Radiolink AT10II

Radiolink AT10II 12 Channels RC Transmitter User Manual

Brand: Radiolink | Model: AT10II

Product Overview

The Radiolink AT10II is a versatile 12-channel RC transmitter designed for a wide range of remote-controlled vehicles, including airplanes, FPV racing drones, quads, helicopters, cars, and boats. It features advanced DSSS&FHSS communication technology for stable and long-range signal transmission. The transmitter provides real-time telemetry data, customizable controls, and a user-friendly interface to enhance your RC experience.

Image: Front view of the Radiolink AT10II transmitter with the R12DS receiver and PRM-01 voltage telemetry module.

Key Features

- **Excellent Anti-interference:** DSSS&FHSS communication technology and 7dBi high gain antenna provide stable transmission up to 2.5 miles (4km).
- **Real-time Information:** Monitor airplane voltage on the AT10II screen with the included PRM-01 module. With PRM-03 (sold separately) and compatible flight controllers, access telemetry for battery voltage, speed, altitude, RSSI, distance, and more.
- **Comprehensive Functions:** Includes 12 channels, RSSI telemetry, Dual/Triple Rates, Throttle Lock, Fail-safe Setting, End Point Adjustment (EPA), Switch Customization, and Channels Mix Control.
- **User-Friendly Interface:** Supports basic and advanced menus for intuitive navigation and easy binding without complex radio settings.
- **Safety Reminders:** Features Signal Strength Indicator (RSSI) Alerts, low voltage alarm, and failsafe protection with audible and visual warnings on the 3.5" LCD screen.
- **Customizable Switches:** Equipped with 3 VR switches, 3 three-way position switches, 4 two-way position switches, and 1 reset trainer switch. All 12 channels are customizable.
- **Wide Compatibility:** Compatible with R12DS, R12DSM, R12DSE, R9DS, R6DS, and R6DSM receivers. Stores up to 15 models for quick switching between helicopters, quadcopters, fixed-wing aircraft, gliders, cars, BoxBots, and boats.

Image: Visual representation of the key features including 12 channels, 15 models storage, voltage telemetry, long-range control, programmable mix control, and Crossfire module support.

What's Included

- 1x AT10II transmitter
- 1x R12DS Receiver
- 1x PRM-01 Voltage Telemetry Module & Cable
- 1x Strap + 1x Throttle Self-return Accessory
- 1x Quick Start Guide + 1x Sticker

