

Portable Radio

SI4732 Mini Radio Instruction Manual

Model: Portable Radio

1. INTRODUCTION

Thank you for purchasing the SI4732 Mini Radio. This portable radio is designed to provide comprehensive reception across various bands, including AM, FM, LSB, and USB, with a clear color display and long-lasting battery. This manual provides detailed instructions for setting up, operating, and maintaining your radio to ensure optimal performance and longevity.

Please read this manual thoroughly before using the device and keep it for future reference.

Safety Information

- Do not expose the radio to extreme temperatures, direct sunlight, or high humidity.
- Avoid dropping or subjecting the radio to strong impacts.
- Do not attempt to disassemble or modify the radio. This will void the warranty and may cause damage.
- Keep the radio away from water and other liquids.
- Use only the specified charging method (Type-C, non-fast charging).

2. PRODUCT OVERVIEW

2.1 Components

The SI4732 Mini Radio package includes the following components:

- SI4732 Mini Radio Unit
- 70cm Portable Telescopic Antenna
- USB Type-C Charging Cable (not for fast charging)
- Quick Start Guide



Main Control: ESP-32-S3
Receiving band: HF SW MW VHF
Screen: 1.9inch, 170*320
Charging port: TYPE-C (can not use fast charging)
Audio Interface: 3.5mm 3-band stereo
Battery capacity: 800mah

Figure 2.1: Front view of the SI4732 Mini Radio, showing the display, control knob, and extended telescopic antenna.

2.2 Key Features

- **Advanced Technology:** Powered by the ESP32-S3 main control unit with a 1.9-inch IPS HD color screen for clear and vibrant display.
- **Comprehensive Band Support:** Equipped with the SI4732 DSP chip, supporting LSB, USB, AM, and FM modes across all broadcast bands.
- **Long-lasting Battery Life:** Features an 800mAh built-in battery, providing over 10 hours of continuous playtime.
- **Enhanced Reception:** Includes a 70cm portable telescopic antenna for excellent signal reception.
- **Durable Design:** Robust PETG 3D printed casing ensures durability and a lightweight design.

Using SI4732 DSP chip, support broadcast full band,
LSB USB AM FM mode.

Shell petg 3D printing



Figure 2.2: The SI4732 Mini Radio's compact design, suitable for various environments.

3. SETUP

3.1 Charging the Battery

Before first use, fully charge the radio's internal 800mAh battery. Connect the provided USB Type-C cable to the charging port on the radio and the other end to a standard USB power adapter (not included). The screen will indicate charging status. A full charge provides over 10 hours of operation.

Note: This device does not support fast charging. Using a fast charger may damage the battery.

High-capacity battery



Figure 3.1: The radio's built-in 800mAh battery provides extended playtime.

3.2 Attaching the Antenna

Screw the 70cm portable telescopic antenna into the SMA connector on the top of the radio. Extend the antenna fully for optimal reception, especially for FM and shortwave bands. For local AM broadcasts, the internal ferrite antenna is often sufficient, and the telescopic antenna may not need to be extended.



Figure 3.2: The telescopic antenna attached to the radio.

3.3 Initial Power On

Press and hold the control knob (usually located on the right side) for a few seconds to power on the radio. The IPS HD color screen will light up, displaying the current frequency, mode, and other relevant information.

4. OPERATING INSTRUCTIONS

4.1 Basic Controls

The radio is primarily controlled by a single multi-function encoder knob. This knob can be rotated to adjust frequency or volume, and pressed to select options or change modes.

- **Rotate Knob:** Adjusts frequency or navigates menu options.
- **Press Knob (Short Press):** Confirms selection, changes tuning step, or cycles through modes depending on context.
- **Press Knob (Long Press):** Powers on/off, or enters/exits menu settings.

4.2 Tuning to Stations

The radio supports multiple bands and modes:

- **AM (Amplitude Modulation):** For standard broadcast radio.
- **FM (Frequency Modulation):** For standard broadcast radio.

