



# BF-TD920

## U/V Dual Band DMR Radio

The BF-TD920 U/V dual-band digital two-way radio is designed based on the DMR standard, with improved audio clarity, smooth communication, and user-friendly interface. It delivers enhanced safety, privacy, stability, and data transmission capacity to ensure timely information sharing and efficient response, as well as facilitates effective and organized command and dispatch in challenging scenarios.

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|---|--|
|  UV Dual Band                |  GPS/Bluetooth          |
|  Intelligent Noise Reduction |  Voice Recording        |
|  Full Duplex Call            |  Three Emergency Alarms |
|  IP68 Protection             |  Multiple Encryptions   |







## UV Dual Band

BF-TD920 DMR radio supports U/V dual band and dual standby for enhanced flexibility. The UHF band is ideal for high-density urban areas due to its strong penetration capability, while the VHF band is well-suited for diffusing terrains like plains and wilderness areas. Enables users to switch freely between urban building and complex outdoor areas based on their specific requirements, which can meet various communication needs in different emergency scenarios.

## Full Duplex Communication

BF-TD920 U/V dual-band radio incorporates a whole new full-duplex communication to enhance communication reliability and ensure timely response and efficient command and dispatch.

## Enhanced RF Capacity

With the conventional superheterodyne circuitry design, BF-TD920 brings superior transmission and reception, guaranteeing stable reception across expansive areas. It provides close-range, offline communication and reliable supports for communications in network disruption, limited coverage, and unforeseen natural disaster.

## Intelligent Noise Cancellation

BF-TD920 is equipped a built-in noise reduction module, with adaptive microphone noise reduction technology to filter background noise and suppress feedback. This allows users to deliver clear audio even in noisy environments or adverse outdoor weather conditions.

## 3-Level Regions

BF-TD920 supports 3-level regions setting and 3773 conventional storage channels, allowing manual zone switch and enables swiftly cross-region reinforcement preparation, which enhanced management convenience, and guaranteed reliable communication for promptly respond and cross-region communication.

## Military Standard

BF-TD920 UV has been undergone military standards and IP68 protection. The multiple reinforcement tests on the screen provide it with excellent resistance to impact, vibration, and solar radiation, enabling it to adapt to various harsh environments.

## Multiple Security Alarms

The BF-TD920 DMR radio supports GPS, man down, lone worker, emergency alarm and one key emergency alarm solution to further secure personal safety.

## Multiple Encryption

To further secure communication confidentiality, BF-TD920 supports multiple digital encryptions including XOR encryption, AES256, and ARC4 encryption.

## Rich Functions

The BF-TD920U/V dual-band radio fully considers user experience with series of user-friendly design. Its 2.0-inch semi-transparent screen delivers excellent visual clarity and the full keyboard layout further simplifies operations. Equipped with LED flashlight, stealth mode, TTS, large capacity battery, and optional Bluetooth, and recording to enhance communication experience. Additionally, it seamlessly supports conventional mode, Ad hoc, Belfone dispatch system, etc., which significantly enhanced management convenience and efficiency.



## Functional applications

- TTS
- Individual Call/Group Call/ All Call
- Stealth Mode
- Powerful Flashlight
- Silence Unknowning Call
- Vibration Alert
- 3350mAh Battery (Optional)
- Scan/Priority Scan
- Programming Button
- Positioning/Bluetooth/400 Hours Recording
- Roaming/Monitoring/ Perpetual Monitoring
- Preset Message

## Applications



Military



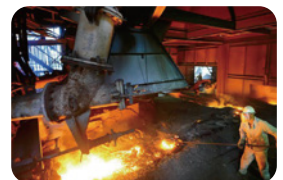
Mountain rescue



Railway



Mine Area



Petrochemical

# SPECIFICATION

General	
Frequency Range(Optional)	VHF:136-174MHz UHF:400-480MHz
Channel Capacity	3773
Zones	3000
Channel Spacing	12.5KHz/25KHz
Working Voltage	DC 7.4V (±20%)
Battery Capacity	2500 mAh
Battery Average Working Time (5/5/90)	21 Hours ( Digital )
Frequency Stability	± 1ppm
Antenna Impedance	50Ω
Dimensions	66 ( L ) * 35(W)* 145 (H)mm
Weight	540g(Including Battery)
Recording (Optional)	400 Hours
Bluetooth (Optional)	BT5.0
Transmission	
Output Power	High Power: 4W / Low Power: 1W
4FSK Modulation	12.5kHz only data: 7K60FXD 12.5kHz data and voice: 7K60FXE
FM Modulation	12.5 kHz: 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/-3 dB
Audio Distortion	3%
Digital Vocoder	AMBE

Receiver	
Digital Sensitivity	5% BER: 0.22uV
Intermodulation	≥60dB
Adjacent Channel Selectivity	≥60dB
Spurious Suppression	≥65 dB
FM Noise	-40dB
Frequency Response	+1/-3 dB
Rated Audio Output	500mW
Maximum Audio Output	1.1W
Rated Audio Distortion	3% (typical)
Conducted Radiation	-57dBm
Positioning Precision	Horizontal Accuracy ≤-10m ( with good signal )
TTFF (First Location ) Cold Boot	< 1 minute
TTFF(First Location) Hot Boot	< 10 second
Environmental Specifications	
Working Temperature	-20℃—+60℃
Storage Temperature	-30℃—+85℃
Moisture Proof	By MIL-STD-810C/D/E/F/G
Vibration & Shock	By MIL-STD-810C/D/E/F/G
Waterproof & Dustproof	IP68

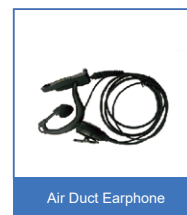
Note: The above specification is tested by the trial standard. Due to the continuous development of technology, the data provided are for reference only.

## PARTS

### STANDARD ACCESSORIES



### OPTIONAL ACCESSORIES



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Communications for Efficiency and Safety

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