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Radiolink AT9S Pro

Radiolink AT9S Pro 10/12CH 2.4G Transmitter User Manual

Model: AT9S Pro

1. Introduction

This manual provides essential instructions for the proper setup, operation, and maintenance of your Radiolink AT9S Pro 10/12CH 2.4G radio transmitter. Please read this manual thoroughly before using the product to ensure safe and efficient operation. The AT9S Pro is designed for controlling various RC models, including airplanes, drones, and boats, offering advanced features and reliable performance.

2. Key Features

- **10/12 Channels:** Versatile control options for various models.
- **DSSS&FHSS Communication:** Ensures stable transmission signal and long control range up to 3.3 km.
- **3ms Fast Response:** Quick and precise control.
- **Real-time Telemetry:** Works with PRM-03 for real-time data feedback.
- **Programmable Mix Control:** Advanced customization for complex setups.
- **Safety Features:** RSSI alert, radio/receiver/model low voltage alarm with audible, vibratory, and visual warnings.
- **Multiple Model Options:** Supports helicopters, quads, planes, gliders, cars, and boats.
- **3-in-1 Multi-function Port:** Supports most simulators and TBS Crossfire protocol (module 915), and trainer mode.
- **15 Models Data Storage:** Conveniently store and switch between multiple model configurations.



Image: Overview of the Radiolink AT9S Pro's key features, including 10/12 channels, 15 model storage, programmable mix control, long range, Crossfire/ExpressLRS protocol support, and fly information telemetry support.

