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SOCOTRAN T82

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Model: T82 | Brand: SOCOTRAN

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1. INTRODUCTION

This manual provides detailed instructions for the safe and efficient operation of your SOCOTRAN T82 PMR446 Walkie Talkie. Please read this manual thoroughly before using the device and retain it for future reference.

The SOCOTRAN T82 is a license-free PMR446 two-way radio designed for reliable communication over short to medium distances. It features 16 channels, a rechargeable battery, and includes a wireless earpiece for hands-free operation, making it suitable for various outdoor activities and professional use.

2. PACKAGE CONTENTS

Verify that all items listed below are included in your package. If any items are missing or damaged, please contact your retailer.

- 2 x SOCOTRAN T82 PMR Radios
- 2 x Li-ion Batteries
- 2 x Wireless Headphones (Earpieces)
- 2 x Micro-USB Charging Cables
- 2 x User Manuals
- 2 x Dock Chargers
- 2 x Battery Covers

3. PRODUCT OVERVIEW

Familiarize yourself with the components and controls of your SOCOTRAN T82 Walkie Talkie.



Image: Front view of the SOCOTRAN T82 Walkie Talkie with key components labeled, including Antenna, Power/Volume Knob, TX/RX LED Indicator, Push-to-Talk (PTT) button, Accessory Port, Microphone, Flashlight Button, Micro-USB Charging Port, Easy Pairing/Bluetooth button, Scan/Monitor button, Call Tone button, Emergency Button, Menu/Lock button, and Speaker.

- **Antenna:** For transmitting and receiving signals.
- **Power/Volume Knob:** Rotate to turn the radio on/off and adjust volume.
- **TX/RX LED Indicator:** Lights up during transmission (TX) or reception (RX).
- **Push-to-Talk (PTT) Button:** Press and hold to transmit your voice.
- **Accessory Port:** For connecting external audio accessories (e.g., wired earpiece).
- **Microphone:** Captures your voice during transmission.
- **Flashlight Button:** Activates the built-in flashlight.
- **Micro-USB Charging Port:** For direct charging of the radio.
- **Easy Pairing/Bluetooth Button:** For pairing with the wireless earpiece.
- **Scan/Monitor Button:** Initiates channel scanning or monitors current channel for weak signals.
- **Call Tone Button:** Sends an alert tone to other radios.

- **Emergency Button (SOS):** Activates an emergency alert.
- **Menu/Lock Button:** Accesses menu settings or locks the keypad.
- **Speaker:** Outputs received audio.

4. SETUP

4.1 Battery Installation and Charging

The T82 walkie talkie uses a rechargeable Li-ion battery. It can also be powered by 3 AA batteries (not included) as an alternative.



Image: A visual guide demonstrating how to install the Li-ion battery or 3 AA batteries into the SOCOTRAN T82 walkie talkie, along with illustrations of USB cable charging and dock charger usage.

1. **Install Battery:** Open the battery compartment cover on the back of the radio. Insert the supplied Li-ion battery pack, ensuring correct polarity. Alternatively, insert 3 AA batteries. Close the battery cover securely.
2. **Charging via Dock Charger:** Place the walkie talkie into the provided dock charger. Connect the micro-USB

charging cable to the dock charger and then to a USB power source (e.g., wall adapter, computer, car charger). The charging indicator light will show charging status.

3. **Charging via Micro-USB Cable:** Connect the micro-USB charging cable directly to the Micro-USB Charging Port on the side of the walkie talkie and then to a USB power source.
4. **First Use:** For optimal battery performance, fully charge the battery before first use.

4.2 Pairing Wireless Earpiece

The T82 comes with a wireless earpiece for hands-free communication. The earpiece has a working range of up to 10-15 meters from the walkie talkie and a working time of 5-8 hours.



Image: A person wearing the wireless earpiece while hiking, with the SOCOTRAN T82 walkie talkie attached to their backpack, illustrating hands-free communication.

1. **Turn on Earpiece:** Power on the wireless earpiece. It should enter pairing mode automatically (often indicated by a flashing LED).
2. **Activate Bluetooth on Radio:** Press the "Easy Pairing/Bluetooth" button on the walkie talkie. The radio will search for nearby Bluetooth devices.
3. **Confirm Pairing:** Once the earpiece is detected, the radio's display may show a pairing confirmation. Follow any on-screen prompts or refer to the earpiece's specific instructions for final pairing.
4. **Usage:** After successful pairing, audio will be routed through the earpiece, and you can use the earpiece's button to transmit (if supported) or the radio's PTT button.

5. OPERATING INSTRUCTIONS

5.1 Power On/Off and Volume Adjustment

- **Power On:** Rotate the Power/Volume Knob clockwise until you hear a click. The display will light up.
- **Power Off:** Rotate the Power/Volume Knob counter-clockwise until you hear a click. The display will turn off.
- **Volume Adjustment:** Rotate the Power/Volume Knob clockwise to increase volume and counter-clockwise to decrease volume.

5.2 Channel Selection

The T82 has 16 PMR446 channels. To communicate with another walkie talkie, both devices must be on the same channel and privacy code (CTCSS/DCS).

- Use the Up/Down arrow buttons to select your desired channel.
- The selected channel number will be displayed on the screen.

