

BF-TD937

Digital Two-Way Radio



- Multiple Alarms
- IP68 Protection
- Industrial Design
- Superior Audio Quality
- Long-Distance Coverage
- Advanced Voice Encryption
- Precise Multi-Mode Positioning*
- Single Frequency Repeater (SFR)
- 6/24-Hour Digital Voice Recording*

OVERVIEW

The BF-TD937 digital two-way radio features an industrial rugged design. Its robust form not only enhances durability but also delivers a crisp visual aesthetic. Whether navigating dense urban clusters for unimpeded communication or operating in open spaces or weak signal environments, it consistently delivers clear, robust audio output. Its rich feature set effortlessly handles diverse complex scenarios, while advanced communication technologies provide users with a stable, efficient communication experience, comprehensively boosting communication efficiency.

Industrial Rugged Design

The BF-TD937 digital two-way radio combines industrial aesthetic design in both exterior and structure. Utilizing the superheterodyne circuit structure, it not only showcases a rugged professional feel but also guarantees stable performance and powerful communication signals in complex environments. Equipped with a 1.77-inch full-color display, it provides clear visibility of information, offering the best humanized interactive experience. Its unique acoustic chamber design achieves powerful, transparent voice transmission, ensuring clear command delivery even in noisy environments or at signal coverage edges.



Advanced Voice Encryptions

BF-TD937 supports advanced encryptions, empowered by AES256/ARC4 algorithms, delivers high-strength encryption for communication content, effectively fending off eavesdropping, cracking and signal interception risks. Ideal for scenarios demanding stringent information confidentiality, such as public safety, emergency rescues, security patrols and government & enterprise operations, it significantly enhances communication security and privacy, ensuring maximum protection for voice communication.



Single Frequency Repeater (SFR)

BF-TD937 has stronger signal penetration, equipped with a high-power signal transmission, ensuring wider coverage and better transmission and reception effects. Meanwhile, it supports Single Frequency Repeater (SFR), effectively boosting communication range and expanding coverage in scenarios requiring long-distance signal transmission such as mountainous areas, industrial parks, and large venues. This not only widens the communication range but also helps users efficiently conserve valuable frequency resources. It ensures clear and stable communication among team members even over long distances, guaranteeing timely command transmission and facilitating prompt, smooth task execution.

Multiple Version Options

BF-TD937 supports different versions and modes, including PDT/DMR Conventional, PDT/DMR Trunking, Ad-Hoc, Belfone Smart Digital IP Connect System (SDC) and Belfone Smart Virtual Trunking System (SVT). Users can select the most suitable terminal configuration based on actual operational scenarios, management models, and functional priorities. This guarantees precise and efficient communication support for routine operations, emergency command, and intelligent dispatch applications.

Digital Voice Recording*

BF-TD937 provides 24/6 hour recording versions to meet different scenario requirements. The 24-hour mode supports round-the-clock monitoring, preserving all voice conversations. The 6-hour mode focuses on temporary tasks or key periods, storing critical content. BF-TD937 is equipped with the stealth mode that instantly disables all lights and sounds, completely concealing the device's operational status. Ideal for high-sensitivity, high stealth missions like law enforcement evidence collection and security reconnaissance. It ensures traceable voice records while preventing walkie-talkie exposure.

IP68 Protection

BF-TD937 is built to strict U.S. military standards and achieves the IP68 protection, delivering triple-proof durability against dust, water, and drops. It withstands harsh outdoor challenges like sandstorms, rain, and falls while reliably handling high-intensity industrial environments. This makes it your teams dependable communication backbone for seamless, efficient collaboration even in the most challenging conditions.

Multiple Alarms

BF-TD937 establishes a comprehensive operational safety protection system. In emergencies, personnel can manually trigger a one-touch emergency alarm, instantly sending precise location data and distress signals to teams or the command center. Meanwhile, when personnel unexpectedly fall, the BF-TD937 automatically issues a man-down alarm, enabling passive protection. Additionally, opt for the lone worker mode. If no device operation or movement is detected within a preset timeframe, the system automatically identifies an emergency and sends an alert, providing invisible safety monitoring for independent workers. This three-tiered protection mechanism ensures rescue signals can be promptly transmitted during emergencies, whether through active assistance requests or passive triggers, significantly enhancing personnel safety in complex environments.