3. Product Overview

3.1 Transmitter Components

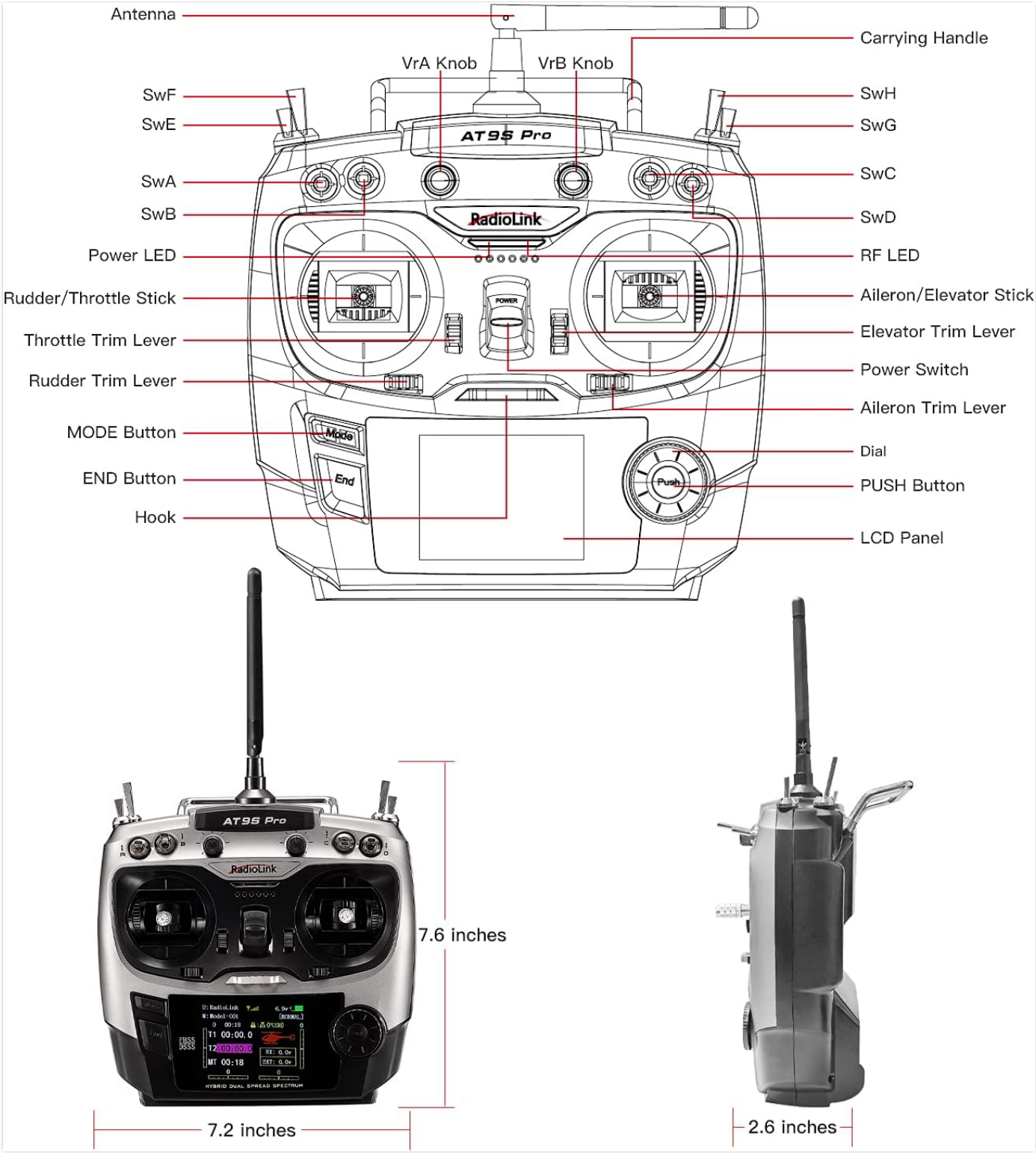


Image: Detailed diagram of the Radiolink AT9S Pro transmitter with labels for antenna, knobs (VrA, VrB), switches (SwF, SwE, SwH, SwG, SwC, SwD, SwA, SwB), Power LED, RF LED, Rudder/Throttle Stick, Elevator/Aileron Stick, Trim Levers, Power Switch, Mode Button, END Button, Hook, Dial, PUSH Button, and LCD Panel.

3.2 Ergonomic Features

- **Switches and Knobs:** Features 3 knobs, 3 three-way position switches, and 4 two-way position switches, along with a reset trainer switch for various settings. Auxiliary channels are customizable.
- **High Precision Sticks:** Adjustable length and tension for precise control.
- **2.8 Inch Color Screen:** Clear display with option to switch to white background.
- **Dial Switch:** For fast setting adjustments.



Image: Illustrates the ergonomic features of the AT9S Pro, including various types of switches, high-precision and durable sticks, the 2.8-inch color screen, and the dial switch for quick settings.

3.3 What's in the Box



Image: Shows the contents of the AT9S Pro package, including the AT9S Pro transmitter, R9DS receiver, neck strap, hook and spring, sticker, user manual, and packaging box.

4. Setup

4.1 Battery Installation

The AT9S Pro can be powered by 8 AA batteries or a 2S-4S LiPo battery. Ensure correct polarity when installing batteries. The battery compartment is designed with reverse polarity protection.

Image: Rear view of the AT9S Pro transmitter showing the battery compartment and multi-function connector. It highlights the universal JST 2-pin battery connector with AA battery support and reverse polarity protection.

4.2 Receiver Binding (R9DS)

To establish communication between the transmitter and receiver (e.g., R9DS), a binding process is required. Refer to the specific R9DS receiver manual for detailed binding instructions. Ensure the receiver is powered on and in binding mode before initiating the process on the transmitter.

4.3 Signal Output Modes (PWM/SBUS)

The R9DS receiver supports two signal output modes: PWM (Red LED) and SBUS (Blue LED). Select the appropriate mode based on your flight controller or servo setup. Consult your receiver's manual for instructions on switching between these modes.

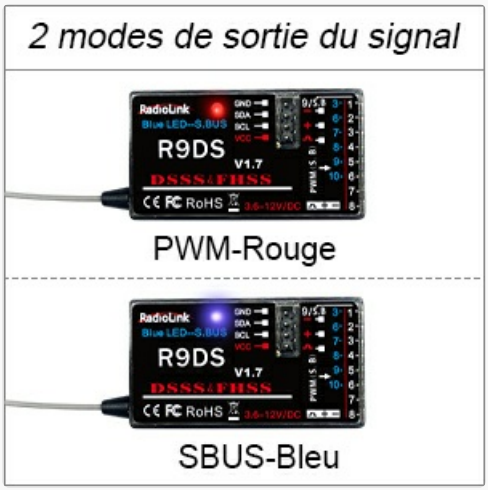


Image: Illustrates the R9DS receiver with its two signal output modes: PWM (Red LED) and SBUS (Blue LED).

