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Radiolink T8S

Radiolink T8S RC Transmitter User Manual

Model: T8S | Brand: Radiolink

1. INTRODUCTION

Thank you for choosing the Radiolink T8S 8-channel 2.4GHz RC Transmitter and R8EF Receiver. This system is designed for a wide range of remote-controlled models, including quadcopters, airplanes, cars, and boats. The T8S features advanced FHSS communication technology, ensuring stable signal transmission and extended control range.

Key features include low latency, dual-rate functionality, low voltage and signal alarms, fail-safe settings, programmable mixing controls, and wireless training capabilities. Its ergonomic design ensures comfortable handling for both beginners and experienced users. This manual provides essential information for setting up, operating, and maintaining your Radiolink T8S system.

2. PACKAGE CONTENTS

Please verify that all items listed below are included in your package:

- 1 x Radiolink T8S Remote Controller
- 1 x USB Cable (for upgrade/charge)
- 1 x Radiolink R8EF Receiver
- 1 x Hook and Spring
- 1 x Packing Box



Image: Contents of the Radiolink T8S package.

3. PRODUCT OVERVIEW

The Radiolink T8S transmitter is designed for intuitive control, featuring dual high-precision sticks and various programmable buttons and switches. The included R8EF receiver provides reliable signal reception for your model.



Image: Radiolink T8S transmitter, R8EF receiver, and carrying case.

3.1 Transmitter Layout

The T8S transmitter features a user-friendly layout with clearly labeled controls:

- **Throttle/Steering Sticks:** Dual high-precision sticks for primary control.
- **Channel 1/Channel 2:** Additional control inputs.
- **Three-way switches (SWA, SWB):** Programmable switches for various functions.
- **Knob-switches (VRA, VRB):** Rotary knobs for fine adjustments, e.g., gyro sensitivity.
- **Push Button (VRB):** Programmable push button, e.g., remote camera shutter.

- **Power Button:** To turn the transmitter on/off.
- **Trimmer Buttons:** For fine-tuning stick neutral positions.
- **Battery Indicator:** LEDs indicating battery charge level.

App Download



iOS system



Android system



T8S Setting by App



EPA/Fail-Safe



Dual Rate



4 Sets of Mix Control



Expo. Setup

Image: Detailed view of T8S transmitter controls and their functions.

3.2 R8EF Receiver

The R8EF receiver is an 8-channel receiver compatible with the T8S transmitter, supporting PWM, PPM, and S-BUS signals. It ensures reliable communication between your transmitter and model.



Image: Radiolink T8S transmitter and R8EF receiver.

3.3 Carrying Case

The included carrying case provides protection and convenient transport for your T8S transmitter. Its compact design ensures easy portability.

Dimension



Image: T8S transmitter inside its protective carrying case.

Versatile Capabilities

Dual-Stick, Comfort Control



T8S features dual high precision sticks, smooth control, and finishes each control accurately.

Low Consumption and Rechargeable



Built-in 1s 900mAh battery, can be charged through a USB cable(Package included).

Re-mould, Ergonomically for Adult and Teenager



T8S is only 142g(5.0oz) weight, with integrated antenna inside, handle remote, easy carry.

Long Stand-by Time



Fully charged and standby lasts 5 hours long, enjoy RC fun whenever you want.

Image: Dimensions of the carrying case.

4. INITIAL SETUP

4.1 Binding the Transmitter and Receiver

To establish communication between your T8S transmitter and R8EF receiver, they must be bound. Refer to the specific binding instructions provided with your R8EF receiver for detailed steps. Generally, this involves powering on the receiver in binding mode and then

the transmitter.

4.2 App Connection and Setup

The T8S can be easily configured and updated using the dedicated Radiolink app on iOS/Android devices or via a USB cable connection to a computer. This allows for advanced parameter adjustments and firmware updates.

- **Wireless Connection:** Connect wirelessly to the iOS/Android app for convenient setup.
- **USB Connection:** Use the included USB cable to connect the T8S to a computer for setup and firmware updates.

Suitable for Multiple Models



Image: Radiolink App interface for setup and configuration.



Image: Comprehensive overview of APP setup capabilities.

5. OPERATION GUIDE

5.1 Basic Control

The dual sticks provide precise control over your model. The left stick typically controls throttle and rudder (yaw), while the right stick controls aileron (roll) and elevator (pitch), depending on the selected mode (Mode 1-4). Stick mode can be easily switched through the app.

5.2 Advanced Features

The T8S offers a range of advanced features configurable via the app:

- **Dual Rate (D/R):** Adjust the sensitivity of control surfaces.
- **Low Voltage Alarm:** Alerts you when the transmitter battery is low.
- **Signal Alarm (RSSI):** Provides real-time signal strength indication and alerts for weak signals.
- **Fail-safe:** Configures the model's behavior in case of signal loss.
- **EPA (End Point Adjustment):** Sets the maximum travel for each channel.
- **Programmable Mixing Control:** Up to 4 programmable mixes for complex control setups.
- **Throttle Exponent:** Adjusts throttle response curve.
- **Wireless Training Function:** Allows for wireless trainer/student setups.
- **Unlimited Model Storage:** Store configurations for multiple models.
- **Telemetry:** Displays real-time voltage and RSSI data (requires R7FG or R8F receiver).

