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› ATS-20+ Si4732 Full Band Radio Receiver User Manual

## Diyeeni ATS-20+

# ATS-20+ Si4732 Full Band Radio Receiver User Manual

Model: ATS-20+

## INTRODUCTION

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The Diyeeni ATS-20+ Si4732 Full Band Radio Receiver is a versatile digital receiver designed for global reception. It supports FM stereo, AM (MW and SW), and SSB (LSB and USB) bands, offering a wide range of radio frequencies for various listening needs. Its compact and robust design makes it suitable for both indoor and outdoor use.

## PACKAGE CONTENTS

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Upon opening the package, please verify that all the following items are included:

- 1 x ATS-20+ Radio Receiver
- 1 x Antenna
- 1 x Type-C Charging Cable
- 1 x Set of Foot Mats (4 pieces)



Image: The ATS-20+ radio receiver shown with its included antenna, Type-C charging cable, and foot mats.

## PRODUCT OVERVIEW

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Image: Front view of the ATS-20+ radio receiver, showing the display, tuning knob, and main controls.



Image: Back view of the ATS-20+ radio receiver, highlighting the antenna connection point and the Type-C charging port.

# High sensitivity Wide receiving range Multi band radio receiver FM AM MW SW SSB LSB USB



Image: A close-up view of the ATS-20+ radio receiver's 0.96-inch screen and control buttons, demonstrating its compact size when held.

The ATS-20+ features a compact design with a 0.96-inch screen for clear display of frequency and settings. It includes a Type-C charging interface and an integrated 800mAh Lithium Ion Battery. The main controls consist of a tuning/BFO/ATS knob and buttons for band selection, volume, bandwidth, and mode.

## SETUP

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### 1. Charging the Battery

Before first use, fully charge the radio receiver. Connect the supplied Type-C charging cable to the radio's Type-C port and the other end to a standard USB power adapter (not included) or a computer USB port.

- The charging indicator light will illuminate during charging.
- Charging typically takes approximately 2-3 hours for a full charge.

### 2. Attaching the Antenna

Screw the provided telescopic antenna into the antenna connector on the side of the radio. Ensure it is securely fastened for optimal reception.



Image: Side view of the ATS-20+ radio receiver, showing the telescopic antenna attached to its connector.

### 3. Applying Foot Mats

For stability and to prevent scratching surfaces, peel and stick the four included foot mats to the bottom corners of the radio receiver.

## OPERATING INSTRUCTIONS

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### 1. Power On/Off

Press and hold the **OFF/ON** button to power the radio on or off.

### 2. Band Selection

Press the **BAND+** or **BAND-** buttons to cycle through the available frequency bands: FM, AM (MW, SW), and SSB (LSB, USB).

### 3. Tuning

Rotate the large **TUNE/BFO/ATS** knob to adjust the frequency. A short press on this knob may switch between fine tuning and coarse tuning modes, or activate ATS (Automatic Tuning System) depending on the current mode.

### 4. Volume Adjustment

Use the **VOL+** and **VOL-** buttons to increase or decrease the audio volume.

### 5. Bandwidth (BW) Selection

Press the **BW** button to cycle through different audio bandwidth filters (e.g., 0.5, 1, 1.2, 2.2, 3, and 4 KHz). Selecting the appropriate bandwidth can improve signal clarity and reduce interference.

### 6. Mode Selection (SSB)

When in SSB mode, use the **MODE** button to switch between LSB (Lower Sideband) and USB (Upper Sideband).

### 7. Step Adjustment

The **STEP** button allows you to change the tuning step size, which can be useful for precise tuning or quickly scanning frequencies.



Image: A detailed view of the ATS-20+ radio's screen and the various control buttons for band, volume, bandwidth, and mode selection.

## MAINTENANCE

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- **Cleaning:** Use a soft, dry cloth to clean the exterior of the radio. Do not use liquid cleaners or abrasive materials.
- **Storage:** When not in use for extended periods, store the radio in a cool, dry place away from direct sunlight and extreme temperatures.
- **Battery Care:** To prolong battery life, avoid fully discharging the battery frequently. Recharge the battery regularly, even if the radio is not in active use.
- **Antenna Care:** Handle the telescopic antenna carefully to prevent bending or breaking. Retract the antenna when not in use or during transport.

**Made of aluminum alloy**  
**Rugged and durable**  
**Long service life**  
**PCB retains for si4735 package**  
**Users can replace chips by themselves.**  
**Software compatibility**



Image: The ATS-20+ radio receiver, highlighting its durable aluminum alloy construction, designed for ruggedness and long service life.

## TROUBLESHOOTING

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Problem	Possible Cause	Solution
No power	Battery is depleted.	Charge the radio using the Type-C cable.
Poor reception / Static	Antenna not extended or connected properly; Weak signal; Interference.	Fully extend the antenna and ensure it's securely connected. Try repositioning the radio. Adjust the bandwidth (BW) filter.
Cannot tune to desired station	Incorrect band selected; Tuning step too large.	Verify you are on the correct frequency band (FM, AM, SW, SSB). Adjust the tuning step using the STEP button for finer control.
Distorted audio in SSB mode	Incorrect sideband (LSB/USB) selected; BFO not properly adjusted.	Switch between LSB and USB using the MODE button. Fine-tune the BFO (Beat Frequency Oscillator) using the TUNE/BFO/ATS knob for clear audio.

## SPECIFICATIONS

Feature	Detail
Model	ATS-20+
Screen	0.96 inch
Charging Interface	Type-C
Speaker	8ohm 1.5W
Battery Type	800mAh Lithium Ion Battery (Built-In)
Supported Frequency Bands	FM, AM (MW and SW), SSB (LSB and USB)
Sound Bandwidth Filters	0.5, 1, 1.2, 2.2, 3, 4 KHz
Pre-configured Bands	22 commercial and amateur radio bands
Dimensions (Package)	5.94 x 4.06 x 2.24 inches
Weight (Package)	11.11 ounces
Material	Metal, PCB

## WARRANTY INFORMATION

This product is covered by a standard manufacturer's warranty. Please refer to the seller's policy on the purchase platform for specific warranty terms and duration. Retain your proof of purchase for any warranty claims.

Protection plans are available for purchase separately:

- 2-Year Protection Plan
- 3-Year Protection Plan
- Complete Protect (monthly plan)

## CUSTOMER SUPPORT

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For technical assistance, troubleshooting not covered in this manual, or warranty inquiries, please contact the seller directly through the platform where the product was purchased. You may also visit the official Diyeeni store page for additional resources.

**Diyeeni Store:** <https://www.amazon.com/stores/Diyeeni/page/FA40A778-A611-4117-B74A-56A2D97A5D82>

