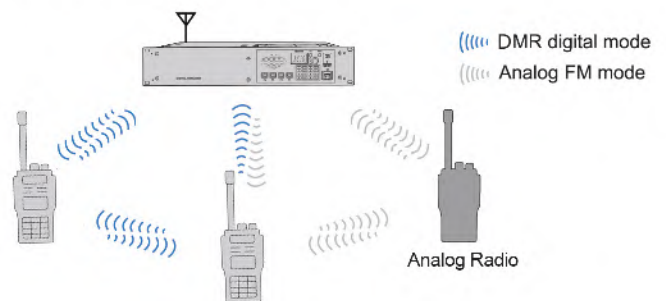
DMO True 2-Slot

In direct mode these radios support two voice calls simultaneously due to DMR two timeslots, which means two communication paths on 1 frequency at 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 his colleagues for help. Built-in Lone Worker, and Emergency alarms are also available in case of any accident.



GPS Positioning

You can track the precise GPS position of a terminal any time you want. You will know where all your workers are in realtime.

Voice Recording

(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.

IP67 Protection

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



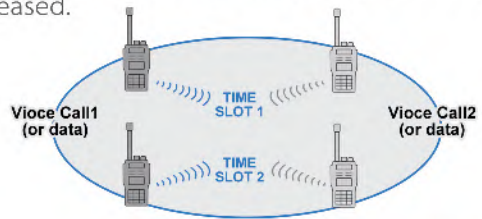
Advanced Encryption with RC4 Technology

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



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.



Slot 1, Slot 2 are automatically assigned to voice call 1 or voice call 2.

Standard Accessories



Battery



Belt Clip



Hand Strap



Stubby Antenna



Charger

Optional Accessories



Whip Antenna



Super Charger



Programming Cable



Earpiece



Speaker Microphone

Specifications

General	
Frequency Range	VHF: 136-174MHz; UHF: 350-390MHz/400-480MHz/450-520MHz
Channel Capacity	512
Zone	32
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)
TTF (first location)Cold Boot	< 1 minute (with good signal)
TTF (first location)Hot Boot	< 10second (with good signal)
Environmental Specifications	
Operating Temperature	-20℃~ +60℃
Storage Temperature	-30℃~ +85℃
Dust& Water Proof	IP67
Humidity	Per MIL-STD-810 C/D/E/F Standard
Shock & Vibration	Per MIL-STD-810 C/D/E/F Standard

BelFone reserves the right to change or update the specifications without any prior notice. For more information please visit www.belfone.com



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