

RADIOMASTER TX16S MKII V4.0

RadioMaster TX16S MKII V4.0 16CH 2.4G Hall Gimbals ELRS 4in1 Transmitter Remote Control Instruction Manual

Brand: RADIOMASTER | Model: TX16S MKII V4.0

PRODUCT OVERVIEW

The RadioMaster TX16S Mark II is an advanced open-source radio controller designed for remote control enthusiasts. It features upgraded V4.0 Hall Gimbals with 4 precision bearings for enhanced feel and centering. The redesigned plastics improve fit, finish, and durability. It offers an optimized power supply with reverse polarity protection and up to 2.2 amps of charging via its USB-C port. The 4.3-inch IPS color display provides intuitive programming with touch panel precision, and a DIY accessory socket is included for customization.

PRODUCT COMPONENTS

The RadioMaster TX16S MKII V4.0 package includes the following items:

- 1 * TX16S Mark II Radio Controller
- 1 * 18650 Tray (for battery installation)
- 1 * USB-C Cable (for charging and data transfer)
- 1 * Screen Protector
- 1 pair of flat grips (for ergonomic customization)

Transmitter Layout



Figure 1: Labeled diagram of the RadioMaster TX16S MKII V4.0 transmitter, showing the antenna, handle, S1/S2 dials, switches (SF, SB, SA, SH, SC, SD), LS/RS slider pots, gimbals, power LED, power button, lanyard loop, T1-T6 trim buttons, SYS button, RTN button, PAGE> button, PAGE< button, TELE button, menu wheel, and 4.3" color screen.

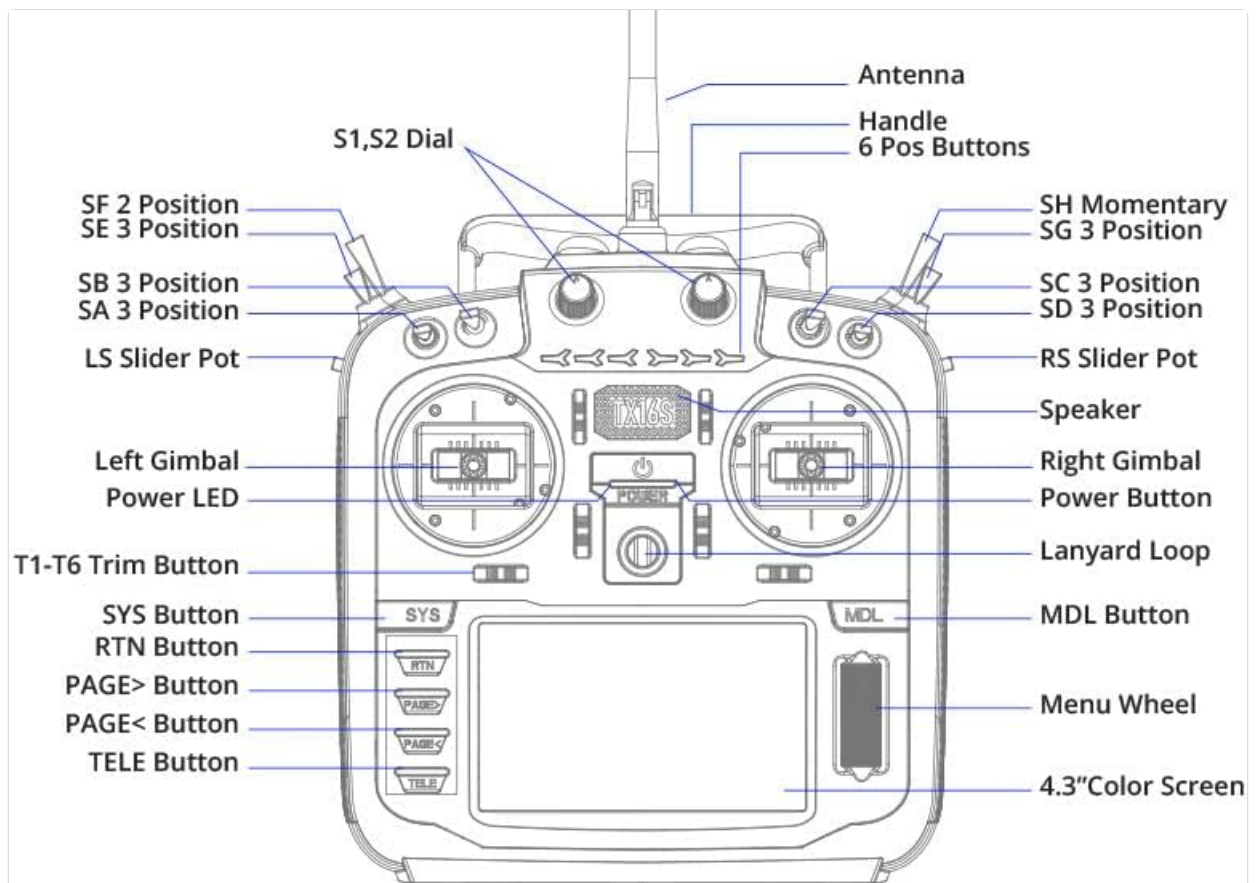


Figure 2: Front view of the RadioMaster TX16S MKII V4.0 transmitter, highlighting the gimbals, screen, and control buttons.



