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> DmgicPro SI4732 ATS-25 max-Decoder Full-Band Radio Receiver User Manual

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Model: ATS-25max-Decoder

INTRODUCTION

This manual provides comprehensive instructions for the DmgicPro SI4732 ATS-25 max-Decoder Full-Band Radio Receiver. Designed for enthusiasts and professionals, this receiver offers a wide range of frequency bands and advanced decoding capabilities, including Morse code and various digital communication modes. Please read this manual thoroughly before operating the device to ensure proper use and to maximize your listening experience.

SAFETY INFORMATION

- Do not expose the device to extreme temperatures, direct sunlight, or high humidity.
- Avoid dropping or subjecting the device to strong impacts.
- Use only the specified charging cable and power adapter.
- Do not attempt to disassemble or modify the device. This will void the warranty and may cause damage.
- Keep the device away from water and other liquids. This product is not water resistant.
- Ensure proper ventilation when operating the device for extended periods.

PACKAGE CONTENTS

Verify that all items are present in the package:

- DmgicPro SI4732 ATS-25 max-Decoder Full-Band Radio Receiver
- Owner's Manual
- USB Type-C Charging Cable
- Telescopic Antenna
- Stubby Antenna

PRODUCT OVERVIEW

Familiarize yourself with the main components and controls of your ATS-25 max-Decoder radio receiver.



Figure 1: Front view of the ATS-25 max-Decoder radio receiver. This image highlights the main display, tuning knob, and control buttons for functions like HAM, BAND, FREQ, MODE, BFO, STEP, BANDW, and NEXT. Both a telescopic and a stubby antenna are shown attached.

New Version with Upgraded Functions



**Decoder Function
(Decoder has been completed)**



8 CW Modes



New Upgraded 4.17V



WiFi Function

Figure 2: Display interfaces of the ATS-25 max-Decoder. This composite image illustrates the 'Setup' menu for decoder functions, the 'Modulation' screen with 8 CW modes (LSB, AM, USB, CW, DIGI, CWR, SYNC L, SYNC U), the Harduino firmware version 4.17 screen, and the main radio interface with WiFi function enabled.

SETUP

1. Charging the Battery

The ATS-25 max-Decoder is equipped with a 3000mAh lithium-ion battery. Before first use, fully charge the device.

1. Connect the USB Type-C charging cable to the device's Type-C port.
2. Connect the other end of the cable to a compatible USB power adapter (not included) or a computer USB port.
3. The charging indicator on the device will show charging status. A full charge typically takes several hours.

3000mAh Battery

Using time is related to screen brightness and volume.



Figure 3: Charging the ATS-25 max-Decoder. The image shows the radio connected to a wall adapter using its Type-C charging port, indicating the charging process.

2. Attaching the Antenna

For optimal reception, attach the included telescopic or stubby antenna to the BNC connector on the device.

1. Align the BNC connector on the antenna with the BNC port on the radio.
2. Push the antenna connector onto the port and twist clockwise until it locks securely.
3. For best performance, extend the telescopic antenna fully when in use.

3. Initial Power On

Press and hold the power button for a few seconds until the display illuminates. The device will boot up and display the main operating interface.

OPERATION

1. Frequency Range and Band Selection

The ATS-25 max-Decoder supports a wide range of frequencies across multiple bands:

- **FM:** 64-108MHz (with RDS function)
- **LW:** 153-500KHz
- **MW:** 520-1710KHz
- **SW:** 1730-30000KHz
- **SSB:** 17030KHz

Use the **BAND** button to cycle through available frequency bands. The display will indicate the currently selected band.

Frequency Range



The image shows a black ATS25 max-Decoder receiver with a digital display and various control buttons. The display shows '48.40 KHz' and 'Speed MPH: 42'. The receiver has a large tuning knob on the right side and a BNC antenna interface on top. The background features a stylized frequency spectrum graph.

Fm:64 functions 108MHz/rds functions	Sw:1730khz 30000khz
Lw:153khz 500khz	Ssb:1730khz 30000khz
Mw:520khz 1710khz	Antenna interface: BNC

Figure 4: Frequency Range overview. This image visually represents the supported frequency ranges for FM, LW, MW, SW, and SSB, along with the antenna interface type (BNC).

2. Tuning and Frequency Entry

1. **Tuning Knob:** Rotate the large knob on the right side of the device to adjust the frequency. The tuning step can be

changed using the **STEP** button.

2. **Direct Frequency Entry:** Use the numeric keypad to directly input a desired frequency. Press the **FREQ** button to activate frequency entry mode, input the numbers, and confirm.
3. **Station Search Function:** The device includes a station search function. Consult the on-screen menus for this feature.
4. **HAM Band Fast Channel:** A dedicated **HAM** button allows for quick access to amateur radio bands.



