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SDRGEEK ATS25-AMP

SDRGEEK Si4732 ATS-25 AMP All Band Radio Receiver V4.17 User Manual

Model: ATS25-AMP

1. Introduction

This manual provides comprehensive instructions for the SDRGEEK Si4732 ATS-25 AMP All Band Radio Receiver V4.17. Please read this manual thoroughly before operating the device to ensure proper use and to maximize its performance and longevity. Keep this manual for future reference.

2. Safety Information

- Do not expose the device to extreme temperatures, humidity, or direct sunlight.
- Avoid dropping or subjecting the device to strong impacts.
- Do not attempt to disassemble or modify the device. This may void the warranty and cause damage.
- Use only the specified charging cable and power adapter.
- Keep the device away from water and other liquids.
- **Firmware Update Warning:** Based on user feedback, exercise caution when prompted for firmware updates. Unofficial or incorrect updates may render the device inoperable. Consult official SDRGEEK support channels for verified update procedures.

3. Product Overview

The SDRGEEK ATS-25 AMP is a portable all-band radio receiver designed for versatile listening across various frequency ranges and modulation modes. It features a touch screen interface, built-in speaker, and a rechargeable battery.

Package Contents

- ATS-25 AMP Radio Receiver
- Portable Carrying Bag
- Telescopic Antenna
- BNC Antenna Adapter
- SMA Wi-Fi Antenna

- TYPE-C USB Charging Cable
- Touch Screen Stylus (if included)
- Owner's Manual (this document)

Device Layout

Figure 3.1: SDRGEEK ATS-25 AMP Radio Receiver and its accessories, including the main unit, carrying bag, antennas, and charging cable.