- **LSB (Lower Sideband):** For single-sideband communications, often used in amateur radio.
- **USB (Upper Sideband):** For single-sideband communications, often used in amateur radio.

To change the band or mode, typically a short press of the control knob will bring up a menu or cycle through options. Rotate the knob to select the desired band/mode, then press again to confirm. Once the band/mode is set, rotate the knob to tune to the desired frequency. The display will show the current frequency.



Figure 4.1: The radio's display showing tuning information.

4.3 Adjusting Volume

While listening, rotate the control knob to adjust the volume level. The current volume level will be displayed on the screen.

4.4 Using the Headphone Jack

The radio features a 3.5mm 3-band stereo audio interface. Plug your headphones into the headphone jack for private listening. The internal speaker will automatically mute when headphones are connected.

4.5 Display Information

The 1.9-inch IPS HD color screen provides real-time information, including:

- Current Frequency

- Selected Band (e.g., 10M)
- Operating Mode (AM, FM, LSB, USB)
- Signal Strength Indicator
- Volume Level
- Battery Level Indicator
- RDS (Radio Data System) information for FM stations, if available.

Your browser does not support the video tag.

Video 4.2: Demonstration of the SI4732 Mini Radio's features and display in use. This video shows the radio's compact size and its clear color screen, highlighting its portability and ease of use in various settings.

5. MAINTENANCE

5.1 Cleaning

To clean the radio, use a soft, dry cloth. For stubborn dirt, slightly dampen the cloth with water. Do not use abrasive cleaners, solvents, or strong chemicals, as these can damage the casing and screen.

5.2 Storage

When not in use for extended periods, store the radio in a cool, dry place, away from direct sunlight and extreme temperatures. It is recommended to fully charge the battery before storing and to recharge it every few months to maintain battery health.

5.3 Battery Care

To prolong the life of the built-in 800mAh battery:

- Avoid completely draining the battery regularly.
- Do not leave the radio connected to a charger for excessively long periods after it is fully charged.
- Charge the battery at room temperature.

6. TROUBLESHOOTING

If you encounter issues with your SI4732 Mini Radio, please refer to the following table for common problems and their solutions:

Problem	Possible Cause	Solution
Radio does not power on.	Battery is depleted.	Connect the radio to a USB power source using the provided Type-C cable and charge it.
Poor reception or static.	Antenna not extended, weak signal, or interference.	Fully extend the telescopic antenna. Try repositioning the radio or moving to a different location away from electronic devices that may cause interference.
No audio from speaker/headphones.	Volume too low, headphones not fully inserted, or faulty headphones.	Increase the volume. Ensure headphones are fully plugged in. Test with a different pair of headphones.

Problem	Possible Cause	Solution
Screen is blank or frozen.	Software glitch.	Press and hold the power button (control knob) for 10-15 seconds to force a restart. If the issue persists, allow the battery to fully drain and then recharge.

7. SPECIFICATIONS

Detailed technical specifications for the SI4732 Mini Radio:

Feature	Detail
Main Control Unit	ESP32-S3
DSP Chip	SI4732
Screen	1.9-inch IPS HD Color Screen
Supported Bands	LSB, USB, AM, FM (6-Band Support)
Antenna	70cm Portable Telescopic Antenna
Battery Capacity	800mAh (Built-in)
Battery Life	Over 10 hours (continuous playtime)
Charging Port	USB Type-C (does not support fast charging)
Audio Interface	3.5mm 3-band stereo headphone jack
Product Dimensions	3.94 x 0.47 x 2.87 inches (10 x 1.2 x 7.3 cm)
Item Weight	4.1 ounces (116 grams)
Casing Material	PETG 3D Printed Shell



Figure 7.1: Physical dimensions of the SI4732 Mini Radio.

8. WARRANTY AND SUPPORT

This product is manufactured by MyHouseware under the Generic brand. For any warranty claims, technical support, or inquiries not covered in this manual, please contact the seller or the manufacturer directly through your purchase platform.

Please retain your proof of purchase for warranty purposes.