Figure 5: Ease of Use. This image depicts a user enjoying the radio, emphasizing its simple station search, direct frequency entry, and HAM band fast channel features.

3. Modulation Modes and Digital Decoding

The ATS-25 max-Decoder supports various modulation modes and advanced digital decoding capabilities.

- **Standard Modes:** LSB, AM, USB, CW. Use the **MODE** button to switch between these.
- **New Modes:** DIGI (FT4, FT8), CWR, SYNC L, SYNC U. These modes enhance the receiver's versatility for digital communication.

- **Digital Communication Decoder:** Built-in support for RTTY, FT8, FT4, and FELD-HELL. The latest H-RADIO firmware is preinstalled and activated.
- **CW Network Signal:** The device can display CW network signals in 4 formats. Use the stylus (or touch screen) to interact with the CW network display to change formats.

CW Network Signal in 4 Formats

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



Figure 6: CW Network Signal Formats. This image demonstrates the radio's ability to display CW signals in various visual formats, with instructions to use a stylus to change the format.

8 CW Modes

Add 4 new CW modes

DIGI
CWR
SYNC L
SYNC U

VS



Figure 7: 8 CW Modes. This image highlights the expanded number of CW modes available on the ATS-25 max-Decoder, including DIGI, CWR, SYNC L, and SYNC U, compared to previous versions.

4. WiFi Functionality

The ATS-25 max-Decoder features built-in WiFi connectivity, allowing for advanced functions without the need for external mobile software. Specific WiFi setup instructions are typically found within the device's 'Setup' or 'Settings' menu.

5. Audio Output

The device supports 3.5mm stereo audio output for connecting headphones or external speakers, providing clear sound and low noise.

6. Display Settings

The display can be customized for user preference:

- **Orientation:** The display can be rotated 90 degrees (horizontal to vertical). This setting is usually found in the system or display settings menu.

- **Retro Mode:** A "retro" setting is available to change the display appearance to resemble older shortwave radio consoles.

MAINTENANCE

1. Cleaning

- Wipe the device with a soft, dry cloth.
- Do not use abrasive cleaners, solvents, or strong chemicals.
- Ensure no liquid enters the ports or openings.

2. Battery Care

- To prolong battery life, avoid fully discharging the battery frequently.
- Charge the device regularly, even if not in frequent use.
- Store the device in a cool, dry place when not in use for extended periods.

3. Storage

- When storing the radio, ensure it is powered off.
- Keep it in a protective case or bag to prevent scratches and damage.
- Store away from direct sunlight and extreme temperatures.



Figure 8: Portable Design. The image shows the compact size of the radio, making it easy to carry in a backpack for on-the-go use.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Battery is depleted.	Charge the device fully using the Type-C cable.
Poor reception or no signal.	Antenna not properly connected or extended. Weak signal in current location. Incorrect band/mode selected.	Ensure antenna is securely attached and fully extended. Move to an area with better signal. Verify the correct frequency band and modulation mode are selected. Consider an external antenna for better performance.

Problem	Possible Cause	Solution
Screen freezes or device shuts down unexpectedly.	Software glitch or low battery.	Perform a soft reset (power off and on). If issue persists, ensure battery is charged. If problem continues, contact customer support.
Digital modes (FT8, RTTY) not decoding.	Incorrect settings or weak signal.	Ensure the correct digital mode is selected. Verify signal strength and clarity. Check decoder settings in the menu.

SPECIFICATIONS

Feature	Detail
Model Number	ATS-25max-Decoder
Brand	DmgicPro
Dimensions (L x W x H)	7.59 x 7.16 x 2.55 inches (19.28 x 18.19 x 6.48 cm)
Weight	1.17 pounds (0.53 kg)
Battery	3000mAh Lithium Ion (included)
Charging Interface	Type-C (Max 1.2A charging current)
Frequency Range (FM)	64-108MHz (with RDS function)
Frequency Range (LW)	153-500KHz
Frequency Range (MW)	520-1710KHz
Frequency Range (SW)	1730-30000KHz
Frequency Range (SSB)	17030KHz
AM Bandwidth	1-6KHz
SSB Bandwidth	0.5-4.0KHz
Tuner Technology	SSB
Connectivity Technology	USB, WiFi
Special Feature	Portable, Built-in Morse Code & Digital Communication Decoder (RTTY, FT8, FT4, FELD-HELL)
Audio Output	3.5mm Stereo
Country of Origin	China
Water Resistance Level	Not Water Resistant

WARRANTY AND SUPPORT

DmgicPro products are manufactured to high quality standards. For warranty information and technical support, please refer to the contact details provided on the product packaging or the official DmgicPro website. Keep your purchase receipt as proof of purchase for warranty claims.

For further assistance, please visit the manufacturer's support page or contact their customer service directly.