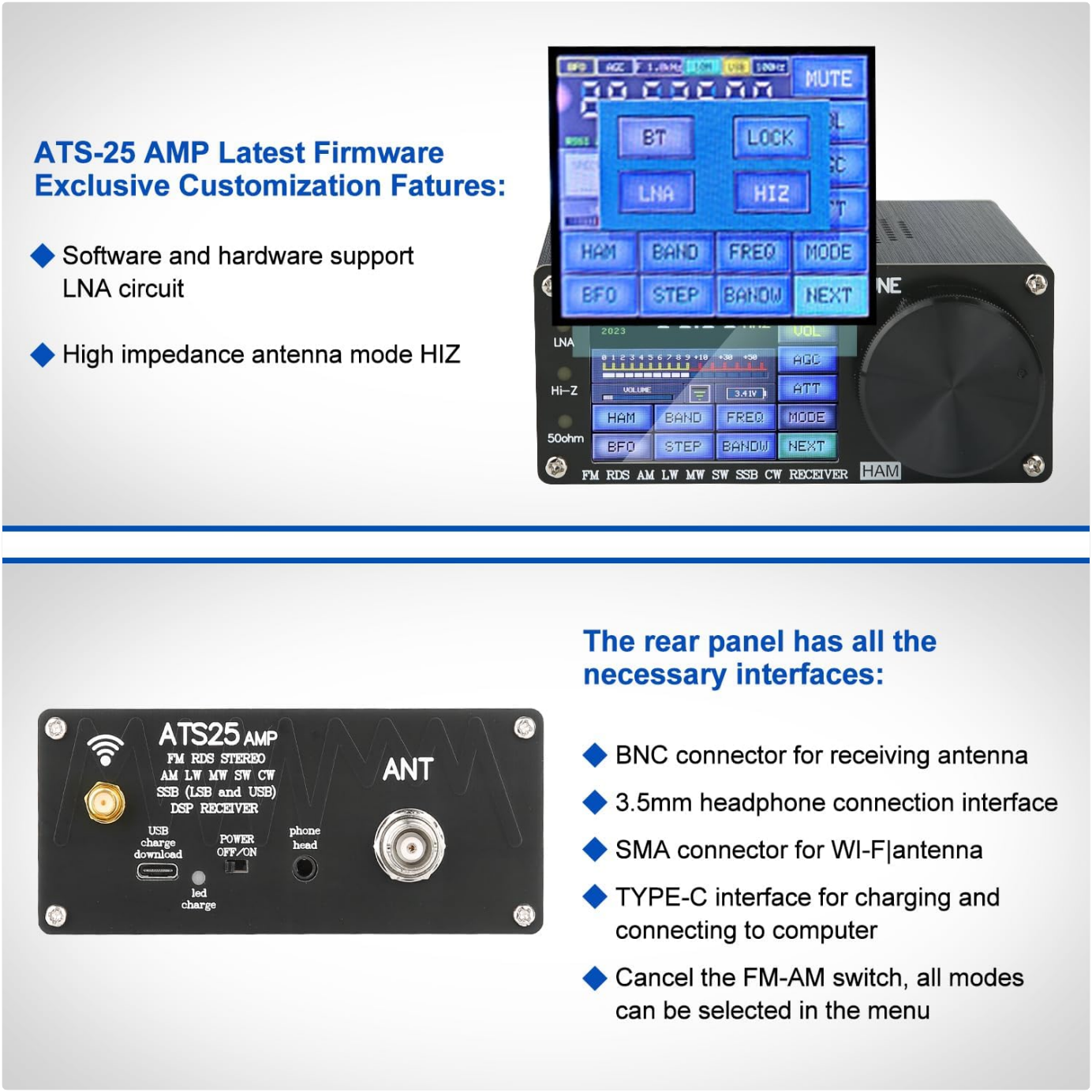

Figure 3.2: Rear panel connections of the ATS-25 AMP, featuring BNC antenna connector, 3.5mm headphone jack, SMA Wi-Fi antenna port, and TYPE-C USB for charging and data.

The front panel features a touch screen display for navigation and control, along with a large tuning knob. The rear panel includes various ports for connectivity:

- **BNC Connector:** For receiving antenna.
- **3.5mm Headphone Jack:** For audio output.
- **SMA Connector:** For Wi-Fi antenna (if applicable).
- **TYPE-C Interface:** For charging and connecting to a computer for program upgrades.

4. Setup

4.1 Initial Charging

1. Connect the supplied TYPE-C USB cable to the radio's TYPE-C port.

2. Connect the other end of the USB cable to a compatible USB power adapter (not included) or a computer's USB port.
3. The charging indicator light will illuminate. A full charge typically takes approximately 3-4 hours.
4. The radio features a built-in 3.7V/3000mAh lithium battery.

4.2 Antenna Connection

1. For general reception, connect the telescopic antenna to the BNC connector on the rear panel using the provided BNC adapter.
2. Extend the telescopic antenna fully for optimal reception, especially for shortwave bands.
3. For FM reception, a headphone cable can also function as an antenna when plugged into the 3.5mm jack. The radio automatically switches antenna input.
4. Ensure all connections are secure.

5. Operating Instructions

5.1 Power On/Off

Press and hold the power button (usually located on the side or rear panel) for a few seconds to turn the radio on or off. The touch screen will illuminate upon power-on.

5.2 Band Selection

The radio supports a wide frequency range:

- **132KHz - 30000KHz:** Suitable for AM, SYNC, SSB, DIGI, CW.
- **64MHz - 108MHz:** Suitable for FM and RDS.

Use the touch screen interface to select the desired band (e.g., FM, AM, SSB) or modulation mode (DIGI, SYNC, CW). Dedicated buttons like "BAND" or "MODE" on the screen will navigate through options.

Figure 5.1: The radio's display showing its wide frequency range support for various modes.

5.3 Frequency Tuning

Use the large tuning knob on the right side of the radio to adjust the frequency. The touch screen may also offer direct frequency input or step adjustment options ("STEP").

- For SSB, the minimum frequency adjustment step size is 10Hz.
- The BFO generator can be used for precise fine-tuning of amateur radio frequencies, with accuracy up to 1Hz.