Figure 3: Rear view of the RadioMaster TX16S MKII V4.0 transmitter, showing the battery compartment and handle.



Figure 4: Side view of the RadioMaster TX16S MKII V4.0 transmitter, detailing the UART port, Charging Port (USB-C), and SD Card Slot.

SETUP INSTRUCTIONS

1. Battery Installation

The TX16S MKII V4.0 supports 18650 batteries. Ensure correct polarity when inserting batteries into the provided tray. Connect the battery to the internal connector within the battery compartment.

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Video 1: Demonstrates the installation of the battery into the RadioMaster TX16S transmitter. The video shows the battery being connected and placed into the compartment.

2. Lanyard Attachment

For added security and comfort during operation, attach a lanyard to the designated loop on the transmitter.

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Video 2: Illustrates how to attach a lanyard neck strap to the RadioMaster TX16S transmitter for secure handling.

3. Initial Power-On and Configuration

Press and hold the power button to turn on the transmitter. The 4.3-inch IPS color display will show the operating system (EdgeTX or OpenTX). Follow on-screen prompts for initial setup, including throttle calibration if a "Throttle Warning" appears. The touch panel allows for intuitive navigation through menus.

OPERATING INSTRUCTIONS

The TX16S MKII V4.0 is a versatile remote control supporting both EdgeTX and OpenTX firmware, offering extensive customization and compatibility with various protocols (ELRS or 4in1 module versions). Familiarize yourself with the

gimbals, switches, and trim buttons for precise control of your models.

General Operation Overview

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Video 3: Provides a general overview of the RadioMaster TX16S MKII V4.0 16CH Transmitter, showcasing its features and basic functionality.

Gimbal Adjustments

The V4.0 Hall Gimbals are adjustable without disassembly. You can fine-tune the stick travel (minimum 38°, maximum 54°), horizontal axis tension, vertical axis tension, and gimbal mode (self-centering for throttle/elevator) to suit your preference. Refer to the labeled diagram for specific adjustment points.



Figure 5: Detailed diagram illustrating the adjustment points for the V4.0 Hall Gimbals, including stick travel, axis tension, and gimbal mode settings.

Using EdgeTX Companion Software

The TX16S MKII V4.0 supports EdgeTX Companion PC software, allowing you to program all your model and radio settings from your computer. Connect the transmitter to your PC using the USB-C cable for firmware updates, model management, and configuration.



Figure 6: The EdgeTX Companion software interface on a PC, demonstrating its use for managing transmitter settings and models.

MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the transmitter. Avoid using harsh chemicals or abrasive materials.
- **Storage:** Store the transmitter in a cool, dry place away from direct sunlight and extreme temperatures. Remove batteries if storing for extended periods.
- **Firmware Updates:** Regularly check for and install the latest firmware updates for EdgeTX or OpenTX to ensure optimal performance and access to new features. Use the USB-C port and EdgeTX Companion software for updates.
- **Battery Care:** Follow the manufacturer's guidelines for charging and discharging your 18650 batteries to prolong their lifespan.

TROUBLESHOOTING

- **"Throttle Warning" on startup:** This indicates the throttle stick is not at its lowest position. Ensure the throttle stick is fully down before powering on or press any key to bypass the warning.
- **Difficulty binding to receiver:** Verify that the transmitter's internal module (ELRS or 4in1) is set to the correct protocol for your receiver. Ensure both the transmitter and receiver are in binding mode. Consult the receiver's manual for specific binding procedures.
- **Screen visibility issues:** Adjust the screen brightness in the system settings. For outdoor use, higher brightness settings may be required.
- **General operational issues:** Many issues can be resolved by ensuring the transmitter's firmware (EdgeTX/OpenTX) is up to date. Refer to the official Radiomaster website or EdgeTX/OpenTX documentation for detailed guides and community support.

SPECIFICATIONS

Feature	Detail
Product Dimensions	8 x 6 x 4 inches
Manufacturer Recommended Age	18 years and up
Gimbals	V4.0 Hall Gimbals with 4 precision bearings
Display	4.3" IPS Color Display with touch panel
Charging	USB-C, up to 2.2 amps, reverse polarity protection
Firmware Support	EdgeTX, OpenTX
Module Support	Internal ELRS or 4in1 (variant dependent), External JR module bay

SAFETY INFORMATION

Please refer to the instruction manual before use. Always operate your remote control and models in a safe and responsible manner. Ensure all connections are secure and batteries are properly charged before each use. Keep the device away from water and extreme conditions.

WARRANTY AND SUPPORT

For warranty information and technical support, please visit the official RadioMaster website or contact your retailer. Keep your proof of purchase for any warranty claims. Online resources and community forums for EdgeTX and OpenTX also provide valuable support and troubleshooting tips.

