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› Locadence ATS25X2 DSP Full Band Shortwave Radio Receiver User Manual

Locadence ATS25X2

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Model: ATS25X2 | Brand: Locadence

1. INTRODUCTION

This manual provides detailed instructions for the operation and maintenance of your Locadence ATS25X2 DSP Full Band Shortwave Radio Receiver. Please read this manual thoroughly before use to ensure optimal performance and longevity of your device. The ATS25X2 is a portable DSP full band radio receiver designed for comprehensive radio reception across various frequency bands, including FM, LW, MW, SW, and SSB. It features a color touch screen, spectrum scanning, and multiple connectivity options.

2. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- 1 x ATS25X2 Host Unit
- 1 x Touch Pen
- 1 x Wifi Antenna
- 1 x Tie Rod Antenna
- 1 x Type-C Charging Data Cable
- 1 x Wipe Cloth
- 1 x Corner Pad
- 1 x User Manual (this document)



Image: The ATS25X2 host unit displayed with its accompanying accessories, including antennas, charging cable, and touch pen.

3. PRODUCT OVERVIEW

The ATS25X2 receiver is designed for versatility and ease of use, featuring a robust aluminum alloy casing and a clear color touch screen. Its compact size makes it portable for various listening environments.



Image: Front view of the ATS25X2 radio, highlighting its display interface and rotary tuning knob.



Image: Top and bottom perspectives of the ATS25X2, illustrating the speaker grille and connection ports.

4. SETUP

4.1 Charging the Device

Before initial use, fully charge the receiver. Connect the provided Type-C charging data cable to the receiver's Type-C port and a compatible USB power adapter (not included). The maximum charging current is 1.5A. A charging indicator will typically illuminate during the charging process.

4.2 Attaching Antennas

For optimal reception, attach the appropriate antenna. The device includes a Tie Rod Antenna for general reception across various bands and a Wifi Antenna for specific network-related functions. Ensure antennas are securely connected to their respective ports.

4.3 Initial Power On

Press and hold the power button, usually located on the side or top of the unit, to turn on the receiver. The 2.4-inch color touch screen will illuminate.

5. OPERATING INSTRUCTIONS

5.1 Display and Navigation

The receiver features a 2.4-inch color touch screen for intuitive navigation. Tap on screen elements to select functions or input data. The display offers a seamless reading experience for smoother data access.



Image: The AT25X2 radio with its bright, illuminated display, showcasing the user interface in a dim environment.

5.2 Frequency Tuning and Search

Frequencies can be input directly using the numeric keypad on the touch screen. The device also includes a radio search function to automatically find active stations and offers fast channel switching capabilities. Use the high-accuracy rotary encoder knob for precise frequency adjustments.

