



BF-TR925D

DMR UV DUAL BAND REPEATER/ ENCRYPTED BASE RADIO SET

- Multi Working Mode, Highly Integrated
- Versatile Connectivity to Suitable for Challengeable Situations
- Dual Band Interoperability, Communicate in an Instant
- IP68 for water and dust protection.
- Rugged and robust, designed as per MIL-STD-810F/G
- Advanced privacy with AES256/ARC4 digital encryption.
- Modular design, easy to maintain and repair.
- Flexible and power self-adaptive by different installation:
- ID Authentication for Air Interface



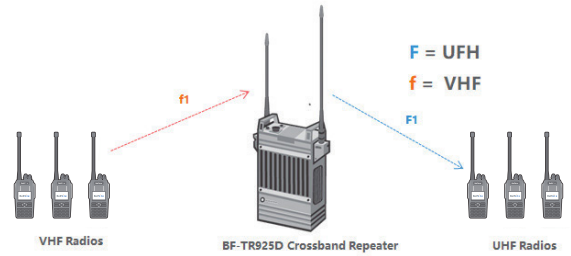
OVERVIEW

BF-TR925D portable dual band repeater is specially designed for the rapid deployment of emergency response which could be vehicle mounted and man packed with military standard, sturdy and durable quality. It could work with BF-TR900 digital repeater and BF-TR925 portable repeater, as well as networking independently, to realize hierarchical network, hierarchical command, and extend communication distance. What's more, different frequency of various departments could get in same network, enable organizations to efficiently organize and share their resources during response operations, all in one communication network to realize wide cooperation.

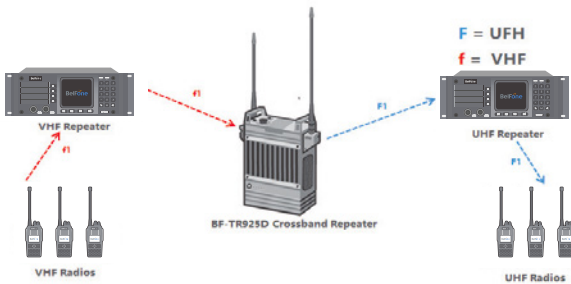
HIGHLIGHTS AND BENEFITS

Multi Working Mode, Highly Integrated

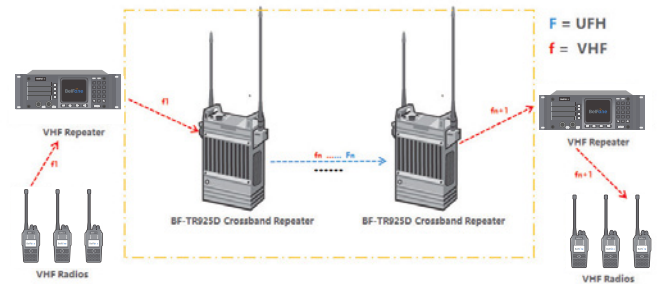
- DMR single frequency repeater (12.5KHz bandwidth, for UV both)
- DMR/Analog UV cross band repeater
- DMR base radio (DMR Tier I, II)
- Analog base radio (for UV both)



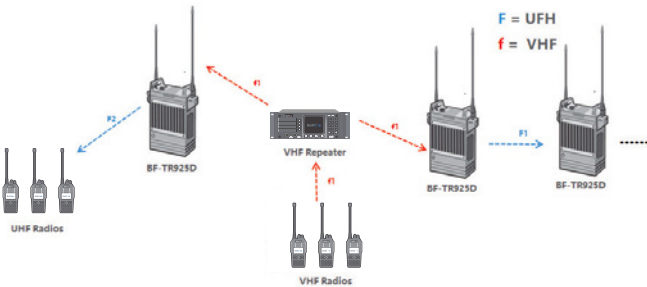
Different frequency radios connect via crossband repeater



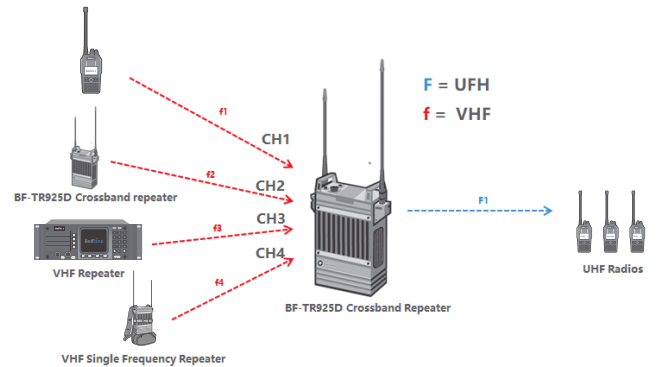
Different frequency repeaters connect via crossband repeater



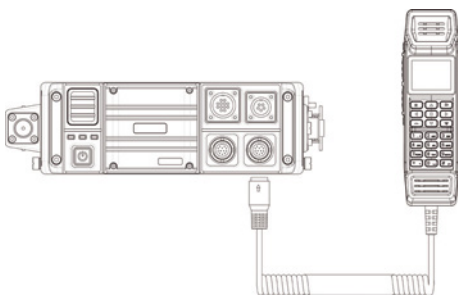
Different areas repeaters connect via multi crossband repeaters



Last-Mile communication expansion



Hybrid Networks



1. Connect with remote controller microphone BF-TC981 to enjoy PTT function as a DMR or analog radio.
2. Support 4G SIM card to realize public network phone call.