5.3 Transmitting and Receiving

- **To Transmit:** Press and hold the Push-to-Talk (PTT) button. Speak clearly into the microphone, holding the radio approximately 5-10 cm from your mouth. Release the PTT button when you finish speaking.
- **To Receive:** Ensure the PTT button is not pressed. The radio will automatically receive transmissions on the selected channel.

5.4 Key Features

- **Vibration Reminder:** The unique vibration function alerts you to incoming calls in noisy environments, preventing missed communications.



Image: The SOCOTRAN T82 walkie talkie on a desk, with visual cues indicating vibration, highlighting the "Super vibration reminder" feature.

- **VOX Function:** Voice-activated transmission allows you to communicate without pressing the PTT button. Activate VOX through the menu settings. Adjust VOX sensitivity as needed.
- **Built-in Flashlight:** Press the Flashlight Button to turn the integrated flashlight on or off. Useful for low-light conditions.



Image: The SOCOTRAN T82 walkie talkie in a dark outdoor setting, with its flashlight beam visible, demonstrating the flashlight function.

- **Scan Function:** Press the Scan/Monitor button to scan active channels. The radio will stop on an active channel. Press again to resume scanning.
- **Monitor Function:** Press and hold the Scan/Monitor button to temporarily disable squelch and listen for weak signals on the current channel.
- **CTCSS/DCS Privacy Codes:** Use these codes to filter out unwanted conversations on a channel. Both radios must use the same channel and CTCSS/DCS code to communicate. Access these settings via the Menu button.
- **Keypad Lock:** Press the Menu/Lock button to lock the keypad and prevent accidental setting changes. Press again to unlock.
- **Roger Beep:** An audible tone that sounds when you release the PTT button, signaling to other users that you have finished transmitting. This can be enabled/disabled in the menu.
- **SOS Emergency Alert:** Press the Emergency Button to activate an audible alert.

6. MAINTENANCE


- **Cleaning:** Clean the radio's exterior with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Battery Care:**
 - Avoid fully discharging the Li-ion battery frequently.
 - Store the radio and battery in a cool, dry place when not in use for extended periods.
 - If using AA batteries, remove them if the radio will not be used for a long time to prevent leakage.
- **Storage:** Store the walkie talkie in a dry, dust-free environment away from direct sunlight and extreme temperatures.
- **Water Resistance:** The device is not water-resistant. Avoid exposure to water or high humidity.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No power	Battery is dead or incorrectly installed.	Charge the battery or replace AA batteries. Ensure battery is installed correctly.
Cannot transmit or receive	Different channels/privacy codes, out of range, low battery.	Ensure both radios are on the same channel and CTCSS/DCS code. Move closer. Charge battery.
Poor audio quality / Static	Out of range, interference, low battery, squelch level too low.	Move closer to the other radio. Avoid obstacles. Charge battery. Adjust squelch level in menu.
Wireless earpiece not connecting	Earpiece not in pairing mode, out of range, earpiece battery low.	Ensure earpiece is charged and in pairing mode. Re-initiate pairing process. Move earpiece closer to radio.
Keypad locked	Keypad lock function is active.	Press the Menu/Lock button to unlock the keypad.

8. SPECIFICATIONS

Model Number	T82
Brand	SOCOTRAN
Frequency Range	446 MHz (PMR446)
Number of Channels	16

<p>Maximum Talk Range</p>	<p>Up to 10 Kilometers (6.2 miles) in optimal conditions (flat terrain). Typical range: 3-5 miles (flat), 2-3 miles (mountain), 1-1.5 miles (urban).</p>  <p>Image: A diagram showing the estimated communication range of the walkie talkie in different environments: 3-5 miles in flat areas, 2-3 miles in mountains, and 1-1.5 miles in urban areas.</p>
<p>Battery Type</p>	<p>1400 mAh Li-ion (included), compatible with 3 AA batteries (not included)</p>
<p>Voltage</p>	<p>3.7 VDC</p>
<p>Product Dimensions</p>	<p>15.24 x 5.08 x 2.54 cm (6 x 2 x 1 inches)</p>
<p>Item Weight</p>	<p>100 Grams</p>
<p>Water Resistance Level</p>	<p>Not water resistant</p>
<p>Special Features</p>	<p>Long range, Rechargeable, Wireless earpiece, Vibration reminder, VOX, Flashlight, Scan, Monitor, CTCSS/DCS, Keypad Lock, Roger Beep, SOS</p>
<p>Tuner Technology</p>	<p>UHF</p>
<p>Connection Protocol</p>	<p>Analog FM</p>
<p>Sound Level</p>	<p>60 Decibels</p>
<p>International Protection Rating</p>	<p>IP65</p>

Note: While the specifications list an IP65 rating, the product description indicates the device is not water resistant. Please avoid exposure to water. The IP65 rating primarily refers to dust protection and protection against low-pressure water jets, not immersion.

9. WARRANTY AND SUPPORT

9.1 Warranty Information

The SOCOTRAN T82 Walkie Talkie comes with a **365-day warranty** from the date of purchase for the main unit.

Accessories are covered by a **6-month warranty**.
Additionally, a **30-day unconditional return policy** is offered.

9.2 Customer Support

If you have any questions, encounter issues, or require assistance with your SOCOTRAN T82 Walkie Talkie, please do not hesitate to contact customer support. Refer to your purchase documentation or the retailer's website for contact details.