5.4 LNA Function (Low Noise Amplifier)

The LNA function enhances weak signals. To activate or deactivate:

1. Locate the "LNA" button on the touch screen.
2. Tap to toggle the LNA function on or off. An indicator light on the screen will confirm its status.

5.5 HI-Z Mode (High Impedance)

The HI-Z mode is useful for certain antenna configurations. To activate or deactivate:

1. Locate the "HI-Z" button on the touch screen.
2. Tap to toggle the HI-Z mode on or off. An indicator light on the screen will confirm its status.

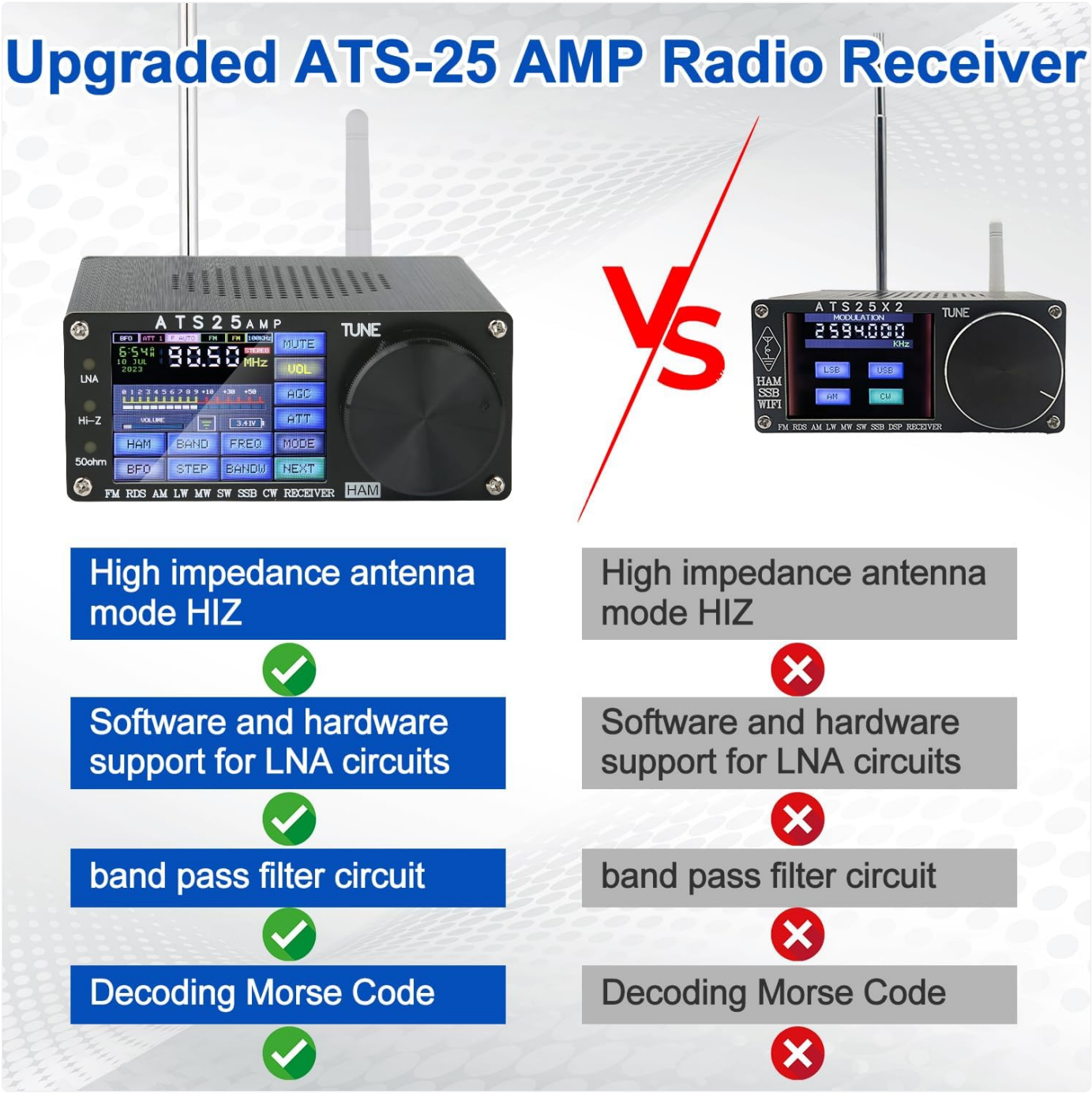

Figure 5.2: Feature comparison highlighting the ATS-25 AMP's support for High Impedance (HI-Z) antenna mode and LNA circuits.

5.6 Volume Control

Adjust the audio volume using the dedicated volume control on the touch screen or a physical knob if available. The radio features a 3-inch external magnet full-range stereo speaker.

5.7 Display Settings

The screen brightness can be adjusted or turned off completely to conserve battery life and reduce distractions. Access these settings through the on-screen menu.

5.8 RDS Functionality

When tuned to an FM station broadcasting RDS (Radio Data System) information, the radio can display details such as station name, current program, radio station type, and local time.

5.9 Firmware Upgrades

The radio supports firmware upgrades via the TYPE-C USB port. It is equipped with the latest genuine firmware (V4.17) and supports future updates. Always refer to official SDRGEEK channels for verified firmware and instructions to avoid potential issues.

6. Maintenance

6.1 Cleaning

- Wipe the radio's exterior with a soft, dry cloth.
- Do not use abrasive cleaners, solvents, or strong chemicals.
- For the touch screen, use a microfiber cloth specifically designed for electronics.

6.2 Battery Care

- Charge the battery regularly, even if the radio is not used frequently, to maintain battery health.
- Avoid fully discharging the battery for extended periods.
- Store the radio in a cool, dry place when not in use.

7. Troubleshooting

7.1 No Power

