



V1

Conventional Portable Radio

Main Functions:

- Clear Audio
- Multiple Scan Function
- Low Battery Alert
- Compact & Rugged Structure
- Li-poly Battery



SPECTRUM

Features:

- **Clear audio**

This radio has a unique digital chip which offers excellent audio quality and performance.

- **16 channels**

The radio has 16 communication channels, and each channel has its own TX/RX frequency, CTC/DCS and other parameters. The radio can be flexibly grouped with other radios and communication with different teams, thereby largely improving working efficiency.

- **Scan function**

The channel scan feature enables the radio to continuously scan each channel in the scan list for activity. When channel to channel 16, the radio will go to scan. When activity is detected on a channel the scan process will stop and you will hear the transmission.

- **High/low power**

High/low power could be optional by programming.

- **CTCSS/DCS**

Built-in CTCSS/DCS Encoder/Decoder can prevent co-channel interference and unwanted conversations on the same channel.

- **BCLO**

BCLO is used to prevent the interference with the on-going conversation. If BCLO is on, the radio will be remaining in receiving status even PTT pressed to avoid interfering with others on conversation.

- **TOT**

TOT can prevent the radio from any potential damage caused by overlong transmission.

- **Auto Power saving**

When this function is enabled, and there is no signal and operation over 16 seconds, the receiving circuit will be in interval power supply status to minimize power consumption automatically.

- **Monitor**

Monitor the current channel to avoid missing important information.

- **Two-color LED indicator**

The indicator lights red while the radio is in transmitting, green while receiving or in the power on status.

- **Unoccupied channel detection**

With this function, the radio will make a continuous alert tone when the unoccupied channel is chosen by switching channel knob.

SPECIFICATIONS

General

Frequency	UHF 400-470 MHz: License Free 446MHz
voltage rating	DC7.5V
Channel Capacity	16
Channel Spacing	12.5KHz/25KHz
Frequency stability	±2.5PPM
Antenna Impedance	50Ω
Dimensions (WxHxD)	51mm x 105mm x 30mm

Receiver

Reference Sensitivity	-0.28 μV (12dB SINAD)
Adjacent channel Selectivity	≥55dB(W)
Intermediation Rejection	≥60dB(W)
Audio Power	>0.5W
Audio Distortion	<5%

Transmitter

RF Power	(UHF) 4W/1W
Operating current	≤1.8A
Modulation sensitivity	16mV
Modulation distortion	<10%
Spurious Response Rejection	≥70dB
Modulation type	16KF03E/!! K0F3E
CTCSS/CDCSS	0.5KHZ±0.1KHZ(W), 0.3KHZ±0.1KHZ(N)

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