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## QUANSHENG TK-118

# Quansheng TK-11(5) / TK-118 Two Way Radio User Manual

Model: TK-118

## INTRODUCTION

This manual provides detailed instructions for the safe and efficient operation of your Quansheng TK-11(5) / TK-118 Two Way Radio. Please read this manual thoroughly before using the device to ensure proper functionality and to prevent damage.

## SAFETY INFORMATION

- **Battery Safety:** Use only the specified battery and charger. Do not short-circuit, incinerate, or disassemble the battery. Dispose of batteries according to local regulations.
- **Antenna:** Do not touch the antenna during transmission. Do not operate the radio with a damaged antenna.
- **Interference:** Turn off the radio in areas where radio devices are prohibited or when interference may occur, such as hospitals, aircraft, or near medical devices.
- **Water Resistance:** The device is IP55 rated for dust and water resistance. This means it can withstand splashes and light rain, but it is not designed for submersion. Ensure all ports are securely covered.
- **Operating Temperature:** Do not expose the radio to extreme temperatures.

## PACKAGE CONTENTS

Please check the package for the following items:

- Quansheng TK-11(5) / TK-118 Two Way Radio Unit
- High Gain Antenna
- Lithium-ion Battery (2500mAh)
- Type-C USB Charging Cable
- Belt Clip
- User Manual / Guide Disc

## PRODUCT OVERVIEW

Familiarize yourself with the components of your radio:

## FUNCTION KEY ANALYSIS



**Image:** Front view of the Quansheng TK-118 radio with labels for its main components, including the High Gain Antenna, Volume/Power Knob, Signal Indicator Light, PTT Key A, PTT Key B, Side Key 1, Side Key 2, Headset/Data Port, Speaker, Microphone, LCD Display, and Operation Keyboard.

- **High Gain Antenna:** For transmitting and receiving signals.
- **Volume/Power Knob:** Turns the radio on/off and adjusts the volume.
- **PTT Key (Push-To-Talk):** Press and hold to transmit, release to receive.
- **Side Keys (1 & 2):** Programmable function keys.
- **LCD Display:** 1.44-inch screen showing frequency, channel, battery status, and other indicators.
- **Operation Keyboard:** Numeric and function keys for input and settings.
- **Headset/Data Port:** For connecting accessories like headsets or programming cables.

## SETUP

### 1. Battery Installation and Charging

The radio comes with a 2500mAh Lithium-ion battery. Ensure the battery is fully charged before first use.

1. Align the battery with the grooves on the back of the radio and slide it into place until it clicks.
2. To charge, connect the Type-C USB charging cable to the radio's Type-C port and plug the other end into a compatible USB power adapter.
3. The charging indicator light will show the charging status. A full charge typically takes approximately 4 hours.



**Image:** The Quansheng TK-118 radio being charged via its Type-C port, illustrating the charging process.

## 2. Antenna Installation

Screw the provided high gain antenna clockwise onto the antenna connector on top of the radio until it is finger-tight. Do not overtighten.

## 3. Initial Power On

Rotate the Volume/Power knob clockwise until you hear a click. The LCD display will light up, indicating the radio is powered on. Continue rotating to adjust the volume.

## OPERATING INSTRUCTIONS

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### 1. Basic Operation

- **Power On/Off:** Use the Volume/Power knob.
- **Volume Adjustment:** Rotate the Volume/Power knob.
- **Transmitting:** Press and hold the PTT key to speak. Release to listen.

### 2. Channel Selection and Frequency Bands

The radio supports 999 channels and operates across multiple frequency bands.

- **Channel Mode:** Use the arrow keys or numeric keypad to select a channel.
- **Frequency Mode:** Manually input frequencies using the numeric keypad.
- **PMR446 Frequencies:** Operates on license-free PMR446 frequencies (446.0-446.1 MHz).
- **VHF/UHF Bands:** Supports 136-174 MHz (VHF) and 400-470 MHz (UHF).
- **Extended Transmitting Bands:** 25-29.8MHz, 50-54MHz, 136-174MHz, 350-490MHz.
- **Wide Receiving Bands:** 0.5-1160MHz.