4.4 Compatible Receivers

The AT9S Pro is compatible with Radiolink R12DS, R12DSM, R9DS, R6DS, and R6DSM receivers. Ensure you are using a compatible Radiolink receiver for proper operation.



Image: A visual representation of the Radiolink AT9S Pro transmitter surrounded by its compatible receivers: R12DS, R12DSM, R9DS, R6DS, and R6DSM.

5. Operating Instructions

5.1 Basic Controls

Familiarize yourself with the main control sticks (Rudder/Throttle, Elevator/Aileron), trim levers, and various switches and knobs. The AT9S Pro typically operates in Mode 2 (left stick for throttle/rudder, right stick for aileron/elevator).

5.2 Menu Navigation

Use the Dial and PUSH button to navigate through the 2.8-inch color LCD screen menus. The menus allow for model selection, parameter adjustments, and feature configuration.

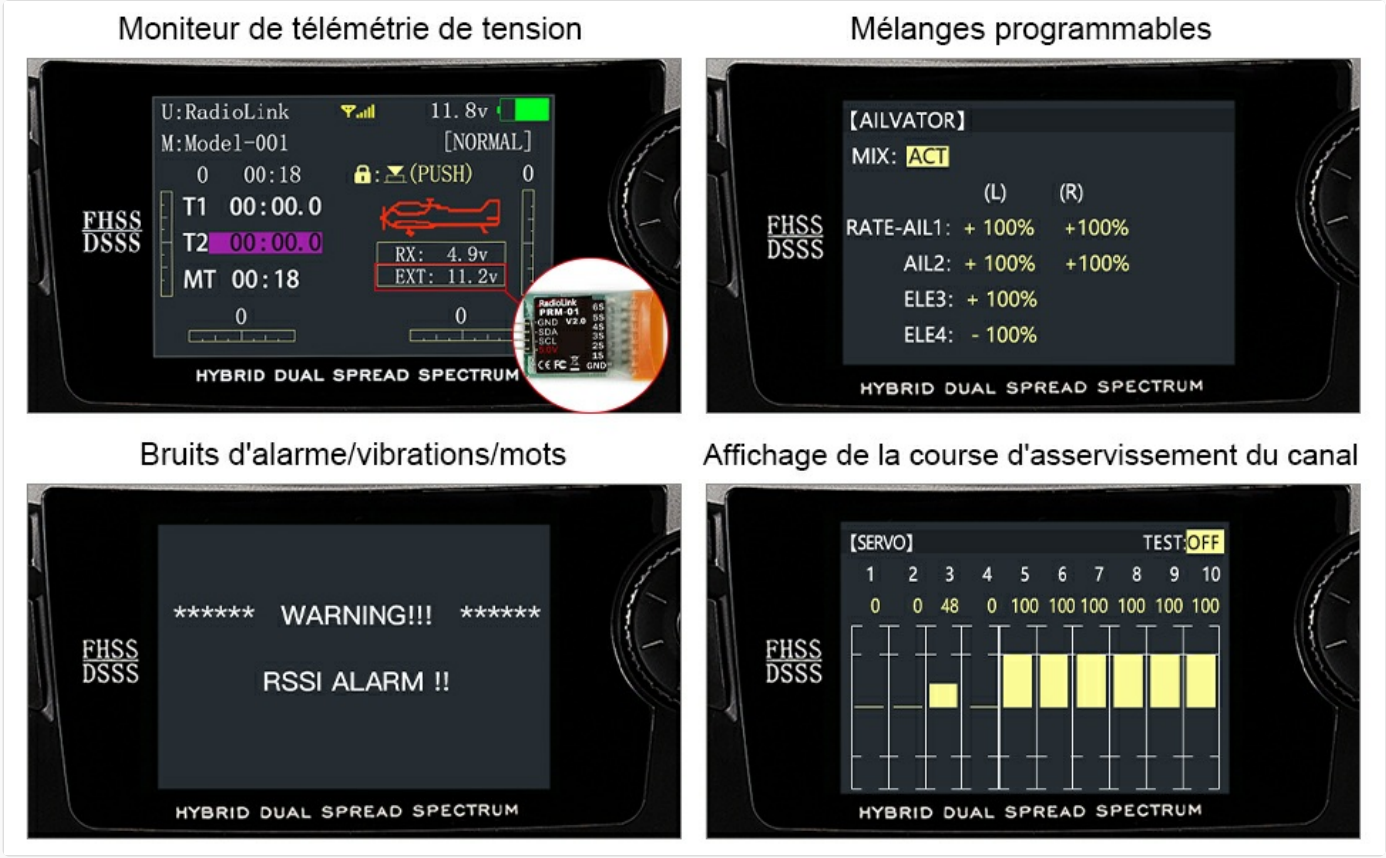


Image: Displays various screen views of the AT9S Pro, including voltage telemetry monitoring, programmable mixes, alarm messages (RSSI ALARM), and channel servo travel display.