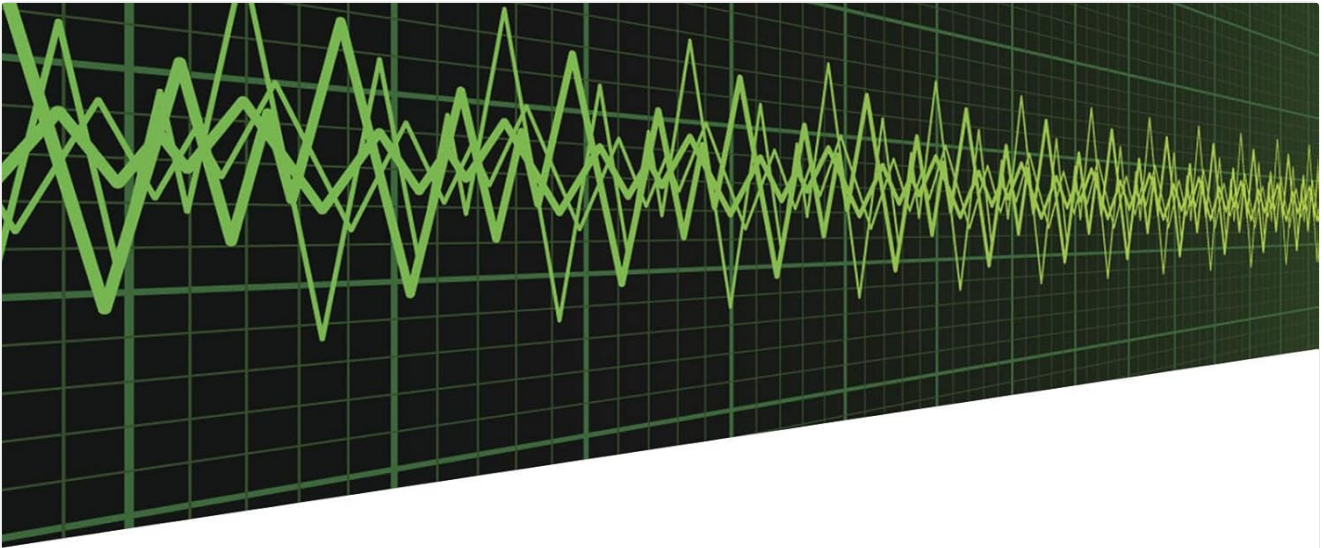
5.3 Band Selection

The AT25X2 supports a wide range of frequency bands. Select the desired band using the on-screen controls:

- **FM:** 64-108MHz (includes RDS functions for station information)
- **LW (Longwave):** 153kHz-500kHz
- **MW (Mediumwave):** 520kHz-1710kHz
- **SW (Shortwave):** 1730kHz-30000kHz
- **SSB (Single Sideband):** 1730kHz-30000kHz

5.4 Spectrum Scanning

Utilize the radio frequency spectrum scanning function to visually identify active frequencies and signal strengths across the selected band. This feature aids in finding stations and understanding signal propagation.



Radio frequency spectrum scanning function
Backlight brightness can be adjusted or turned off
Battery voltage percentage display
FM RDS information display, WIFI network timing display
High accuracy rotary long life encoder knob



Image: The AT25X2 radio with its antennas extended, showing the spectrum scanning interface on its color display.

5.5 Display Features

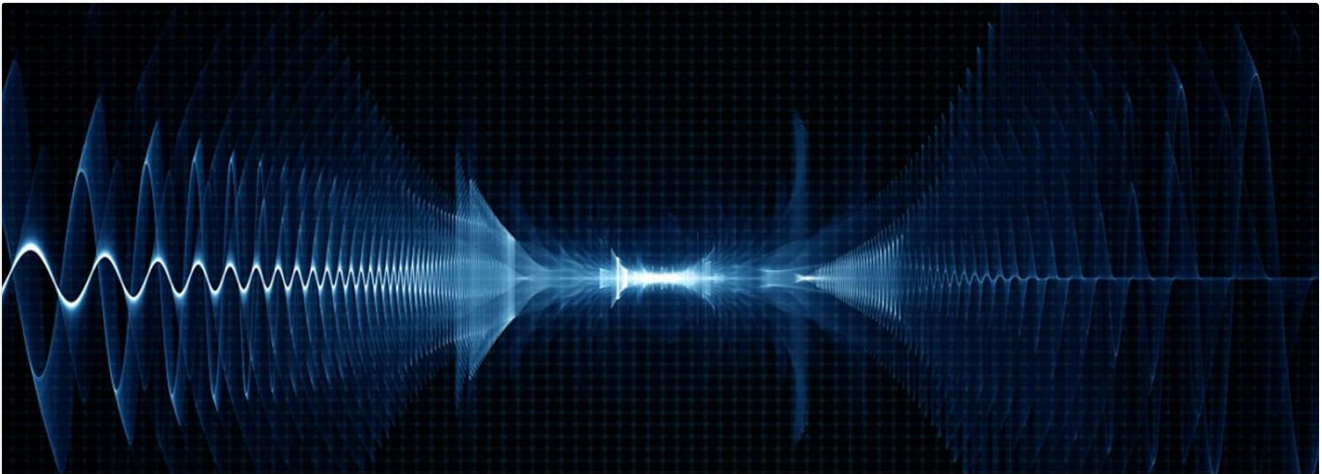
The display provides several informational features for enhanced user experience:

- Adjustable backlight brightness for various lighting conditions.
- Battery voltage percentage display to monitor power levels.
- FM RDS (Radio Data System) information display.
- WIFI network timing display for accurate time synchronization.

