ZYWUOY ATS25 Max Decoder II

ZYWUOY ATS25 Max Decoder II Full-band Radio User Manual

Model: ATS25 Max Decoder II

1. Introduction

The ZYWUOY ATS25 Max Decoder II is an advanced 2024 UPGRADED Second Generation full-band radio receiver designed for enthusiasts and professionals. It features a 2.4-inch touch screen, built-in Moss code and digital communication decoders, and supports a wide range of frequencies and modes including FM, LW, MW, SW, and SSB. With its integrated Bluetooth and Wi-Fi capabilities, a 4000 mAh battery, and a robust aluminum alloy shell, this device offers versatile and reliable performance for radio reception and signal decoding.

2. Package Contents

Please verify that all items listed below are included in your package:

- 1x ATS25 Max Decoder II Host Unit
- 1x Wiping Cloth
- 1x WiFi Antenna
- 1x Rod Antenna
- 1x 2-in-1 Touch Pen
- 1x TYPE-C Charging Data Cable
- 1x Machine Foot Mat Version (set)
- 1x User Manual (this document)

3. Product Overview

Familiarize yourself with the main components and interfaces of your ATS25 Max Decoder II radio.

3.1 Front and Top View

Figure 3.1: Front view of the ATS25 Max Decoder II, showing the touch screen display, tuning knob, and antenna ports.

The front panel features a 2.4-inch touch screen display for intuitive navigation and information display. To the right, a large rotary tuning knob allows for precise frequency adjustment and menu selection. The top of the unit includes connectors for the main rod antenna and a smaller Wi-Fi antenna.

3.2 Rear Panel Interfaces

Figure 3.2: Rear panel of the ATS25 Max Decoder II, detailing the various ports and controls.

The rear panel provides essential connectivity:

- **WiFi:** Connector for the Wi-Fi antenna.
- **USB charge/download:** TYPE-C port for charging the internal battery and data transfer.
- **POWER OFF/ON:** Slide switch to power the device on or off.
- **led charge:** Indicator light for charging status.
- **phone head:** 3.5mm audio jack for headphones.
- **ANT:** BNC interface for connecting the main rod antenna or other external antennas.

4. Setup

4.1 Charging the Battery

Before first use, fully charge the internal 3.7V/4000mAh lithium battery. Connect the supplied TYPE-C charging data cable to the USB charge/download port on the rear panel and plug the other end into a compatible USB power adapter (not included). The 'led charge' indicator will illuminate during charging and turn off when charging is complete.

4.2 Connecting Antennas

For optimal reception, connect the appropriate antennas:

- **Rod Antenna:** Screw the rod antenna into the BNC 'ANT' interface on the rear panel. Extend the antenna fully for best reception, especially for SW and SSB bands.
- **WiFi Antenna:** Screw the smaller Wi-Fi antenna into the 'WiFi' connector on the rear panel for Wi-Fi functionality.

4.3 Powering On/Off

To power on the device, slide the 'POWER OFF/ON' switch on the rear panel to the 'ON' position. To power off, slide the switch to the 'OFF' position.

4.4 Initial Configuration

Upon first power-on or after a reset, you may need to adjust basic settings using the touch screen and tuning knob. These include:

- **Brightness Adjustment:** Navigate through the settings menu to adjust the backlight brightness for comfortable viewing.
- **Silent Mode:** Configure silent mode frequency and time display interchange if desired.

5. Operation

5.1 Tuning and Frequency Selection

The ATS25 Max Decoder II offers multiple ways to select frequencies:

- **Tuning Knob:** Rotate the large 'TUNE' knob on the right side to incrementally adjust the frequency.
- **Digital Keyboard Input:** Use the on-screen digital keyboard to directly input desired frequencies.
- **Broadcast Search:** Utilize the broadcast search function to scan for active stations within a band.
- **HAM Band Fast Channel:** Quickly jump to predefined amateur radio (HAM) bands.

5.2 Operating Modes and Bandwidths

The radio supports a comprehensive set of operating modes:

- **LSB (Lower Sideband)**
- **AM (Amplitude Modulation):** Supports bandwidths from 1-6kHz.
- **USB (Upper Sideband)**
- **CW (Continuous Wave)**
- **DIGI (Digital Modes):** Includes PSK, FT4, FT8, RTTY L, RTTY U, HELL. This mode is unique to Decoder products.
- **CWR (CW Reverse)**
- **SYNC L (Synchronous Detection Lower Sideband)**
- **SYNC U (Synchronous Detection Upper Sideband)**

SSB bandwidth is adjustable from 0.5-4.0kHz.

5.3 Decoding Functions

The ATS25 Max Decoder II includes advanced decoding capabilities:

- **Moss Code Decoder:** Decodes Morse code signals.
- **Digital Communication Decoder:** Decodes various digital communication protocols.
- **CW Decoding:** Specifically decodes Continuous Wave signals.
- **PSK Mode:** Supports PSK decoding within the DIGI mode.

5.4 Bluetooth and Wi-Fi Functionality

Figure 5.4: Setup menu displaying Bluetooth and Wireless options.