Switches and Usage Scene

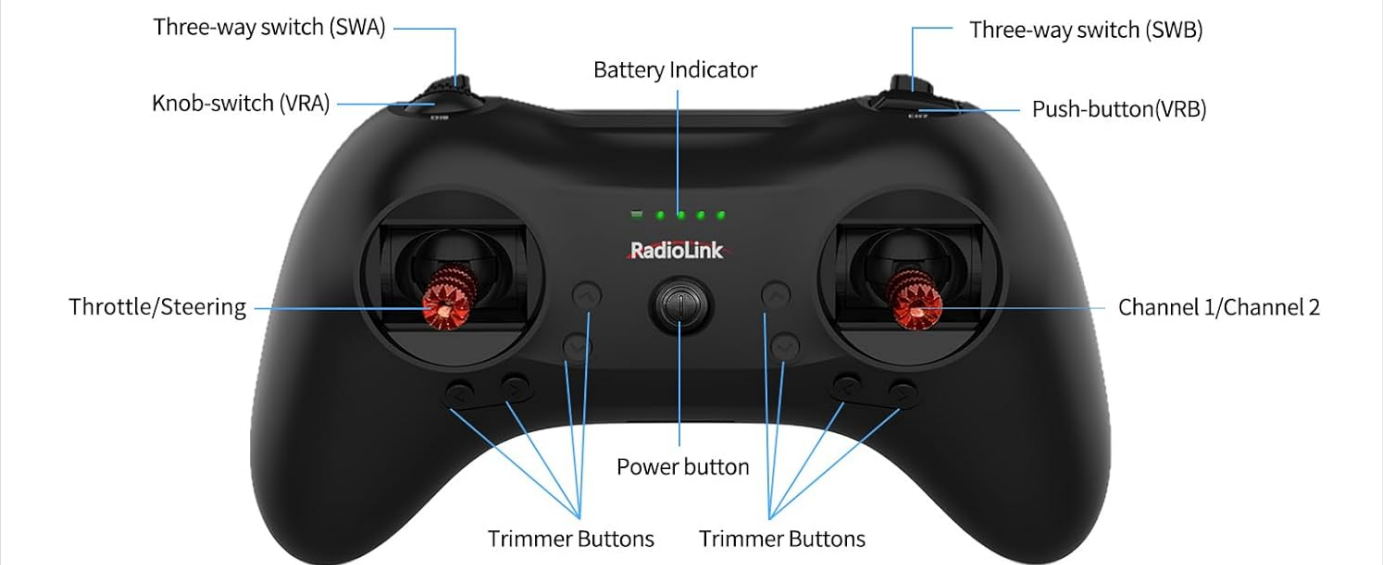


Image: Versatile capabilities of the T8S transmitter.

5.3 Compatibility

The T8S supports PWM, PPM, and S-BUS signals, making it compatible with a wide range of hardware, including:

- **Autopilots:** ArduPilot, PX4
- **Microcontroller Units (MCUs):** Arduino, STM32
- **Single-Board Computers (SBCs):** Raspberry Pi, BeagleBone, Nvidia Jetson, Asus Tinker Board, Le Potato, Odroid, LattePanda

The T8S is suitable for controlling various RC models, including semi-trucks, RC boats, boxing bots, STEM RC projects, RC cars, RC robots, multirotors, and airplanes.

Enjoy the Wireless Flight Simulator*



Image: Examples of models compatible with the T8S.

5.4 Wireless Flight Simulator

The T8S supports wireless flight simulator functionality, allowing you to practice and improve your piloting skills. This feature requires a simulator dongle (sold separately) and a compatible PPM receiver (Radiolink R8EF, R8SM, R8FM, or R8XM).

APP Setups

Easy to Program

Wireless Connection



PC



Android & iOS



- Low Voltage Alarm
- Low Signal Quality Alarm(RSSI)
- 4 Programmable Mixing Controls
- Preset Mixing Control
- Dual Rate & Fail Safe Value Setup
- Expo Setup
- End Point Adjustment
- Telemetry Models' Voltage&RSSI
(Requires Works with R7FG or R8F)
- No-Limited Model Storage

**Android and PC users can download the APP from our website.*

iOS users can search Radiolink in the APP Store.

Image: Using the T8S with a wireless flight simulator.

6. MAINTENANCE

6.1 Charging the Transmitter

The T8S features a built-in 1s 900mAh rechargeable battery. Use the provided USB cable to charge the transmitter. A full charge provides approximately 5 hours of standby time.

6.2 General Care

- Keep the transmitter and receiver clean and free from dust and debris.
- Avoid exposing the devices to extreme temperatures, humidity, or direct sunlight.
- Store the transmitter in its carrying case when not in use to prevent damage.

7. TROUBLESHOOTING COMMON ISSUES

This section addresses common issues you might encounter with your Radiolink T8S system.

Issue	Possible Cause	Solution
Low Voltage Alarm	Transmitter battery is low.	Recharge the transmitter battery using the provided USB cable.
Signal Alarm (RSSI)	Weak signal between transmitter and receiver.	Ensure the model is within the control range. Check for obstructions or interference. Verify receiver antenna placement.
No Response from Model	Transmitter and receiver not bound, or receiver not powered.	Perform the binding procedure. Ensure the receiver is correctly powered and connected to the model's components.
App Connection Issues	Bluetooth/USB connection problem, or app not updated.	Ensure Bluetooth is enabled on your device. Try reconnecting the USB cable. Update the Radiolink app to the latest version.

8. TECHNICAL SPECIFICATIONS

Feature	Specification
Model Number	T8S
Brand	Radiolink
ASIN	B0CTSHBDLC
Color	Black
Special Feature	Compact
Max Number of Supported Devices	1
Compatible Devices	Radiolink T8S Transmitter
Date First Available	February 2, 2024

9. WARRANTY AND CUSTOMER SUPPORT

Radiolink products are manufactured to high-quality standards. For specific warranty information, please refer to the documentation included with your product or visit the official Radiolink website.

For technical support, troubleshooting assistance, or any inquiries regarding your T8S system, please contact Radiolink customer support through their official channels. You can find more information and support resources by visiting the [Radiolink Store on Amazon](#) or their official website.