

GUIJIALY 500431213

ATS200 Aviation Band Radio User Manual

Model: [500431213](#) | Brand: [GUIJIALY](#)

1. INTRODUCTION

Thank you for choosing the GUIJIALY ATS200 Aviation Band Radio. This advanced multimode receiver is designed for enthusiasts and professionals, offering a wide range of frequency reception including FM, AM, LSB, USB, and Aviation bands. Featuring a 2.4-inch color touch display, Bluetooth connectivity, and a robust aluminum alloy housing, the ATS200 provides an intuitive and high-performance listening experience. This manual will guide you through the setup, operation, and maintenance of your new radio.



Figure 1: Front view of the ATS200 Aviation Band Radio, showcasing its 2.4-inch color touch display and speaker grille.

2. PRODUCT OVERVIEW AND FEATURES

The ATS200 radio is equipped with a variety of features designed for versatile reception and user convenience:

- **TFT 2.4-inch Color Touch Screen:** Provides an intuitive interface for navigation and settings.
- **Multimode Reception:** Supports FM, AM, LSB, USB, and AIR (Aviation) frequency bands.
- **Built-in Bluetooth 5.3:** High-fidelity stereo audio transmission for connecting Bluetooth earphones or sharing audio.
- **Frequency Spectrum Scanning:** Allows for visual scanning of radio frequencies.
- **LNA Amplifier:** Switchable Low Noise Amplifier for improved signal reception in various conditions.
- **Automatic Band Switching:** Seamless switching between AM/FM bands without interference.
- **Encoder and Touch Screen Locking:** Prevents accidental changes when carried.

- **Integrated Antennas:** Built-in 820mm ultra-long rod antenna and external antenna interface.
- **Power Features:** Battery percentage display, backlight brightness adjustment, backlight off function, built-in 3.7V/1200MA high capacity lithium battery.
- **Additional Features:** Top LED mini flashlight, 3.5mm stereo headphone output (headphone cable can act as FM antenna), universal TYPE-C interface for charging and program upgrades.
- **Durable Construction:** High precision CNC aluminum alloy sturdy housing.



Figure 2: Top view of the ATS200, highlighting the USB-C charging port, tuning knob, and antenna connection.



Figure 3: Bottom view of the ATS200, showing the external antenna interfaces for SW/SSB, MW, and a general antenna port.

3. SETUP

3.1. Initial Charging

Before first use, fully charge the ATS200 radio. Connect the provided USB Type-C cable to the charging port on the top of the device (refer to Figure 2) and plug the other end into a standard USB power adapter (not included). The LED indicator will show charging status. A full charge ensures optimal battery life.

3.2. Antenna Connection

- **Built-in Rod Antenna:** For general reception, extend the built-in 820mm rod antenna located on the top of the device. Ensure it is fully extended for best performance.
- **External Antenna:** For enhanced reception, especially for SW, SSB, and MW bands, connect an appropriate external antenna to the 3.5mm external antenna interface at the bottom of the radio (refer to Figure 3).
- **FM Headphone Antenna:** When listening to FM radio, if headphones are connected to the 3.5mm

stereo headphone output, the headphone cable can act as an FM antenna.

3.3. Powering On/Off

Locate the power button (usually integrated with the tuning knob or a dedicated button). Press and hold to power the device on or off. The screen will illuminate upon power-on.

4. OPERATING INSTRUCTIONS

4.1. Basic Operation

- **Volume Control:** Adjust the volume using the dedicated volume control on the touch screen or a physical knob if available.
- **Touch Screen Navigation:** Tap on icons and menus on the 2.4-inch touch screen to navigate through functions and settings.
- **Encoder Knob:** Use the rotary encoder knob for fine-tuning frequencies, navigating menus, and adjusting settings.
- **Screen Lock:** To prevent accidental input, utilize the touch screen and encoder locking function. Refer to the on-screen menu for activation.

4.2. Tuning and Mode Selection

- **Band Selection:** On the main screen, select the desired frequency band (FM, AM, SW, SSB, AIR) by tapping the corresponding button. The radio supports automatic band switching for AM/FM.
- **Frequency Tuning:** Use the rotary encoder knob to tune to specific frequencies. For faster tuning, you may be able to input frequencies directly via the touch screen keypad.
- **SSB (Single Sideband) Tuning:** For LSB and USB modes, use the fine-tuning capabilities of the encoder knob for clear reception.
- **Aviation Band (AIR):** Select the AIR band to receive aviation communications within the 118-138MHz AM range.

4.3. Special Features

- **Bluetooth Connectivity:**
 - a. Navigate to the Bluetooth settings menu.
 - b. Enable Bluetooth on the ATS200.
 - c. On your Bluetooth earphones or speaker, enable pairing mode.
 - d. Select your device from the list on the ATS200 screen to connect.
- **LNA Amplifier:** Access the LNA (Low Noise Amplifier) setting via the menu. Toggle it on or off depending on signal strength and interference. Enabling LNA can improve reception for weak signals.
- **Frequency Spectrum Scan:** Activate the spectrum scanning function from the menu to visually identify active frequencies.
- **Backlight Adjustment:** Adjust the screen backlight brightness through the settings menu. An option to turn off the backlight is also available to conserve battery.
- **LED Mini Flashlight:** The radio includes a small LED flashlight at the top. Activate it via a dedicated button or menu option.
- **FMRDS Information Display:** When tuned to an FM station broadcasting RDS (Radio Data

System) information, the ATS200 will display station name, song title, and other relevant data.

5. MAINTENANCE

5.1. Cleaning

Wipe the radio with a soft, dry cloth. For stubborn dirt, slightly dampen the cloth with water. Do not use harsh chemicals, solvents, or abrasive cleaners, as these can damage the housing and screen.

5.2. Battery Care

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

5.3. Storage

When storing the radio, ensure the antenna is retracted. Keep it away from extreme temperatures, direct sunlight, and high humidity.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Radio does not power on.	Battery is depleted.	Charge the radio using the USB Type-C cable.
Poor reception or static.	Antenna not extended or connected properly; weak signal; interference.	Fully extend the built-in antenna or connect an external antenna. Try moving to a different location. Enable LNA if applicable.
Bluetooth device not connecting.	Bluetooth not enabled on radio or device; device not in pairing mode; out of range.	Ensure Bluetooth is enabled on both devices. Put your Bluetooth device into pairing mode. Move devices closer.
Touch screen unresponsive.	Screen lock is active; temporary software glitch.	Deactivate screen lock. Try restarting the radio.

7. SPECIFICATIONS

Model Number	500431213
Brand	GUIJIALY

Product Dimensions	16 x 10 x 5 cm
Item Weight	260 Grams
Material	Aluminium alloy
Connectivity Technology	Bluetooth
Power Source	Battery Powered (Built-in 3.7V/1200MA Lithium Battery)
Display	2.4-inch TFT Color Touch Screen
Supported Radio Bands	FM: 64-108MHz (with RDS function) LW: 153kHz-500kHz MW: 520kHz-1710kHz SW: 1730kHz-30000kHz SSB: 1730kHz-30000kHz AIR: 118-138MHz AM AM: 1-200MHz
Included Components	ATS200 Aviation Band Radio, Battery (built-in)

8. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided at the time of purchase or contact your retailer. You may also reach out to the manufacturer, GUIJIALY, for assistance. Please have your model number (500431213) and purchase details ready when contacting support.

Manufacturer: GUIJIALY