Specifications

General

Frequency Range	VHF：136–174MHz；UHF：350–390MHz/400–480MHz/450–520MHz
Channel Capacity	TD505：1024 TD506：32
Zones	TD505：64 TD505：2
Channel Spacing	12.5KHz
Working Voltage	DC 7.4V (±20%)
Frequency Stability	±1.5ppm
Antenna Impedance	50Ω
Battery Average Working Time (5/5/90)	Digital 18 hours; Analog 14 hours
Weight	TD505: 239g TD506: 216g (including battery packs)
Battery Capacity	Real 1800mAh (Li-pol battery)
Dimension	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	-36 dBm≤1GHz -30 dBm≥1GHz
Adjacent Channel Power	≤-60dB
Frequency Response	+1/-3 dB
Audio Distortion	＜3%
Vocoder	AMBE+2™

Receiver

Digital Sensitivity	5% BER：0.25 uV
Analog Sensitivity	0.25 uV (12 dB SINAD)
Intermodulation	60dB
Adjacent Channel Selectivity	60 dB
Spurious Suppression	60 dB
FM Noise	-40dB
Frequency Response	+1/-3 dB
Audio Power	1.5W
Audio Distortion	3% (typical)
Conduction Radiation	-57dBm

Environmental Specifications

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

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

BelFone
Communications for Effciency and Safety

To order in your local place, please contact:

BF-TD505/TD506

DMR DMR Portable

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 bring 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.

Digital/Analog Dual Modes——Smooth Transition

DMR 2 Timeslo:s——Better Frequency Efficiency

FEC& AMBE+2TM Vocoder —— Clear Audio

FC CE RoHS

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BF-TD505/TD506

Commercial DMR Radios

Highlights

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
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.

A Long Battery
BF-TD505/TD506 can function for longer than any conventional analog radio (digital 18hours,analog 14 hours).

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).

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

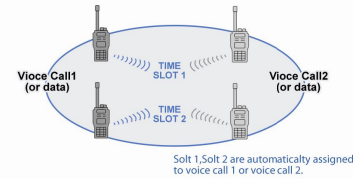### Private call, Group call and All call
The versatile calling functions bring more efficiency to your teamwork.

Transmit Interrupt
This function enables a supervisor to interrupt a radio conversation in order to clear a channel for more important communications..
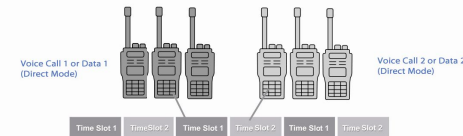
DMO Pseudo Trunk
The user can choose slot 1 or slot 2 for communications. When one slot is occupied the radio will automatically switch into the free slot. Frequency efficiency is greatly increased.

Vioce Call1 (or data) — TIME SLOT 1 — Vioce Call2 (or data)

TIME SLOT 2

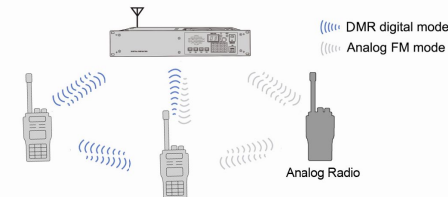Solt 1,Solt 2 are automaticalty assigned to voice call 1 or voice call 2.

DMO True 2-Slot
In direct mode this radio supports two voice calls simultaneously due to DMR two timeslots, which means two communication paths on 1 frequency at no extra costs or frequency license.

Voice Call 1 or Data 1 (Direct Mode)

Voice Call 2 or Data 2 (Direct Mode)

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

Analog Radio

BF-TD506

BF-TD505

Standard Accessories

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

Optional Accessories

| Programming Cable | Earpiece | Super Charger | Speaker Microphone |