

## SI4732 Mini Radio Receiver

# Generic SI4732 Mini Radio Receiver User Manual

Portable AM/FM/LSB/USB Shortwave Radio

## 1. INTRODUCTION

This manual provides comprehensive instructions for the operation and maintenance of your Generic SI4732 Mini Radio Receiver. Please read this manual thoroughly before using the device to ensure proper function and to maximize your listening experience. This portable radio is designed for receiving a wide range of radio frequencies, including AM, FM, LSB, USB, and shortwave bands.

## 2. PRODUCT OVERVIEW

### 2.1 Key Features

- Full-Band Radio Reception:** Supports AM, FM, LSB, USB, and shortwave bands (0.5-108 MHz) with a SI4732 DSP chip for superior signal reception.
- High-Quality Color Display:** Features a 1.9-inch IPS HD color screen (170\*320 resolution) for clear display of station details and settings.
- Long-Lasting Rechargeable Battery:** Equipped with a built-in 800mAh battery, providing over 10 hours of continuous operation on a single charge.
- Portable and Compact Design:** Compact pocket-sized design with a durable 3D-printed PETG case, ideal for indoor and outdoor use.
- Enhanced Reception:** Includes a portable loop antenna covering 9.9 kHz to 108 MHz for improved signal reception.
- Versatile Connectivity:** Features a Type-C charging port and a 3.5mm headphone jack for private listening.

### 2.2 Package Contents

Upon unpacking, please verify that all items listed below are present:

- SI4732 Mini Radio Receiver Host (1 unit)
- External Antenna (1 unit)
- USB Charging Cable (1 unit)



Image 2.2.1: The SI4732 Mini Radio Receiver, showing the main unit, external telescopic antenna, and USB charging cable.

## 3. SETUP

### 3.1 Initial Charging

Before first use, fully charge the radio's internal 800mAh battery. Connect the provided USB charging cable to the Type-C port on the radio and to a standard USB power source (e.g., computer USB port, USB wall adapter). The charging indicator on the screen will show the charging status. Note that fast charging is not supported.

### 3.2 Antenna Connection

For optimal reception, connect the external antenna to the SMA connector on the top of the radio. Ensure the connection is secure. The radio also features a built-in loop antenna for certain frequency bands.



Image 3.2.1: The radio with its telescopic antenna extended, ready for use.



Image 3.2.2: The radio connected to the external loop antenna, which enhances reception across various bands.

## 4. OPERATING INSTRUCTIONS

### 4.1 Power On/Off

Locate the power button, typically on the side or front panel. Press and hold the button for a few seconds to power the device on or off. The IPS display will illuminate upon power-on.

### 4.2 Band Selection

The radio supports multiple frequency bands: AM, FM, LSB, USB, and Shortwave (HF SW MW VHF). Use the navigation controls (buttons or rotary encoder, depending on model variant) to cycle through available bands. The currently selected band will be displayed on the 1.9-inch IPS screen.

### 4.3 Tuning

Use the rotary encoder (tuning knob) to adjust the frequency. Turning the knob clockwise increases the frequency, while turning it counter-clockwise decreases it. The step size for tuning can often be adjusted through the radio's menu settings for fine or coarse tuning.



Image 4.3.1: The radio displaying its frequency and mode on the IPS screen, with the tuning knob visible.

#### 4.4 Volume Control

Adjust the audio output level using the dedicated volume control, which may be integrated with the tuning knob or a separate button/dial.

#### 4.5 Headphone Use

For private listening, connect standard 3.5mm stereo headphones to the audio interface port. The internal speaker will typically mute automatically when headphones are connected.





Image 4.5.1: Close-up views showing the Type-C charging port, 3.5mm audio jack, SMA antenna connector, and rotary encoder.

## 5. MAINTENANCE

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### 5.1 Cleaning

Wipe the radio's 3D-printed PETG housing with a soft, dry cloth. Avoid using abrasive cleaners, solvents, or harsh chemicals, as these can damage the surface or internal components.