5.6 Connectivity

The receiver offers multiple connectivity options:

- **Audio Output:** A 3.5mm stereo audio output allows connection to headphones or external speakers.
- **FM Antenna Interface:** A dedicated 3.5mm audio FM antenna interface for improved FM reception.
- **External Antenna:** A 2.4G external antenna interface for strong reception across various bands.
- **WIFI Configuration:** Mobile APP WIFI configuration is available, along with time zone custom settings for added convenience.



TYPE C interface upgrade program
 3.5mm stereo audio output
 3.5mm audio fm antenna interface
 Maximum charging current for 1.5A
 Search function and frequency input
 directly on numeric keypad



Image: The AT25X2 radio with its antennas, illustrating the display of technical parameters and interface information.

6. SPECIFICATIONS

Feature	Detail
Model	AT25X2
Brand	Locadence
Material	Aluminum alloy

Feature	Detail
Battery	Lithium 3.7V 2000mAh
Charging Interface	Type-C (Max 1.5A)
Audio Output	3.5mm Stereo
FM Antenna Interface	3.5mm Audio
External Antenna	2.4G Interface
Display	2.4-inch Color Touch Screen
FM Frequency Range	64-108MHz
LW Frequency Range	153kHz-500kHz
MW Frequency Range	520kHz-1710kHz
SW Frequency Range	1730kHz-30000kHz
SSB Frequency Range	1730kHz-30000kHz
Item Weight	1.17 pounds (approx. 0.53 kg)
Product Dimensions	6.69 x 5.12 x 2.36 inches (approx. 17 x 13 x 6 cm)

7. MAINTENANCE

To ensure the longevity and optimal performance of your ATS25X2 receiver, follow these maintenance guidelines:

- **Cleaning:** Use the provided wipe cloth to clean the device. Avoid abrasive cleaners, solvents, or strong chemicals, as these can damage the screen or casing.
- **Storage:** Store the receiver in a dry environment, away from extreme temperatures, high humidity, and direct sunlight.
- **Handling:** Avoid dropping or subjecting the device to strong impacts. Handle antennas carefully to prevent bending or breaking.
- **Antennas:** Ensure antennas are properly secured but not overtightened. Retract the tie rod antenna when not in use to prevent damage.

8. TROUBLESHOOTING

If you encounter issues with your ATS25X2 receiver, refer to the following common troubleshooting steps:

8.1 No Power

- Check the battery charge level.
- Ensure the Type-C charging cable is properly connected to both the receiver and a working power source.

- Try pressing and holding the power button for a few seconds to ensure it's not just a brief press.

8.2 Poor Reception

- Extend the tie rod antenna fully for better signal capture.
- Ensure the correct antenna is attached for the desired frequency band (e.g., 3.5mm audio FM antenna for FM).
- Try repositioning the radio or antenna to find a location with better signal strength, away from electronic interference.
- Check the selected band and frequency to ensure they are correct.

8.3 Display Issues

- Adjust backlight brightness in the settings menu.
- If the screen is unresponsive, try restarting the device by powering it off and on again.
- Ensure the touch pen is used for precise interaction if finger input is inconsistent.

9. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries regarding your Locadence ATS25X2 DSP Full Band Shortwave Radio Receiver, please refer to the specific warranty card or documentation included with your purchase. You may also contact Locadence customer service through their official website or the contact information provided in your product packaging.