

## Specifications

General	
Frequency Range	VHF:136-174MHz/UHF:400-480MHz
Channel Capacity	1024
Zones	64
Channel Spacing	12.5KHz/25KHz
Working Voltage	DC 13.8V(±20%)
Frequency Stability	±0.5ppm
Antenna Impedance	50Ω
Dimensions	162*157*51mm (L/W/H)
Weight	1.3Kg
Transmitter	
Power Output	VHF/UHF H:50W VHF/UHF M:25W VHF/UHF L:10W
4FSK Modulation	12.5KHz (data only): 7K60FXD 12.5KkKHz (data and voice): 7K60FXE
FM Modulation	12.5 KHz: 8K50F3E
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/-3 dB
Audio Distortion	<3%
Vocoder	AMBE3000
Receiver	
Digital Sensitivity	5% BER: 0.20 uV
Analog Sensitivity	0.20 uV (12 dB SINAD)
Intermodulation	60dB
Adjacent Channel Selectivity	60 dB
Spurious Response Rejection	60 dB
FM Noise	-40dB
Frequency Response	+1/-3 dB
Audio Power	5W
Audio Distortion	3%(typical)
Conduction Radiation	-57dBm
GPS Precision	Horizontal Accuracy≤-10m (in good condition)
TTFF (first location)Cold Boot	< 1 minute (good signal)
TTFF (first location)Hot Boot	< 10 seconds (good signal)
Environmental Specifications	
Working Temperature	-20°C~+70°C
Storage Temperature	-30°C~+80°C

BelFone reserves the right to update or change the above specifications without any prior notice. For more information please visit [www.belfone.com](http://www.belfone.com).



**Fujian BelFone Communications Technology Co., Ltd.**  
 Add: A15, Huaqiao Economic Development Zone, Shuangyang,  
 Luojiang, Quanzhou, Fujian, China 36200  
 Tel: +86 595 28396717  
 Fax: +86 595 22771635  
 Email: [overseas@belfone.com](mailto:overseas@belfone.com)  
 Website: [www.belfone.com](http://www.belfone.com)



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## BF-TM8500 DMR Mobile Radio

Featured with adjustable power, automatic roaming, remote kill/revive, BF-TM8500 is a cost-effective mobile radio that will enable you to keep your workers connected and accounted for. The 50W high transmitting power can further extend your radio talk range while digital/analog dual modes deliver a smooth transition by allowing you to go on using your existing analog radios, if there are any.

- Digital/analog Dual Modes
- 50W High Transmitting Power
- Power-on Password
- Automatic Roaming
- DTMF/2 Tone/5 Tone



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# BF-TM8500

Commercial DMR Radios



## Highlights

### Transmit Interrupt

This function enables a supervisor to interrupt a radio conversation in order to clear a channel for more important communications.

### 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.

### GPS ( Optional)

When activated, the integrated GPS will enable BF-TM8500 to constantly send its location information to the command center for the commander to see in real-time. All your vehicles stay tractable and accounted for.

### Adjustable Power

Our flexible BF-TM8500 comes with 3 adjustable power levels. The user can use 50W high power to further extend talk range or switch into lower power levels to extend radio standby time, according to his specific needs.

### Remote Kill/Revive

Such functions greatly facilitate dispatching work and can be especially useful if you want to kill a lost radio.

### Secure Communications

Use digital encryption to code and decode all voice calls, and support both dynamic and static encryption for secure communications.

### Automatic Roaming

In an IP multi-site network, BF-TM8500 can automatically roam from site to site and stay connected, delivering seamless communications.

## Features

### Main Features

- Digital/analog Dual Modes
- Pseudo Trunk
- 2 Tone/ 5 Tone
- Adjustable Power Levels
- GPS (Optional)
- Bluetooth (Optional)



### Digital Features

- Private Call
- Group Call
- All Call
- Radio Check
- Remote Kill/Revive
- Remote Monitor
- Emergency Alarm
- Digital Encryption
- SMS

### Analog Features

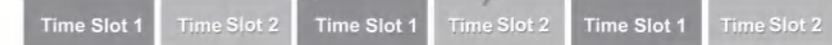
- CTCSS/DCS
- Squelch Levels
- Busy Channel Lockout
- Narrow/Wide Band

### DMO True 2-Slot

Voice Call 1 or Data 1  
(Direct Mode)



Voice Call 2 or Data 2  
(Direct Mode)



## Standard Accessories



Remote Speaker



DC Power Supply Cord



Fuse



Hang Buckle



Platform Support

## Optional Accessories



Program Cable



Magnetic Antenna



Power Supply