Versatile Connectivity to Suitable for Challengeable Situations

- 4G wireless communications link
- Satellite communication link
- Narrowband communication link
- IP connectivity for multi sites connection

Dual Band Interoperability, Communicate in an Instant

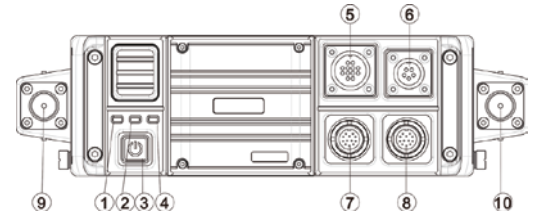
The device is valuable as it performs across multiple digital and analog networks and operates in any of two bands (VHF and UHF) for instant interoperability. Now you can efficiently manage mission critical voice and data in any environment, and significantly improve your safety and response time.

ID Authentication for Air Interface

Only ID-authenticated legitimate terminals can activate repeaters for voice and data service forwarding, thus avoiding illegal users from stealing and occupying channel resources and affecting normal communications.

FEATURES AND DETAILS

- IP68 for water and dust protection.
- Rugged and robust, designed as per MIL-STD-810F/G.
- Advanced privacy with AES256/ARC4 digital encryption.
- Modular design, easy to maintain and repair.
- Flexible and power self-adaptive by different installation:
 - Manpack with battery mode (with manpack kit, output power 3-15W)
 - Desktop/vehicular mode (with AC/DC mounting kit, output power 5-25W)
- IP connectivity multi sites connection (with specialized Ethernet cable).
- Full duplex communication as DMR base radio (with remote control microphone).
- Inbuilt GPS, convenient position tracking(optional).
- Ad Hoc networking function(optional):
 - Single band networking to realize multi-cascade jump, cover last mile communication.
 - Dual band networking to realize multi-cascade jump, links and connect two Ad Hoc networks.
- Self-destructing function to turn data to dust on command in case of information leakage.
- Power-on password to ensure information security.



1	Frequency A TX/RX
2	Frequency B TX/RX
3	Power Switch/Power Indicator
4	Network Activity Indicator
5	ACC Port
6	Lan Port
7	Mic Port 1
8	Mic Port 2
9	Antenna Port 1
10	Antenna Port 2

STANDARD ACCESSORIES



Folding High Gain Antenna



Rechargeable Battery (16AH/185WH)



Programming Cable



Battery Fast Charger

OPTIONAL ACCESSORIES



Aerial Ethernet Cable



Remote Controller Microphone



Flexible Repeater Antenna



Rechargeable Battery (30AH / 345WH)



Manpack with Mounting Holder



Vehicular Hub with AC/DC power supply

SPECIFICATION

General	
Frequency range	VHF: 136-174MHz UHF: 350-400MHz / 400-480MHz / 450-520MHz
Number of channels	3776
Channel spacing	12.5KHz /25KHz
Antenna impedance	50Ω
Operating voltage	Vehicle-mounted: DC13.8V(± 15%), negative grounded Manpack type: 10.8-12.6V
Current consumption	< 6A
Operating environment	-30°C ~ +70°C
Storage temperature	-40°C ~ +85°C
Volume	302mm(L)*218mm(W)*76mm(H) (excluding antenna and antenna pedestal)
Weight	≤5.3kg (including battery)
Emission	
RF power	Vehicle-mounted: 5-25W (continuous emission) Manpack type: 3-15W (continuous emission)
Frequency stability	≤0.5ppm
4FSK digital modulation	12.5KHz only data: 7K60FXD / 12.5KHz data and voice: 7K60FXW
Power of adjacent channel	≤60dB
Spurious emission	-36dBm<1GHz / -30dBm>1GHz
Digital voice encoder	AMBE++
Receiving	
Sensitivity	3%BER≤0.35uV
Frequency stability	≤0.5ppm
Adjacent channel selectivity	≥60dB
Intermodulation immunity	≥65dB
Spurious response	≥70dB
Blocking	≥90dB
Rated audio output power	This device includes no speaker, and the microphone can be connected.
Environmental Specifications	
Working Temperature	-30°C~+70°C
Storage Temperature	-40°C~+85°C
Vibration & Shock	MIL-STD-810G Standard
Humidity	MIL-STD-810G Standard
Dustproof & waterproof	IP68

APPLICATION



Armed Foece / Army



Forest Fire Defense



Emergency Rescue



Public Security

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