5.3 Programmable Mix Control

The AT9S Pro offers extensive programmable mix control options. Access the 'MIX' menu to configure custom mixes for advanced flight characteristics or specific model requirements. Refer to the on-screen prompts and the detailed digital manual for specific programming steps.

5.4 Telemetry Functions

When used with a compatible telemetry module (e.g., PRM-03) and receiver, the AT9S Pro provides real-time telemetry data on its LCD screen. This includes battery voltage, RSSI (Received Signal Strength Indicator), and other flight information. Configure telemetry alerts in the system settings.

5.5 Simulator and Trainer Mode

The 3-in-1 multi-function port allows connection to most RC simulators for practice. It also supports trainer mode, enabling a student and instructor to share control. Connection cables for simulator and trainer mode are sold separately.



Image: Illustrates the 3-in-1 multi-function port on the AT9S Pro, showing its compatibility with TBS CRSF, simulators, and trainer (PPM) connections. The port supports PPM/SBUS/CRSF protocols.

5.6 Firmware Updates

The AT9S Pro supports firmware updates via its USB port. Regularly check the Radiolink official website for the latest firmware versions and update instructions to ensure optimal performance and access to new features.

6. Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the transmitter. Avoid using solvents or abrasive cleaners.
- **Storage:** Store the transmitter in a cool, dry place away from direct sunlight and extreme temperatures. Remove batteries if storing for extended periods.
- **Inspection:** Periodically check all switches, sticks, and connections for any signs of wear or damage.
- **Antenna Care:** Ensure the antenna is not bent or damaged. Always extend it fully during operation.

7. Troubleshooting

- **No Power:** Check battery installation and charge level. Ensure the power switch is in the ON position.
- **No Signal/Loss of Control:**
  - Verify that the transmitter and receiver are properly bound.
  - Check the distance between the transmitter and model; ensure it's within the operational range.
  - Inspect antennas on both transmitter and receiver for damage.
  - Check for potential interference from other 2.4Ghz devices.
- **Incorrect Control Response:**
  - Ensure correct model type is selected in the transmitter settings.
  - Check servo directions and endpoints in the programming menus.
  - Verify that all channels are correctly assigned and calibrated.
- **Telemetry Data Not Displaying:** Ensure the telemetry module (e.g., PRM-03) is correctly connected and configured, and the receiver supports telemetry.

8. Specifications

Feature	Specification
Brand	Radiolink
Model Number	AT9S Pro
Channels	10/12 Channels
Frequency	2.4G DSSS&FHSS
Control Range	Up to 3.3 km (air)
Response Speed	3ms
Compatible Receivers	R12DS, R12DSM, R9DS, R6DS, R6DSM
Power Source	8 AA Batteries or 2S-4S LiPo Battery
Dimensions	183 x 100 x 193 mm
Weight	880 Grams
Material	Plastic
Color	Silver

9. Warranty and Support

Radiolink products are manufactured to high-quality standards. For warranty information, technical support, or service inquiries, please refer to the official Radiolink website or contact your authorized dealer. Keep your proof of purchase for warranty claims.
Note: Not compatible with non-Radiolink receivers.

10. Important Safety Information

- Always operate your RC model in open areas, away from people, vehicles, and obstacles.
- Ensure all batteries are fully charged before each use.
- Perform a range check before operating your model at a distance.
- Never operate your RC model in adverse weather conditions (e.g., strong winds, rain).
- Always turn on the transmitter first, then the receiver. When finished, turn off the receiver first, then the transmitter.
- Be aware of low voltage alarms and land your model safely when triggered.

11. Additional Resources

For further assistance, tutorials, and community support, visit the official Radiolink website or search for online resources specific to the AT9S Pro transmitter.

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