BF-TM8500

Enhanced Conventional Mobile Radio

- Digita/analog Dual Modes
- 50W Highransmitting Power
- Power-on Password
- Automatic Roaming
- DTMF/2 Tone/5 Tone

BelFone

Communications for Efficiency and Safety

OVERVIEW

This mobile radio is a reliable, cost-efficient solution to keep your team communicate, coordinate and collaborate for maximum efficiency and safety. With features of 50W high power for long-range communication, power-on password, Bluetooth, access to BelFone conventional DMR systems to enjoy call capacity and clear voice communications, etc., the radio enables your workers to connect without distraction, whether they're delivering cargo, dispatching trucks or transporting passengers.

HIGHLIGHTS AND BENEFITS

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 a higher level to interrupt communication 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.

RemoteKill/Revive

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

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 to lower power levels to extend radio standby time, according to his specific needs.

AutomaticRoaming

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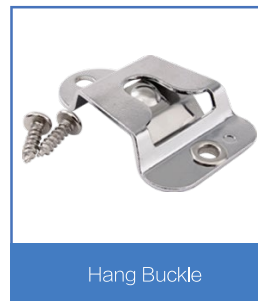- Squelch Levels
- Busy Channel Lockout
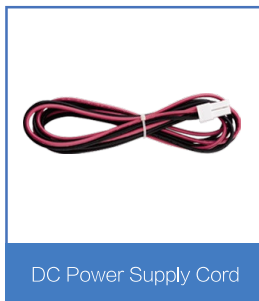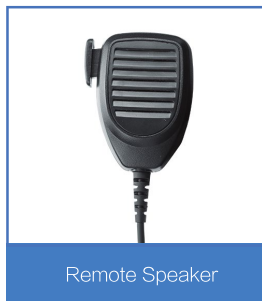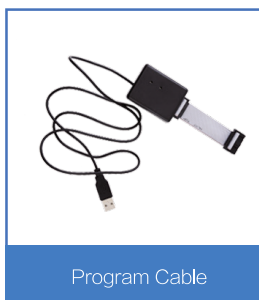- Narrow/Wide Band

DMO TRUE 2-SLOT

Voice Call 1 or Data 1
(Direct Mode)

Voice Call 2 or Data 2
(Direct Mode)

| Time Slot 1 | Time Slot 2 | Time Slot 1 | Time Slot 2 | Time Slot 1 | Time Slot 2 |

STANDARD ACCESSORIES

| Remote Speaker | DC Power Supply Cord | Fuse | Hang Buckle | Platform Support |

OPTIONAL ACCESSORIES

| Remote speaker with keyboard | Program Cable | Magnetic Antenna | Power Supply |
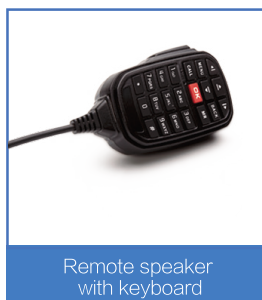
SPECIFICATION

General	
Frequency Range	VHF: 136–174MHz; UHF: 350–390MHz/ 400–480MHz/ 450–520MHz
Channel Capacity	1024
Zones	64
Channel Spacing	12.5KHz
Working Voltage	DC13.8V (±15%))
Frequency Stability	±1.5ppm
Antenna Impedance	50Ω
Dimension	175(L)* 175(W)* 63(H) mm
Weight	1.51kg
Operating Temperature	−20℃~+70℃
Storage Temperature	−40℃~+80℃

Transmitter	
Power Output	VHF/UHF H:30W; VHF/UHF L:10W
4FSK Modulation	12.5KHz (data only): 7K60FXD; 12.5KkHz (data and voice): 7K60FXE
FM Modulation	12.5KHz: 8K50F3E
Modulation Limitation	+/− 2.5KHz @ 12.5KHz
FM Noise	−40dB
Spurious Emission	−36 dBm≤1GHz; −30 dBm≥1GHz
Adjacent Channel Power	≤−60dB
Frequency Response	+1/−3dB
Vocoder	AMBE +2™
Audio Distortion	≤3%

Receiver	
Digital Sensitivity	5% BER: 0.25 uV
Analog Sensitivity	0.25 uV (12 dB SINAD)
Intermodulation	60dB
Adjacent Channel Selectivity	60dB
Spurious Response Suppression	70dB
FM Noise	−40dB
Frequency Response	+1/−3 dB
Audio Power	3W
Audio Distortion	≤3% (typical)
Conduction Radiation	−57dBm
GPS Precision	Horizontal Accuracy ≤−10m (with good signal)
TTFF (first location) Cold Boot	Cold Boot < 1 minute(with good signal)
TTFF (first location) Hot Boot	Hot Boot < 10 seconds (with good signal)

Dedicated to increasing the efficiency and reliability of missioncritical communications, BelFone is always on the way to offer responsive, flexible and reliable products. For more information about our products and solutions, contact us or visit us at www.belfone.com.