**Image:** The Quansheng TK-118 radio showcasing its dual receiving capability and multiple transmission/reception frequency bands.

### 3. Advanced Features

- **CTCSS/DCS:** Use Continuous Tone-Coded Squelch System (CTCSS) or Digital-Coded Squelch (DCS) for advanced interference security. Refer to the on-screen menu for settings.
- **Scanning Function:** The radio features an automatic scanning function to detect active channels.
- **SOS Emergency Function:** Activates an emergency alarm. Consult the manual for specific activation steps.
- **VOX (Voice Operated Exchange):** Allows hands-free communication. Adjust VOX sensitivity in the menu.
- **AM/FM/SSB Reception:** The radio supports reception of AM, FM, and SSB signals, including aviation frequency bands.



**Image:** The Quansheng TK-118 radio highlighting its AM/FM reception capabilities, including aviation frequency bands, and support for SSB.

- **One-Click Code Breaking / Frequency Wireless Replication:** This feature allows for easy and convenient frequency replication without the need for a computer.



**Image:** Multiple Quansheng TK-118 radios illustrating the 'One-Click Code Breaking' feature for wireless frequency replication.

- **NOAA Weather Channel Scanning:** Provides reception and alerts for weather channels, offering convenience for outdoor activities.



**Image:** A user operating the Quansheng TK-118 radio in rainy conditions, highlighting its NOAA weather channel scanning and alert capabilities for outdoor use.

## MAINTENANCE

- **Cleaning:** Use a soft, damp cloth to clean the radio's exterior. Do not use harsh chemicals or solvents.
- **Battery Care:** To prolong battery life, avoid fully discharging the battery frequently. Store the radio and battery in a cool, dry place when not in use for extended periods.
- **Water Resistance:** While IP55 rated, always ensure the Type-C port cover is securely closed to maintain water and dust resistance. Avoid intentional submersion.
- **Antenna:** Regularly check the antenna for damage. A damaged antenna can affect performance.

## TROUBLESHOOTING

| Problem                    | Possible Cause  | Solution   |
|----------------------------|---|--|
| Radio does not power on    | Low or dead battery; Incorrect battery installation                                   | Charge the battery; Reinstall the battery correctly  |
| Cannot transmit or receive | Incorrect frequency/channel; Antenna not properly attached; Out of range; Low battery | Verify frequency/channel settings; Check antenna connection; Move closer to other radios; Charge battery |
| Poor audio quality         | Low volume; Weak signal; Interference   | Adjust volume; Move to an open area; Check for sources of interference                                   |
| Battery drains quickly     | Frequent transmission; Old battery; Extreme temperatures                              | Reduce transmission time; Consider replacing battery; Operate in moderate temperatures                   |

## SPECIFICATIONS

| Feature                      | Detail   |
|------------------------------|--|
| Model                        | TK-118   |
| Brand                        | QUANSHENG  |
| Number of Channels           | 999  |
| Frequency Spectrum (VHF)     | 136-174 MHz  |
| Frequency Spectrum (UHF)     | 400-470 MHz  |
| PMR446 Frequencies           | 446.0-446.1 MHz (License-free)                     |
| Transmitting Power           | 10W (Dual band VHF/UHF)                            |
| Maximum Talk Range           | Up to 8 km (in open areas)                         |
| Water Resistance Level       | IP55 (Resistant to heavy rain and dust)            |
| Battery Type                 | Lithium-ion  |
| Battery Capacity             | 2500 mAh   |
| Battery Life (Communication) | Approx. 4 hours                                    |
| Battery Life (Standby)       | Approx. 72 hours                                   |
| Charging Port                | Type-C USB   |
| Compatible Devices           | USB-C chargers, voice-activated headsets/earphones |
| Dimensions                   | 23 x 22 x 9 cm (Package)                           |
| Item Weight                  | 750 g  |

## WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or contact the retailer. Keep your proof of purchase for any warranty claims.