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› SDRGEEK ATS-25 max-DECODER Radio Receiver User Manual

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Model: ATS-25 max-DECODER

1. INTRODUCTION

The SDRGEEK ATS-25 max-DECODER is a versatile full-band radio receiver designed for enthusiasts. It features a 2.4-inch touchscreen, multiple reception modes including FM, AM, LW, MW, SW, and SSB, and a built-in 3000mAh lithium battery. This manual provides essential information for setting up, operating, and maintaining your device.

Full-Band Radio Receiver

FM: 64 functions 108MHz/rds functions

LW: 153khz 500khz

MW: 520khz 1710khz

SW: 1730khz 30000khz

SSB: 1730khz 30000khz

Antenna Interface: BNC



Image 1.1: Front view of the ATS-25 max-DECODER radio receiver, showing the display and controls.

2. SETUP

2.1 Unpacking

Carefully remove all components from the packaging. Ensure the following items are present:

- ATS-25 max-DECODER Radio Receiver
- Type-C USB Charging Cable
- Telescopic Antenna
- User Manual (this document)

2.2 Charging the Battery

The device is equipped with a built-in 3.7V / 3000mAh lithium battery. Before initial use, fully charge the receiver.

1. Connect the Type-C USB charging cable to the receiver's Type-C port.
2. Connect the other end of the cable to a compatible USB power adapter (not included).

3. The charging indicator on the device will show the charging status. A full charge typically takes several hours. The maximum charging current is 1.5A.



Image 2.1: The ATS-25 max-DECODER connected to a power source via its Type-C port for charging.

2.3 Antenna Connection

For optimal reception, connect an appropriate antenna.

- **BNC Antenna Interface:** Use this interface for connecting external shortwave (SW) antennas.
- **3.5mm Audio Jack FM Antenna:** The 3.5mm audio jack also supports an FM antenna for improved FM reception.

2.4 Powering On/Off

Locate the power button on the device. Press and hold the power button for a few seconds to turn the receiver on or off.

3. OPERATING INSTRUCTIONS

3.1 User Interface

The ATS-25 max-DECODER features a 2.4-inch touchscreen for navigation and control. You can also use the numeric keypad to directly input frequencies.

3.2 Frequency Ranges and Modes

The receiver supports a wide range of frequencies and modulation modes:

Band	Frequency Range	Notes
FM	64-108 MHz	Includes RDS function
LW	153-500 kHz	Longwave
MW	520-1710 kHz	Mediumwave
SW	1730-30000 kHz	Shortwave
SSB	1730-30000 kHz	Single Sideband (LSB, USB)

The device supports various CW modes, including DIGI, CWR, SYNC L, and SYNC U, in addition to standard LSB, USB, AM, and CW modes.

8 CW Modes

ATS-25 max-Decoder adds 4 new CW modes

- | | |
|----------|-------|
| ✓ DIGI | ✓ LSB |
| ✓ CWR | ✓ USB |
| ✓ SYNC L | ✓ AM |
| ✓ SYNC U | ✓ CW |



VS

ATS-25 X2
Only 4 modes



Image 3.1: The ATS-25 max-DECODER display illustrating the selection of 8 CW modes.

3.3 Tuning and Scanning

- **Direct Frequency Input:** Use the numeric keypad on the touchscreen to enter a desired frequency directly.
- **Broadcast Search:** The receiver supports a broadcast search function to find active stations within a selected band.
- **Bandwidth Adjustment:** Adjust the AM bandwidth from 1-6K and SSB bandwidth from 0.5-4.0K for optimal audio clarity.

3.4 Display Features

The ATS-25 max-DECODER offers various display options to enhance your listening experience, including spectrum, waterfall, and a retro signal strength meter.

CW Network Signal in 4 Formats

Use the stylus to click on the CW network to change the format



Image 3.2: The receiver's display showing different formats for CW network signals, including spectrum analysis.

3.5 WiFi Functionality

The version 4.15 ATS-25 max-DECODER includes a built-in WiFi function that allows direct internet connection without requiring an external application. The WiFi icon will appear on the screen when connected.

New Version with Upgraded Functions



Decoder Function

(Decoder Has Been Completed)



New upgraded 4.17 Version



8 CW Modes



WiFi Function

Image 3.3: The display showing the WiFi settings menu, allowing connection to a network.

4. MAINTENANCE

4.1 Cleaning

To clean the receiver, use a soft, dry cloth. Do not use liquid cleaners, aerosols, or solvents, as these may damage the device's finish or internal components.

4.2 Storage

When not in use for extended periods, store the receiver in a cool, dry place away from direct sunlight and extreme temperatures. Ensure the battery is partially charged (around 50%) before long-term storage to preserve battery health.

5. TROUBLESHOOTING

If you encounter issues with your ATS-25 max-DECODER, refer to the following common problems and solutions:

- **No Power:**

- Ensure the battery is charged. Connect the receiver to a power source using the Type-C cable.
- Verify the power button is pressed and held sufficiently to power on the device.

- **Poor Reception / Cannot Tune Stations:**

- Ensure an appropriate antenna is securely connected to the BNC or 3.5mm FM antenna port. The supplied telescopic antenna may not be sufficient for all bands, especially shortwave.
- Check your location for potential interference from electronic devices or structures.
- Adjust the bandwidth settings for the current mode (AM or SSB) to improve signal clarity.

- **WiFi Connection Issues:**

- Navigate to the WiFi settings menu on the touchscreen.
- Ensure WiFi is enabled and select the correct network.
- Verify the password for your WiFi network is entered correctly.
- Ensure the receiver is within range of your WiFi router.

- **Touchscreen Unresponsive:**

- Restart the device by powering it off and then on again.
- Ensure the screen is clean and free of debris.

6. SPECIFICATIONS

Feature	Specification
Model Number	ATS-25 max-DECODER
Brand	SDRGEEK
Shell Material	Aluminum Alloy
Battery	Built-in 3.7V / 3000mAh Lithium Battery
Charging Interface	Type-C (Max 1.5A charging current)
Antenna Interfaces	BNC, 3.5mm Audio Jack (for FM antenna)
Display	2.4-inch Touchscreen
Audio Output Power	1.5 Watts
Audio Output Mode	Stereo (3.5mm)
Frequency Ranges	FM: 64-108 MHz (with RDS) LW: 153-500 kHz MW: 520-1710 kHz SW: 1730-30000 kHz SSB: 1730-30000 kHz
AM Bandwidth	1-6K
SSB Bandwidth	0.5-4.0K

Feature	Specification
Special Functions	WiFi Function, Radio Search Function, RTTY Decoding, Audio Spectrum
Dimensions (L x W x H)	120 x 115 x 48 mm (excluding protruding parts)

7. WARRANTY AND SUPPORT

7.1 Warranty Information

This product comes with a standard manufacturer's warranty. Please refer to the product packaging or retailer's website for specific warranty terms and conditions. Keep your proof of purchase for warranty claims.

7.2 Customer Support

For technical assistance, troubleshooting not covered in this manual, or other inquiries, please contact SDRGEEK customer support through the retailer's platform or the official SDRGEEK website. Provide your product model and purchase details when contacting support.