### 5.2 Battery Care

To prolong battery life, avoid fully discharging the battery frequently. Recharge the radio when the battery indicator is low. If storing the radio for an extended period, charge it to approximately 50% and recharge every few months.

### 5.3 Storage

Store the radio in a cool, dry place away from direct sunlight, extreme temperatures, and high humidity. Keep it away from strong magnetic fields.

## 6. TROUBLESHOOTING

- **No Power:** Ensure the battery is charged. Connect the radio to a power source using the USB Type-C cable and attempt to power on.
- **Poor Reception:** Extend the telescopic antenna fully or connect the external loop antenna. Try repositioning the radio or antenna. Check for local interference from electronic devices.
- **No Sound:** Check the volume level. Ensure headphones are not connected if you intend to use the internal speaker. If headphones are connected, ensure they are fully inserted and functional.
- **Screen Not Responding:** Try restarting the device by holding the power button. If the issue persists, ensure the battery is charged.

## 7. SPECIFICATIONS

Main Controller	ESP-32-S3
Receiving Frequency Band	0.5-108 MHz (HF SW MW VHF, AM, FM, LSB, USB)
Screen	1.9-inch IPS Color Display, 170*320 resolution
Charging Port	USB Type-C (does not support fast charging)
Audio Interface	3.5mm Tri-band Stereo Jack
Battery Capacity	800mAh
Weight	Approximately 150g
Housing Material	3D-printed PETG