The device supports Bluetooth and Wi-Fi connectivity:

- **Bluetooth:** Enable Bluetooth from the setup menu (as shown in Figure 5.4) to connect to compatible Bluetooth audio devices for external sound output.
- **Wi-Fi:** Enable Wi-Fi from the setup menu to connect to wireless networks. This may be used for future software updates or network-dependent features.

5.5 Additional Features

- **Radio Frequency Spectrum Scanning:** Utilize the spectrum scanning function to visually identify active signals across a frequency range.
- **Display Information:** The screen displays essential information such as battery percentage, battery voltage, and can interchange between frequency and time display in silent mode.
- **HI-Z Antenna Input Impedance:** Provides high impedance input for antennas.

- **LNA Function:** Low Noise Amplifier function for improved signal reception.
- **Built-in Band-pass Filter:** Integrated band-pass filter circuit helps in shielding interference.
- **50ohm Mode Support:** Supports 50 ohm impedance mode.
- **Built-in External Full Frequency Speaker:** Provides stereo audio output.

6. Maintenance

Proper care and maintenance will ensure the longevity and optimal performance of your ATS25 Max Decoder II.

- **Cleaning:** Use the provided wiping cloth or a soft, dry cloth to clean the device's exterior and screen. Avoid using abrasive cleaners or solvents.
- **Handling:** The device features an aluminum alloy shell, but it is not water resistant. Avoid exposure to water, excessive moisture, or extreme temperatures. Handle with care to prevent drops, as indicated by the warning on the packaging.
- **Battery Care:** To preserve battery life, avoid fully discharging the battery frequently. Charge the device regularly, especially if it will be stored for an extended period.
- **Storage:** Store the radio in a cool, dry place away from direct sunlight and dust when not in use.

7. Troubleshooting

If you encounter issues with your ATS25 Max Decoder II, refer to the following common problems and solutions:

- **Device does not power on:**
  - Ensure the battery is charged. Connect the TYPE-C charging cable and check if the 'led charge' indicator illuminates.
  - Verify the 'POWER OFF/ON' switch is in the 'ON' position.
- **Radio does not charge or charging LED goes out quickly:**
  - Ensure the TYPE-C cable is securely connected to both the device and the power source.
  - Try a different TYPE-C cable and/or a different USB power adapter.
  - If the issue persists, the internal battery or charging circuit may require service. Contact customer support.
- **Poor reception or no signal:**
  - Ensure the rod antenna is securely connected to the 'ANT' BNC interface and fully extended.
  - Try repositioning the radio or moving to an area with less interference.
  - Check the selected frequency and operating mode for accuracy.
  - Verify the LNA function is enabled if needed for weak signals.
- **Bluetooth pairing issues:**
  - Ensure Bluetooth is enabled on the radio via the setup menu (refer to Figure 5.4).
  - Make sure the Bluetooth device you are trying to pair is in pairing mode and within range.
  - Try restarting both the radio and the Bluetooth device.

8. Specifications

Feature	Description
Model Number	0V0A011VDTYIK8FIWSI82E8I
Frequency Range	FM: 64-108MHz (with RDS) LW: 153-500KHz MW: 520-1710kHz SW: 1730-30000KHz SSB: 17030kHz
Supported Modes	LSB, AM, USB, CW, DIGI (PSK/FT4/FT8/RTTY L/RTTY U/HELL), CWR, SYNC L, SYNC U
AM Bandwidth	1-6kHz
SSB Bandwidth	0.5-4.0kHz
Display	2.4-inch Touch Screen
Battery	Built-in 3.7V/4000mAh Lithium Battery
Charging Port	TYPE-C
Shell Material	Aluminum Alloy
Color	Black
Product Dimensions	11.1 x 10.5 x 4.7 cm (Shell size) 10 x 6 x 6 cm (Product dimensions)
Item Weight	525 g
Special Features	Bluetooth-compatible, Built-in Moss code & digital communication decoder, HI-Z antenna input, LNA function, Built-in band-pass filter, PSK mode, 50ohm mode, Spectrum scanning, Brightness adjustment, Battery percentage/voltage display.
Water Resistance Level	Not Water Resistant

9. Warranty and Support

Your ATS25 Max Decoder II comes with a 12-bit license key, ensuring the version is registered and the software supports subsequent upgrades. For technical support, warranty claims, or any inquiries regarding your product, please contact the manufacturer directly.

Manufacturer Information:

Manufacturer: wuhanshitouweisidianzishangwuyouxiangongsi
Address: East of Siming Road, Changqing Street, South of Dongxihu Avenue, Room 1-31, 17th Floor,

Building 1/Unit, Jiabai Modern City, Dongxihu District, Wuhan City, Hubei Province, 430040, CN
Phone: +8619926823420
Manufacturer E-mail: elizabethmollyavoc@163.com
For EU customers, the authorized representative is:
EU REP: SUCCESS COURIER SL
Address: CALLE RIO TORMES NUM. 1, PLANTA 1, DERECHA, OFICINA 3, Fuenlabrada, Madrid, 28947 Spain
Email: successservice2@hotmail.com
Please retain your purchase receipt as proof of purchase for warranty purposes.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question