OTHER FUNCTIONS

- One-Click Reply
- Priority Interruption
- Conventional Roaming (Optional)
- Individual Call/ Group Call/ All Call
- Vibration Alert/ Low Battery Alarm
- Stealth Mode
- Pre-Set Channel
- Predefined SMS
- Compatible Digital/ Analog
- Programmable Keys
- Busy Channel Lockout
- Type-C Single Charger (for Battery)
- Monitoring/ Permanent Monitoring

Precise Multi-Mode Positioning*

Supports GPS/GLONASS/Galileo and the BDS positioning for fast and accurate acquisition of real-time location information. Not only can the BF-TD937 autonomously record and display coordinates, but it also enables one-touch sending or sharing of positioning information with team members. It supports integration with dispatch command systems for automatic location reporting, enabling precise visual management in operational coordination, safety monitoring, and emergency response. This ensures teams always maintain critical situational awareness of location dynamics.



SPECIFICATION

General	
Frequency Range (Optional)	VHF: 136-174MHz UHF3: 350-400MHz UHF: 400-480MHz
Channel Capacity	1024
Zones	128
Channel Spacing	25 KHz/12.5KHz
Working Voltage	DC 7.4V (±20%)
Battery Capacity	2500mAh
Battery Average Working Time (5/5/90)	Digital: 25Hours Analog: 18Hours
Frequency Stability	± 0.5ppm
Antenna Impedance	50Ω
Dimensions	57 (L) *38 (W) *130 (H) mm
Weight	317g (including battery)
Voice Recording (Optional)	<30Hours
Transmission	
Output Power	≤5W
4FSK Modulation	12.5kHz(data only):7K60FXD 12.5kHz(data and voice):7K60FXE
FM Modulation	12.5 kHz: 8K50F3E 25 kHz: 16K0F3E;
Modulation Limitation	± 2.5kHz@12.5kHz ± 5.0kHz@25kHz
FM Noise	40dB@12.5kHz/45dB@25kHz
Spurious Emission	-36dBm<1GHz/-30dBm>1GHz
Adjacent Channel Power	≤-60dB
Frequency Response	+1/-3 dB
Audio Distortion	≤3%
Digital Vocoder	AMBE

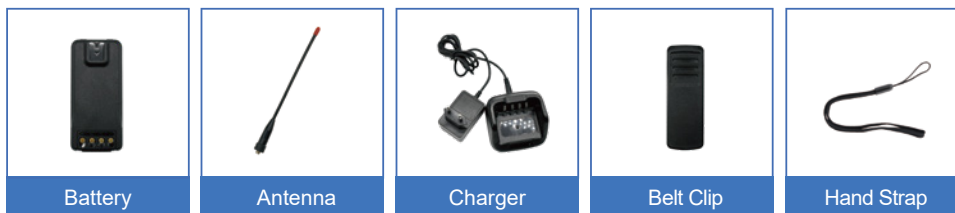
Receiver	
Digital Sensitivity	0.22 μ V /BER5%
Analog Sensitivity	0.22μV (12dB SINAD)
Intermodulation	65dB@12.5/25kHz
Adjacent Channel Selection	60dB@12.5kHz/70dB@25kHz
Spurious Suppression	70dB@12.5/25kHz
FM Noise	40dB @ 12.5kHz; 45dB @ 25kHz
Frequency Response	+1/-3 dB
Rated Audio Power	0.5W
Maximum Audio Power	1.5W
Rated Audio Distortion	5% (Typical)
Conduction Radiation	-57dBm

Environmental Specifications	
Operational Temperature	-30°C ~ +70°C
Storage Temperature	-40°C—+85°C
Dust & Water Proof	IP68

Positioning Systems	
Satellite Positioning Precision	<-10m (CEP50, with good signal)
TTFF(first location) Cold Boot	≤ 1min(with good signal)
TTFF(first location) Hot Boot	≤ 10s(with good signal)

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

STANDARD ACCESSORIES



OPTIONAL ACCESSORIES



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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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