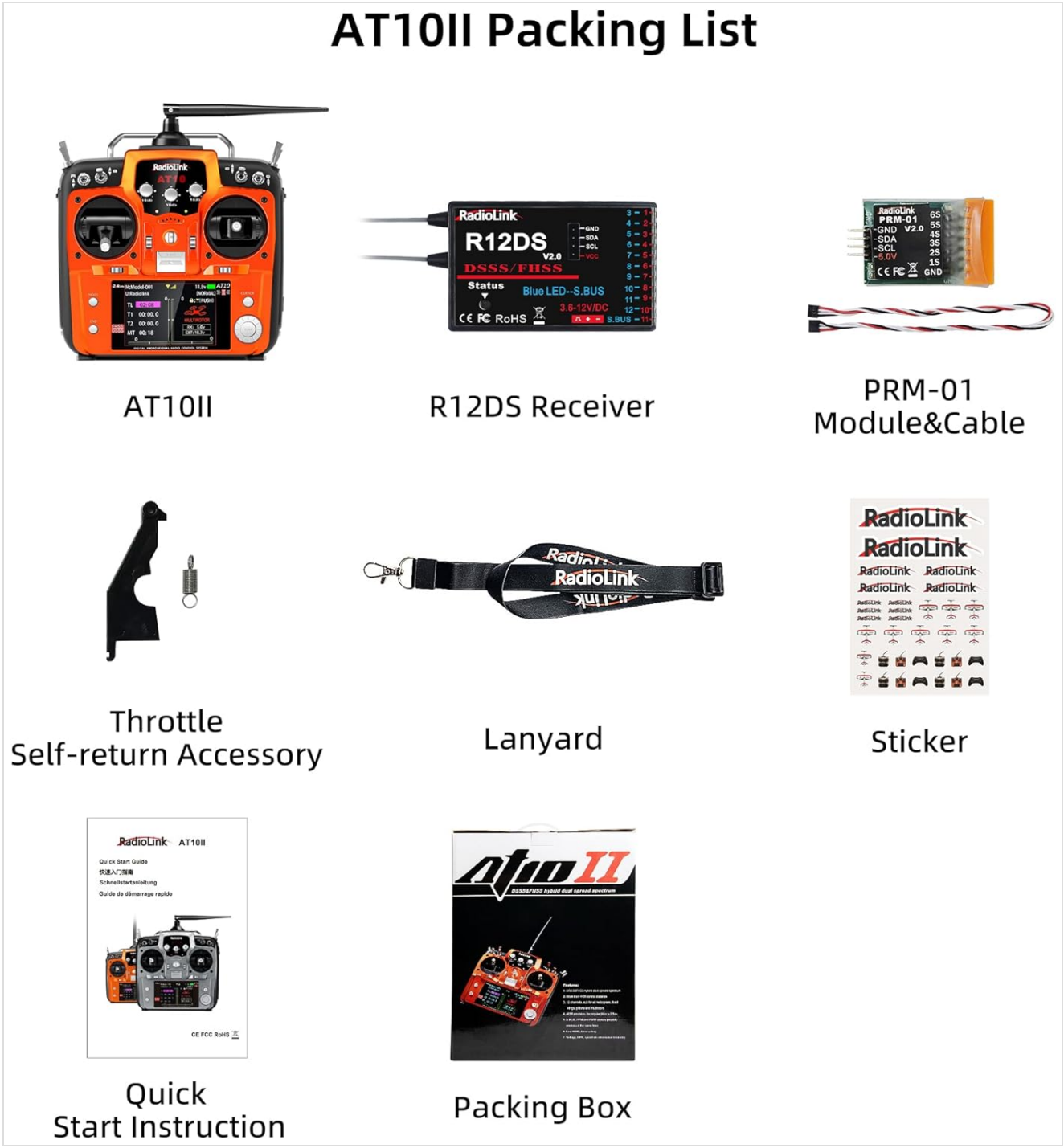

Image: All components included in the Radiolink AT10II package, laid out for clear viewing.

Setup Guide

1. Initial Setup and Unboxing

Carefully unbox your Radiolink AT10II transmitter and all included accessories. Familiarize yourself with the components listed in the 'What's Included' section.

Video: An unboxing and overview of the Radiolink AT10II 12 Channels RC Transmitter, showing its components and initial appearance.

2. Battery Installation

The AT10II transmitter requires 8 AA batteries (not included) or a compatible 2S-4S LiPo battery. Ensure correct polarity when inserting AA batteries into the included holder. For LiPo batteries, connect to the standard JST port inside the battery compartment. The transmitter features reverse polarity input protection.

Image: Rear view of the Radiolink AT10II transmitter, showing the battery compartment and connection ports.

3. Binding the Receiver

To establish communication between the transmitter and receiver (R12DS), follow the binding procedure. Power on the transmitter and ensure the throttle stick is at its lowest position. If the signal tower icon is not present on the screen, binding is required. Press and hold the binding button on the R12DS receiver for 1 second until the light stops blinking, and the signal tower appears on the transmitter screen.

Video: Detailed instructions on how to bind a 10-channel receiver with the 12-channel AT10II transmitter, including necessary settings adjustments.

4. Telemetry Module Connection (PRM-01)

For real-time voltage monitoring, connect the PRM-01 module. Connect one end of the PRM-01 module to the telemetry port of the R12DS receiver. Connect the other end of the PRM-01 module to your airplane's battery. Once connected, the battery voltage will appear on the AT10II screen.