# Product Size

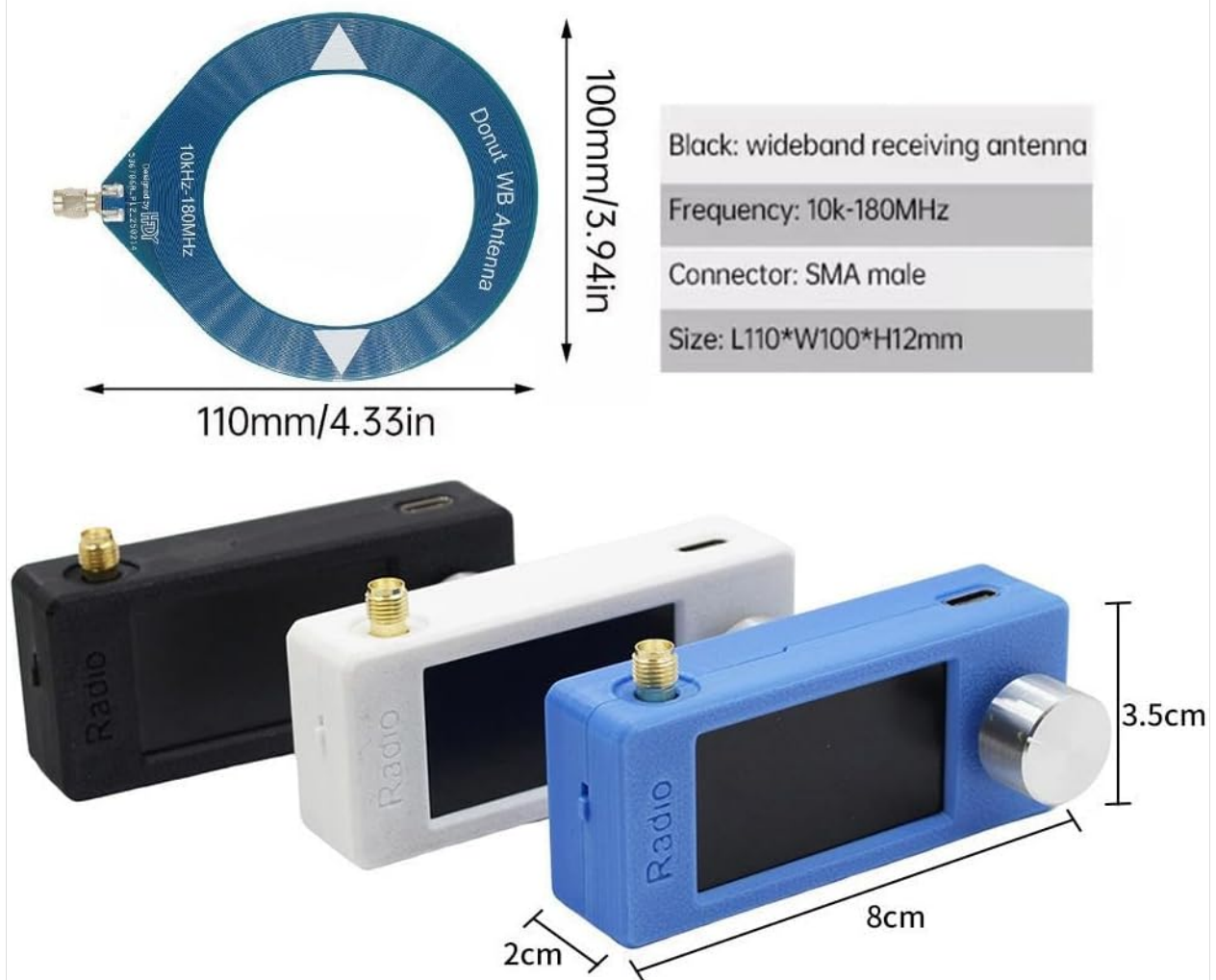


Image 7.1.1: Product dimensions and specifications for the radio and wideband receiving antenna.

## 8. WARRANTY AND SUPPORT

Warranty and support information for this Generic SI4732 Mini Radio Receiver is not provided in the product data. Please refer to the retailer or point of purchase for details regarding warranty coverage and customer support options.

