BF-TD520

DMR Portable Radio

- Digital/Analog Dual Modes
- A Longer Battery Life
- Small Size and Light Weight
- Excellent Audio Quality
- Private Call, Group Call And All Call (programmable)
- Scan/Monitor(programmable)
- Compatible with Motorola Audio Accessories

BelFone
Communications for Efficiency and Safety

OVERVIEW

BF-TD520 is a cost-efficient DMR portable radio designed for construction sites, hotels, restaurants, malls, etc. BF-TD520 has a comprehensive feature package that includes vast channel capacity, digital encryptions, emergency alerts, digital/analog dual mode, VOX, and low power alert, making it an ideal choice for a wide variety of commercial scenarios.

HIGHLIGHTS AND BENEFITS

High Power

The 5W high transmitting power gives BF-TD520 a longer range and better penetration, able to handle the communication challenges in such environments as tall buildings, large warehouses, hotel complexes, etc. High power also means louder audio, and when the user does not need it he can easily switch the radio into low power mode via the power switch button, which is both flexible and power-efficient.

Voice Encryptions

BF-TD520 comes with voice encryption and scrambling to ensure the user’s information privacy. BF-TD520 communicates only with radios with the same encryption type, effectively cut off unwanted interference while prevent data leakage at the same time.

Emergency Alert

In case of emergency, the user can press the emergency button to ask for help. Moreover, BF-TD520 incorporates lone worker to safeguard the user when he is working by himself. When the user doesn’t operate the radio for a certain length of time, the radio will automatically send out an distress call to prevent the situation from escalating.

Multiple Channels

BF-TD520 supports 16 zones, each with 16 channels. The user can easily switch channels via the programmable side buttons according to his needs, which delivers further convenience and efficiency.

Superior Audio

BF-TD520 adopts narrowband codec and digital error correction technologies to deliver a better audio experience and better anti-interference. The user can enjoy loud and clear voice communications even in a noisy environment or in fringe areas.

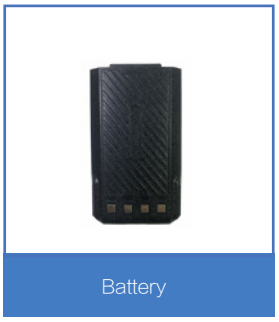
Silence Unknown Callers

BF-TD520 allows the user to filter contacts. It will block out unknown callers to prevent the user from unwanted distractions, which greatly improves the user’s communication efficiency. Moreover, the user can use the programmable button to switch between talkaround and repeater modes. The user can still enjoy PTT communications even if the repeater is down.

REGULAR FEATURES

- VOX
- TOT
- Late Entry
- Auto Scan
- Preset Text
- Call Prompt
- Power Save
- Low Power Alert
- Emergency Alert
- Permanent Monitor
- Repeater/talkaround
- Silence Unknown Callers
- Digital/analog Dual Modes
- Individual Call/ Group Call/ All Call

STANDARD ACCESSORIES


Battery

Belt Clip

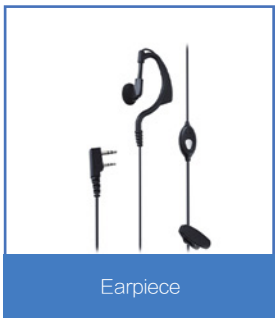
Hand Strap

Stubby Antenna

Charger

OPTIONAL ACCESSORIES

Programming Cable


Earpiece

SPECIFICATION

General	
Optional Frequency Range	VHF:136-174 MHz；UHF:350-400 MHz/UHF:400-480 MHz/UHF:450-520 MHz
Channel Capacity	256
Zones	16
Channel Spacing	12.5KHz/25KHz
Operating Voltage	DC 7.5V
Battery Capacity	2000mAh
Battery Life（5/5/90）	Digital: 20 Hours；Analog: 15 Hours
Frequency Stability	±1.5ppm
Antenna Impedance	50Ω
Dimensions (L×W×H)	59（L）*41 (W) *117 (H)mm
Weight	271g (Including Battery)
Transmitter	
RF Output Power	High：5W；Middle：3W；Low：1W；
4FSK Modulation	12.5kHz Only data：7K60FXD　12.5kHz data and audio：7K60FXE
FM Modulation	12.5 kHz：8K50F3E；　25 kHz：16KΦF3E；
Modulation Limiting	+/- 2.5kHz @ 12.5kHz;　+/- 5kHz @ 25kHz
FM Noise	-40dB
Conducted Emission	-36 dBm≤1GHz/-30 dBm≥1GHz
Adjacent Channel Power	≤-60dB
Audio Response	+1/-3 dB
Audio Distortion	3%
Digital Voice coder Type	AMBE
Receiver	
Digital Sensitivity	5% BER：0.25 uV
Analog Sensitivity	0.25 uV (12 dB SINAD)
Intermodulation	65dB
Adjacent Channel Selectivity	60 dB
Spurious Response Rejection	70 dB
FM Noise	-40dB
Audio Response	+1/-3 dB
Rated Audio output power	0.5W
Max Audio output power	1.2W
Audio Distortion	3% (Typical)
Conducted Spurious Emission	-36dBm
Environmental Specifications	
Working Temperature	-20℃—+60℃
Storage Temperature	-30℃—+85℃

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