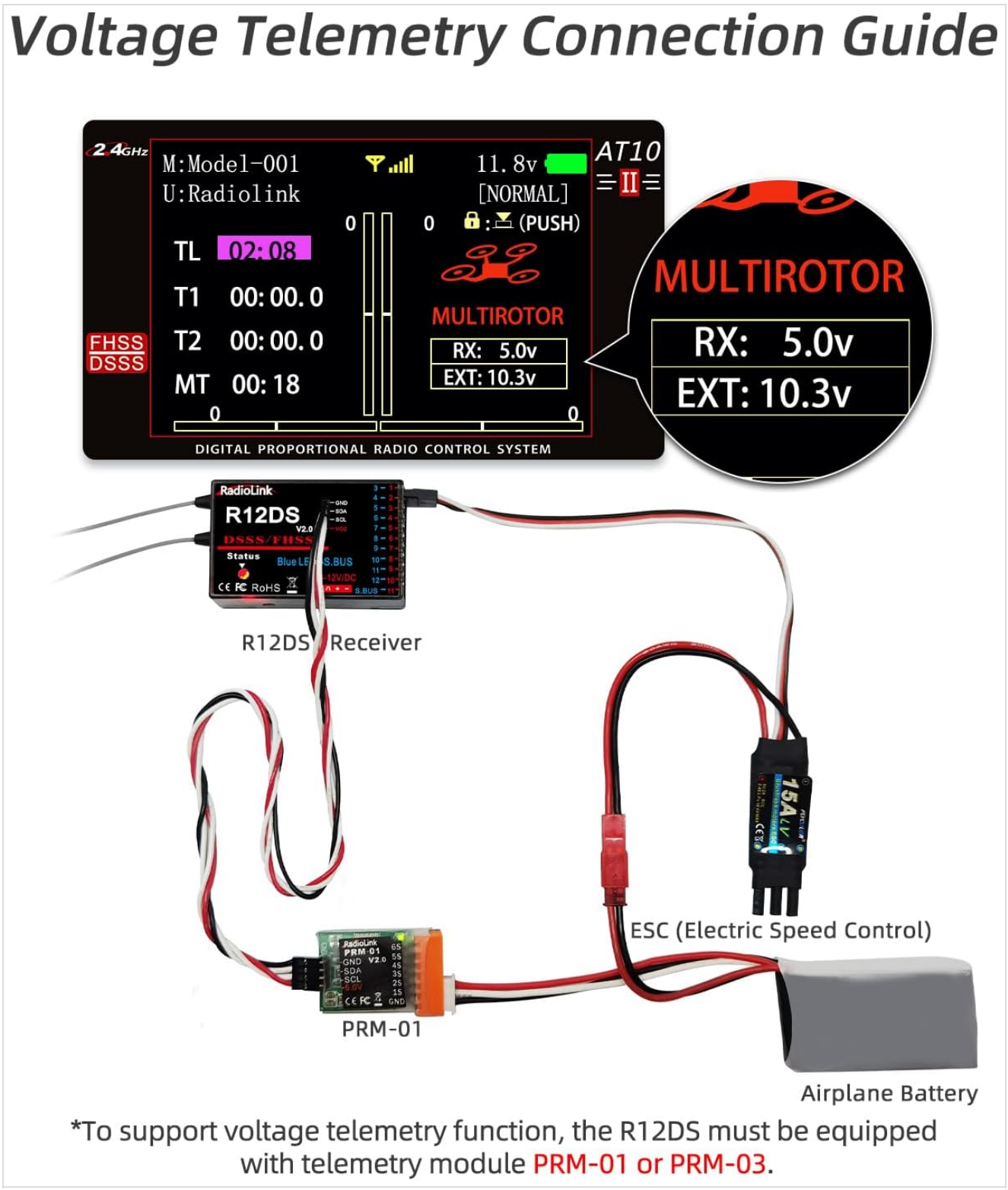

Image: Diagram illustrating how to connect the PRM-01 voltage telemetry module to the R12DS receiver and the airplane battery.

