



BF-TD588UV

UV Band Digital Radio

BF-TD588 amateur UV band radio integrates advanced digital technology, delivers excellent dual band transmission capacity, dual frequency standby, clear audio, enhanced features, and offers high playability. Whether for daily communication or outdoor activity use, it provides ham radio operators with stable and efficient communication support.



- 1.8 Inches Display
- UV Dual Band Dual Standby
- Safety Warning & Monitoring
- VFO/MR Mode Switch
- Voice Recording/FM/ Weather Forecast
- APRS Technology
- Large Storage Capacity
- MIC Audio Noise Reduction
- Digital Voice Encryption
- Multimode Satellite Positioning





HIGHLIGHTS AND BENEFITS

User Friendly Design

The BF-TD588UV is built with high-quality engineering material and features a non-slip textured design that ensures a firm grip even in slippery or harsh environments. Equipped with a 1.8-inch display, full numeric keypad, and clear UI this radio brings simpler and more intuitive operation, further enhancing user experience.

APRS (Automatic Packet Reporting System)

BF-TD588UV incorporates analog APRS functionality, allowing it to automatically upload personal information and transmit information in real time without resorting to the network connection. Providing reliable guarantees for operations in mountainous and complex terrain areas lacking communication network coverage, ensuring real-time monitoring of personnel's location, and securing personal safety.

Multimode Positioning

BF-TD588UV supports GPS, Beidou, GLONASS, and Galileo positioning, enabling real-time satellite positioning. Coupled with voice call location display technology, recipients can view the caller direction information through the call interface.

Safety Warning and Monitoring

BF-TD588UV enables multiple alarms and personal safety monitoring, including on-key alert, lone worker, and man down. Allowing automatic emergency alarm uploading to secure personal safety at first time, and nip risks in the bud.

Large Storage Capacity

BF-TD588 supports 4000 channels and 64 zones, enhancing communication stability and reliability, allowing flexible channel switches, and avoiding busy channel/interference issues. The address books can store up to 2000 contacts, enabling group management and facilitating one-touch call.

VFO/MR Mode

The BF-TD588UV supports VFO/MR mode switch. When in VFO mode, rotate the channel encoder or directly input frequencies in the numeric keypad to adjust frequencies, and rotate the channel encoder to switch channels when in MR mode, providing convenience for users to switch channels based on communication requirements.

MIC Audio Noise Reduction

The BF-TD588 UV is equipped with the built-in MIC audio noise reduction module that eliminates or reduces background noise and further enhances signal clarity and intelligibility. Significantly improves call quality and audio recognition capabilities, providing clear audio even in noisy environments.

Multiple Encryptions

BF-TD588UV features advanced AES256/ARC4 encryption to encrypt audio and data signals, ensuring communication privacy and information security.

Dual Standby

BF-TD588 is a dual-band amateur radio that features good communication effect, supports UHF and VHF single and dual standby switching, featuring excellent communication effectiveness. The UHF band delivers clear audio in urban areas communication due to its strong penetration capability, while the VHF band brings an extended communication range for communications in wilderness areas.

NOAA Broadcast

BF-TD588 supports NOAA weather forecasting and warning, allowing it to scan hazardous weather channels nearby and transmit to your area even without mobile phone services. When the weather emergency alert function is on, the radio will automatically push warnings from designated NOAA broadcast stations. This is particularly useful for hikers, climbers, campers, and other outdoor users.

Rich Functionality

The BF-TD588UV dual-band amateur digital radio is designed with extensive features catering to outdoor users, supporting weather forecasting, FM radio, 15-hour recording, etc. In outdoor settings, it's suitable for receiving broadcasts and weather updates. Additionally, it supports optional Bluetooth peripherals for a more user-friendly experience, handling communication needs with ease, making it the ideal choice for both outdoor activities and commuting.



REGULAR FUNCTIONS

- Roam
- Covert Mode
- Priority Interrupt
- IP54 Protection
- Shielding Protection
- Compatible Digital& Analog
- Programmable Button
- Sent Preset Message
- Speed Dial
- Bluetooth (5.0)
- Individual Call/Group Call/All Call

○ Represents optional features

APPLICATION SCENARIO



Climbing/Hiking



Traveling/Camping



Driving



Outdoor Activities

SPECIFICATION

General	
Frequency Range(Optional)	136-174 MHz/400-480 MHz
Mode	DMR
Channels	4000
Zones	64
Channel Spacing	12.5KHz/25KHz
Working Voltage	DC 7.4V (±20%)
Battery Capacity	2000 mAh
Average Battery Working Hours(5/5/90)	Digital 21 Hours Analog 15 Hours
Frequency Stability	±0.5ppm
Antenna Impedance	50Ω
Current	RX: 300mA / TX: 800mA
Display	TFT, 128*160RGB, 1.77 inches
Keypad	18 buttons on front
Dimensions	58 (L) * 36 (W) * 121 (H) mm
Weight	288g(including battery)
Recording	15 Hours
Bluetooth (Optional)	BT5.0
Transmission	
Output Power	<5W
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
Emission Spurious	-36 dBm≤1GHz/-30 dBm≥1GHz
Adjacent Channel Power	≥60dB
Frequency Response	+1/-3 dB
Free time slot power	≤-57dBm
Digital Vocoder	AMBE

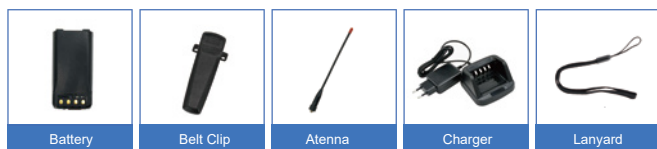
Receiving	
Digital Sensitivity	5% BER: 0.22uV
Analog Sensitivity	0.165uV (12dB SINAD)
Intermodulation	≥65dB
Adjacent Channel Selectivity	≥60dB
Spurious Suppression	≥65 dB
FM Noise	-40dB
Frequency Response	+1/-3 dB
Rated Audio-Frequency output power	0.5W
Maximum Audio-Frequency output power	2W
Rated Audio-Frequency Distortion	3% (Typical)
Harmonic suppression	≤-57dBm
If Rejection	≤70dBm
Co-Channel Rejection	≤70dBm
Image Rejection	≤70dBm
Conducted Radiation	≤-57dBm
Spurious radiation	≤-57dBm
Blocking	≤90dBm
Environmental	
Working Temperature	-20℃—+60℃
Storage Temperature	-30℃—+85℃
ESD Protection	±5kV(Contact Discharge) ±8kV (Air Discharge)
Moisture Proof	MIL-STD-810G
Shock& Vibration	MIL-STD-810G
Waterproof& Dustproof	IP54
Positioning System	
Satellite Positioning	Horizontal Accuracy≤-2.5m (With good signal)
TTFF(First Locate) Cold Boot	< 1 Minute
TTFF(First Locate)Hot Boot	< 10 Seconds
TTFF Recapture	< 10 Seconds

STATEMENT:

1. Due to continuous product improvement, the technical parameters and functional features may not be consistent with the actual product. Please refer to the actual product. If there is any change, we will not notify you separately. Please understand.
2. If you have other questions about this product or the content of this document is not detailed enough, please contact us.

PARTS

STANDARD ACCESSORIES



OPTIONAL ACCESSORIES



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