### Related Documents - SI4732 Mini Radio Receiver



<div data-bbox="175 100 250 114" data-label="Page-Header"> <p>www.QuietRadio.co.uk</p> </div> <div data-bbox="183 176 244 241" data-label="Image"> </div> <div data-bbox="118 250 132 320" data-label="Page-Header"> <p>USER GUIDE</p> </div> <div data-bbox="148 342 253 353" data-label="Page-Header"> <p>Aziloop is designed and manufactured in the UK by</p> </div>	<div data-bbox="341 197 1037 230" data-label="Section-Header"> <h3><a href="#">Aziloop DF-72 User Guide: Advanced HF Antenna Processor</a></h3> </div> <div data-bbox="341 237 1444 349" data-label="Text"> <p>Comprehensive user guide for the Aziloop DF-72 Antenna Processor by QuietRadio. Covers installation, setup, operation modes, settings, preferences, and troubleshooting for this advanced HF receive antenna system.</p> </div>
<div data-bbox="148 506 280 533" data-label="Section-Header"> <h4>Shortwave Loop Antenna Kit</h4> </div> <div data-bbox="156 546 271 689" data-label="Image"> </div> <div data-bbox="142 696 280 714" data-label="Page-Footer"> <p>MTM Scientific, Inc. P.O. Box 102, Chino, MO 65015 U.S.A. www.mtmscientific.com</p> </div>	<div data-bbox="341 542 1037 575" data-label="Section-Header"> <h3><a href="#">MTM Scientific Shortwave Loop Antenna Kit Assembly Guide</a></h3> </div> <div data-bbox="341 582 1469 694" data-label="Text"> <p>Detailed instructions and diagrams for assembling the MTM Scientific Shortwave Loop Antenna Kit, designed for indoor shortwave radio reception. Covers component descriptions, assembly steps, and tuning.</p> </div>
<div data-bbox="142 781 172 792" data-label="Section-Header"> <h4>DESCRIPTION</h4> </div> <div data-bbox="148 799 280 824" data-label="Section-Header"> <h5>KC4 SHORTWAVE 4-BAND VERTICAL ANTENNA</h5> </div> <div data-bbox="159 828 266 945" data-label="Image"> </div> <div data-bbox="137 954 288 1039" data-label="Text"> <p><b>1.1. DESCRIPTION &amp; SPECIFICATION</b> The KC4 is a 4-band vertical antenna made of aluminum alloy. It covers 40m, 20m, 15m, and 10m bands. The antenna is designed for indoor or outdoor use. It has a built-in SWR meter and a 100W power handling capacity. The antenna is easy to install and use. It is a great choice for anyone who wants to improve their shortwave reception.</p> </div>	<div data-bbox="341 844 1313 878" data-label="Section-Header"> <h3><a href="#">CHELEGANCE KC4 4-Band Shortwave Vertical Antenna: Installation &amp; Tuning Guide</a></h3> </div> <div data-bbox="341 884 1423 996" data-label="Text"> <p>Detailed installation and commissioning guide for the CHELEGANCE KC4 4-band shortwave vertical antenna, covering 40m, 20m, 15m, and 10m bands. Learn specifications, part lists, and setup procedures for optimal performance.</p> </div>
<div data-bbox="142 1095 172 1106" data-label="Section-Header"> <h4>DESCRIPTION</h4> </div> <div data-bbox="148 1113 280 1137" data-label="Section-Header"> <h5>M-104 ANTENNA KIT USER MANUAL</h5> </div> <div data-bbox="156 1142 271 1205" data-label="Image"> </div> <div data-bbox="137 1205 288 1279" data-label="Text"> <p><b>1.1. DESCRIPTION &amp; SPECIFICATION</b> The M-104 is a portable 4-band shortwave antenna kit. It covers 40m, 20m, 15m, and 10m bands. The kit includes all the components needed for assembly and operation. It is easy to carry and use. It is a great choice for anyone who wants to improve their shortwave reception while on the go.</p> </div> <div data-bbox="137 1283 288 1352" data-label="Text"> <p><b>1.2. PART LIST</b> 1. Antenna Kit Box 2. Antenna Wire 3. SWR Meter 4. Coaxial Cable 5. Mounting Hardware 6. User Manual</p> </div>	<div data-bbox="341 1158 1212 1191" data-label="Section-Header"> <h3><a href="#">CHELEGANCE M-104 Portable 4-Band Shortwave Antenna Kit User Manual</a></h3> </div> <div data-bbox="341 1198 1469 1310" data-label="Text"> <p>Comprehensive user manual for the CHELEGANCE M-104 portable 4-band shortwave antenna kit, covering specifications, part list, installation guide, and accessory recommendations for SOTA, POTA, and mobile operations.</p> </div>
<div data-bbox="124 1424 296 1536" data-label="Image"> </div>	<div data-bbox="341 1408 1075 1442" data-label="Section-Header"> <h3><a href="#">GOOZEEZOO ATS-20+ Portable Shortwave Radio User Manual</a></h3> </div> <div data-bbox="341 1449 1449 1561" data-label="Text"> <p>User manual for the GOOZEEZOO ATS-20+ portable shortwave radio receiver, detailing features for FM, AM (MW, SW), LW, and SSB (LSB, USB) reception, operation, specifications, and charging.</p> </div>
<div data-bbox="137 1619 280 1809" data-label="Image"> </div> <div data-bbox="159 1778 266 1809" data-label="Page-Footer"> <p>Published by MTM Scientific, Inc. P.O. Box 102, Chino, MO 65015 U.S.A. http://www.mtmscientific.com</p> </div>	<div data-bbox="341 1664 1197 1697" data-label="Section-Header"> <h3><a href="#">MTM Scientific AMDX1000 AM Radio Loop Antenna Plans and Instructions</a></h3> </div> <div data-bbox="341 1704 1377 1816" data-label="Text"> <p>Comprehensive guide to building and using the MTM Scientific AMDX1000 AM Radio Loop Antenna. Includes construction details, parts list, assembly instructions, and usage tips for enhanced AM radio reception.</p> </div>