Video: A step-by-step guide on how to monitor an airplane's battery voltage directly on the Radiolink AT10II screen using the PRM-01 module.

Operating Instructions

1. Throttle Mode Adjustment

The AT10II supports changing the throttle stick from left (Mode 2) to right (Mode 1) or setting dual-stick back to center. This allows for flexible control based on user preference and aircraft type.

Image: Visual guide on how to adjust the throttle stick position between Left Throttle (Mode 2), Dual-stick Back to Center, and Right Throttle (Mode 1).

Video: Demonstrates how to convert the AT10II's left stick throttle (Mode 2) to a right stick throttle (Mode 1) for different control preferences.

2. Wireless Training Function

The AT10II supports wireless training, allowing a student transmitter to connect to a trainer transmitter for guided flight practice. This feature is ideal for beginners learning to fly RC models.

Video: Explains how the wireless training function works on the Radiolink Transmitter, enabling a student to learn from a trainer.

3. Simulator Compatibility

The AT10II can be used with FPV drone simulators for practice. Connect the transmitter to your computer via the USB port (for data transfer, not charging) and configure it with your preferred simulator software.

Video: Short demonstration of starting an FPV drone simulator using the Radiolink AT10II transmitter for practice.

4. Drone Operation

The AT10II is fully capable of controlling drones, offering precise control and telemetry feedback essential for FPV

flying and aerial maneuvers.

Video: Shows the Radiolink AT10II transmitter being used to control a drone, highlighting its responsiveness and suitability for drone applications.

Maintenance

To ensure the longevity and optimal performance of your Radiolink AT10II transmitter, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the transmitter's exterior. Avoid using harsh chemicals or solvents.
- **Storage:** Store the transmitter in a cool, dry place away from direct sunlight, extreme temperatures, and high humidity. Remove batteries if storing for extended periods to prevent leakage.
- **Gimbal Care:** Keep the gimbals free from dust and debris. Avoid applying excessive force to the sticks.
- **Antenna:** Handle the antenna with care to prevent damage. Ensure it is properly extended during operation for optimal signal.

Troubleshooting Common Issues

If you encounter issues with your Radiolink AT10II, refer to the following common troubleshooting steps:

- **No Power:** Check battery installation and ensure batteries are fully charged. Verify the battery type is compatible (8 AA or 2S-4S LiPo).
- **No Signal/Binding Issues:** Ensure the receiver is correctly bound to the transmitter. Re-perform the binding procedure if necessary. Check for any obstructions or excessive distance between the transmitter and receiver.
- **Unresponsive Controls:** Verify that the receiver is powered and properly connected to the servos/ESCs. Check the servo travel display on the transmitter to ensure channels are responding correctly.
- **Telemetry Data Missing:** Ensure the PRM-01 (or PRM-03) module is correctly connected to both the receiver and the battery. Check module connections for looseness.
- **Alarms:** Pay attention to RSSI and low voltage alarms. Address the underlying issue (e.g., move closer, charge battery) immediately.

For more detailed troubleshooting and FAQs, please refer to the official User Guide (PDF) or contact Radiolink customer support.

Technical Specifications

Feature	Detail
Brand	Radiolink
Model Number	AT10II
Control Type	Remote Control
Connectivity Technology	DSSS&FHSS
Channels	12
Maximum Range	2.5 miles (4km) in air

Item Weight	2.09 pounds (0.95 kg)
Product Dimensions	7.1"L x 3.7"W x 8.7"H
Battery Cell Composition	Lithium (compatible with 2S-4S LiPo)
Batteries Required	8 AA batteries (not included)
Recommended Age	14 years and up

Warranty and Support

Radiolink products typically come with a manufacturer's warranty covering defects in materials and workmanship. For specific warranty terms and conditions, please refer to the official product documentation or contact Radiolink customer support directly.

Customer Support

For technical assistance, troubleshooting, or any product-related inquiries, please visit theRadiolink Store on Amazon or refer to the comprehensiveUser Guide (PDF) for detailed instructions and FAQs.