BF-TD505/506

Commercial Portable Pseudo Trunking Radio

- Small Size and Light Weight
- Manual Channel Editing(only for TD505)
- Radio Priority–Based Interruption
- A Long Battery
- Excellent Audio Quality
- Remote Kill/Revive(only for TD505)
- Private Call,Group Call and All Call

BelFone
Communications for Efficiency and Safety

OVERVIEW

Our smart BF-TD505/506 are two DMR migration radios designed for business users, such as hotels, restaurants, supermarkets, construction sites, etc. Besides all the conventional analog functions, our dual-mode radios briong you a whole new set of digital features, such as two timeslots, versatile calls, remote kill/revive, and a clear digital audio. BF-TD505/506 are cost-effective and feature-rich.

HIGHLIGHTS AND BENEFITS

Small Size and Light Weight

Small enough to be held comfortably in your hand and light enough not to be a burden.

Manual Channel Editing

You can add/delete/edit channels on your radios without having to connect to a PC.(This function applies to BF-TD505 only)

Radio Priority-Based Interruption

A radio with higher priority can interrupt communications between radios with lower priorities, either to transmit or to clear a channel for more important communications. This brings better dispatching efficiency to the team.

Remote Kill/Revive

Such functions enable you to kill or revive a radio over the air.This greatly facilitates dispatching work and can be especially useful should a radio happen to be lost. You can easily remote kill the lost radio and confidential information can be kept from leaking out.(This function applies to BF-TD505 only).
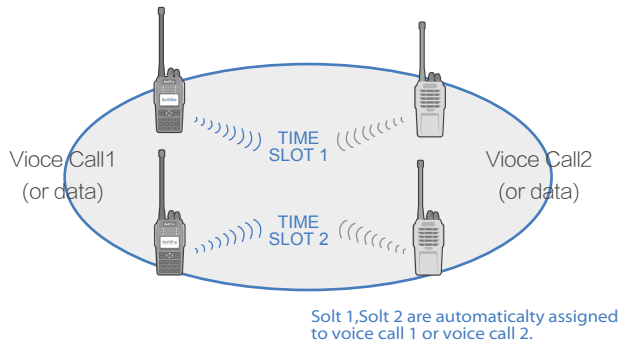
A Long Battery

BF-TD505 can function for longer than any conventional analog radios (digital 18hours,analog 14 hours).

Excellent Audio Quality

Excellent digital audio quality comes from the AMBE+2™ vocoder and FEC technology

Automatic Roaming(Programmable)

In an IP multi-site network, this feature enables BF-TD505/506 to automatically roam among all sites and stay connected, delivering more flexibility and efficiency.

Private Call, Group Call and All Call

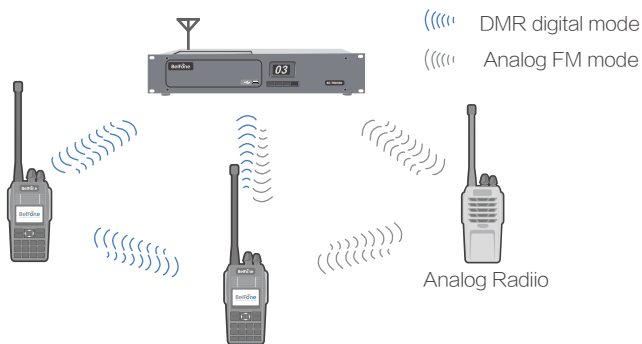The versatile calling functions bring more efficiency to your teamwork.

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.

Vioce Call1
(or data)

TIME SLOT 1

TIME SLOT 2

Vioce Call2
(or data)

Solt 1,Solt 2 are automaticalty assigned to voice call 1 or voice call 2.

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.
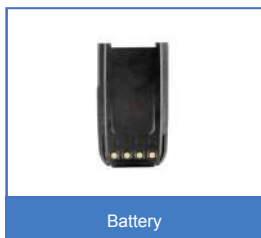
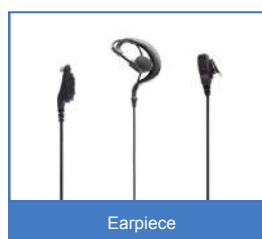((((DMR digital mode

((((Analog FM mode

03

Analog Radiio

BF-TD506

BF-TD505

STANDARD ACCESSORIES

| Battery | Belt Clip | Hand Strap | Stubby Antenna | Charger |

OPTIONAL ACCESSORIES

| Programming Cable | Earpiece |

SPECIFICATION

General	
Frequency Range	VHF:136-174MHz ; UHF:350-400MHz/400-480MHz/450-520MHz
Channel Capacity	TD505:1024 TD506:32
Zones	TD505:64 TD506:2
Channel Spacing	12.5KHz
Working Voltage	DC 7.4V(±20%)
Frequency Stability	±1.5ppm
Antenna Impedance	50Ω
Battery Acerage Working Time (5/5/90)	Digital 18 hours: Analog 14 hours
Weight	TD505:239g TD506:216g(including battery packs)
Battery Capacity	1800mAh(Li-pol battery)
Dimensions	TD505:57(L)*30(W)*105(H)mm TD506:57(L)*30(W)*105(H)mm

Transmitter	
Power Output	H: 5W / L: 1W
4FSK Modulation	12.5KHz data only: 7K60FXD; 12.5KHz data and voice: 7K60FXE;
FM Modulation	12.5KHz:8K50F3E
Modulation Limitation	+/-2.5KHz @ 12.5KHz; +/-5KHz @ 5KHz
FM Noise	-40dB
Spurious Emission	-36dBm≤1GHz; -30dBm≥1GHz
Adjacent Channel Power	≤-60dB
Frequency Response	+1/-3dB
Audio Distortion	<3%
Vocoder	AMBR+2™

Receiver	
Digital Sensitivity	5%BER:0.25uV
Analog Sensitivity	0.25uV（12dB 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	-57dB

Environmental Specifications	
Working Temperature	-20℃——+60℃
Storage Temperature	-30℃——+85℃
Water Proof	IP54

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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.

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