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

7.2 Poor Reception

- Check antenna connection. Ensure the telescopic antenna is fully extended.
- Try repositioning the radio or antenna to find a better signal.
- Activate the LNA function for weak signals.
- Ensure you are in the correct band and modulation mode for the desired broadcast.
- Interference from other electronic devices can affect reception. Move away from such sources.

7.3 No Audio

- Check the volume level.
- If headphones are connected, ensure they are fully plugged in and functioning correctly.

7.4 Device Unresponsive After Firmware Update

- This can occur with unofficial or interrupted firmware updates.
- Refer to the official SDRGEEK support website for recovery procedures or contact customer support.

8. Specifications

Feature	Description
Model	ATS25-AMP

Frequency Range (AM/SSB/DIGI/SYNC/CW)	132KHz - 30000KHz
Frequency Range (FM/RDS)	64MHz - 108MHz
Modulation Modes	AM, FM, SSB, DIGI, SYNC, CW, RDS
Bandwidth Range (CW)	500Hz to 6000Hz (adjustable)
SSB Frequency Step	Minimum 10Hz
BFO Generator Accuracy	Up to 1Hz
Speaker	Built-in 3-inch external magnet full-range stereo speaker
Battery	Built-in 3.7V/3000mAh Lithium-Ion
Charging Port	TYPE-C USB
Shell Material	Aluminum alloy
Product Dimensions	Approx. 117 x 112 x 45 mm (4.61 x 4.41 x 1.77 inches)
Item Weight	1.52 pounds
Special Features	LNA Function, HI-Z Mode, Built-in Bandpass Filtering Circuit, CW Decoding, RDS Support, Firmware Upgradeable

9. Warranty and Support

SDRGEEK products typically come with a manufacturer's warranty. Please refer to the warranty card included with your product or visit the official SDRGEEK website for detailed warranty terms and registration information.
For technical support, troubleshooting assistance, or inquiries regarding firmware updates, please contact SDRGEEK customer service through their official channels. Keeping your purchase receipt and product serial number readily available will expedite the support process.
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