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- › [RADIOMASTER](#) /
- › [RadioMaster TX16S MKII V4.0 ELRS Transmitter Instruction Manual](#)

## RADIOMASTER TX16S MKII V4.0

# RadioMaster TX16S MKII V4.0 ELRS Transmitter

## INSTRUCTION MANUAL

### Introduction

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This manual provides essential information for the safe and effective use of your RadioMaster TX16S MKII V4.0 ELRS 16-channel 2.4G remote control transmitter. Please read this manual thoroughly before operating the device to ensure proper setup, operation, and maintenance. This transmitter is designed for use with various remote-controlled models and supports both EdgeTX and OpenTX firmware.



Front view of the RadioMaster TX16S MKII V4.0 ELRS remote control transmitter.

## Product Features and Components

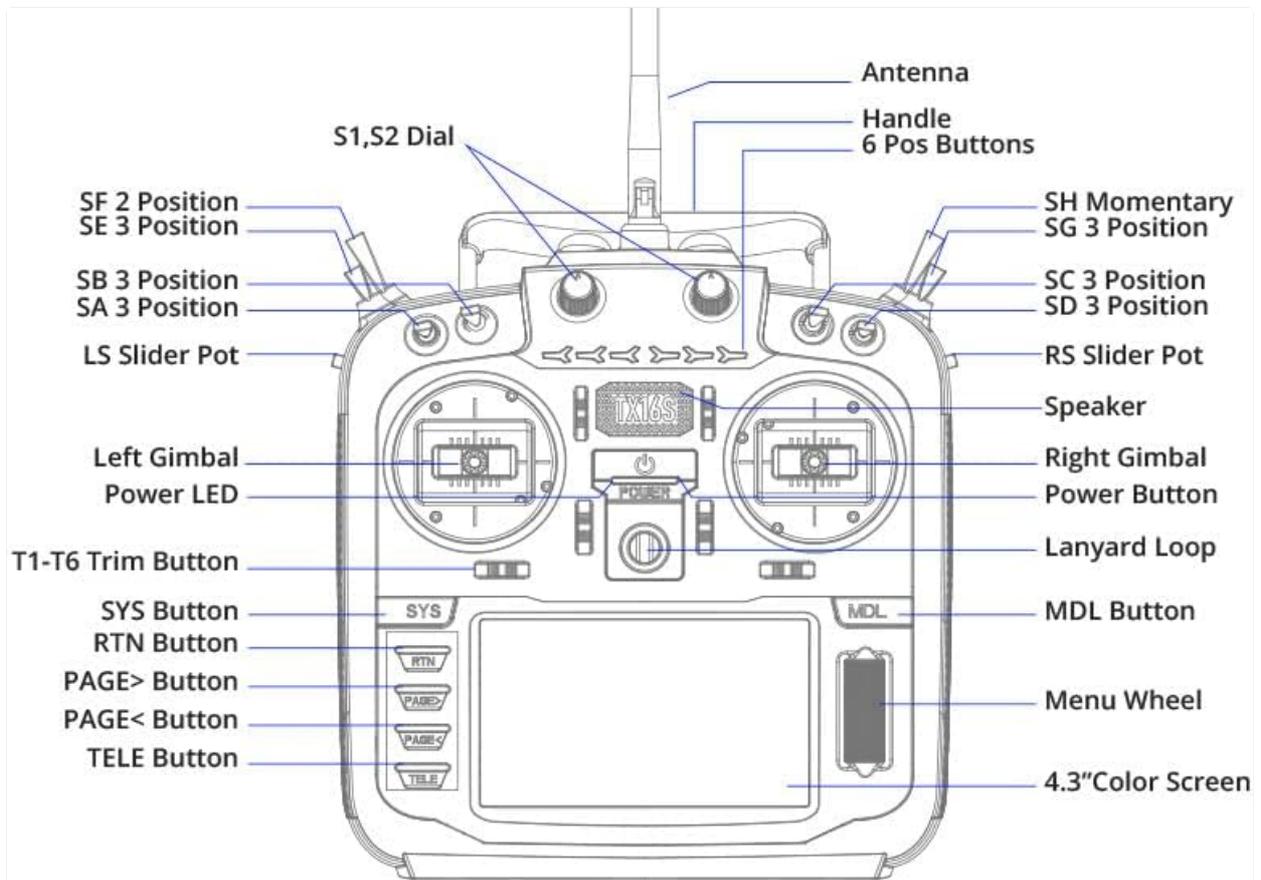
The RadioMaster TX16S MKII V4.0 ELRS transmitter incorporates several advanced features and design improvements:

- **V4.0 Hall Gimbals:** Equipped with 4 precision bearings for enhanced feel and accurate centering.
- **Optimized Power Supply:** Features reverse polarity protection and supports up to 2.2 amps of charging via the USB-C port.
- **4.3-inch IPS Color Display:** Provides a clear interface for programming with touch panel functionality.
- **Improved Ergonomics:** Redesigned plastics for better fit and finish, including improved S1/S2 knobs with center detents and LS/RS sliders with center detents.
- **External Module Bay:** Compatible with various external modules, such as TBS Crossfire.
- **Connectivity:** Includes a new 3.5mm audio jack, USB-C data port, TRS 3.5mm trainer socket, UART port, and SD card slot.
- **Battery Compartment:** Features an easily removable battery cover and includes an 18650 tray.



The TX16S MKII transmitter shown with its retail packaging, USB-C cable, screen protector, and grip options.

## Control Layout



Detailed diagram illustrating the location and function of all buttons, switches, gimbals, and ports on the TX16S MKII transmitter.

## Key Features Visualized



Improved S1/S2 knobs with center detents and the responsive 4.3-inch IPS color touch display for programming.



Redesigned LS/RS sliders, featuring center detents for precise control.



View of the side and bottom features, including the 3.5mm headphone audio jack, the easily removable battery cover, and the DIY accessory socket.



Rear view showing the external module bay, compatible with various modules such as TBS Crossfire, expanding the transmitter's capabilities.



Image detailing the various connectivity options: USB data port, TRS 3.5mm trainer socket, UART port, dedicated charging port, and SD card slot.

## Initial Setup

### 1. Battery Installation and Charging

1. Open the battery compartment cover on the back of the transmitter.
2. Insert 18650 batteries into the provided tray, ensuring correct polarity.
3. Close the battery compartment cover securely.
4. Connect the transmitter to a USB power source using the supplied USB-C cable for charging. The USB-C port supports up to 2.2 amps charging.

### 2. Gimbal Adjustment

The V4.0 Hall Gimbals offer adjustable settings for stick travel, tension, and mode. Refer to the diagram below for adjustment points:



## 1/2 STICK TRAVEL LIMITER

Turn clockwise to decrease travel, Turn counterclockwise to increase travel

## 3 HORIZONTAL AXIS TENSIONER (LEFT-RIGHT)

Turn clockwise to increase stick tension, Turn counterclockwise to decrease stick tension

## 4 GIMBAL MODE SETTING

Turn clockwise to disable self-centering (Throttle), Turn counterclockwise to enable self-centering (Elevator)

## 5 VERTICAL AXIS TENSIONER

(Up-Down) Turn clockwise to increase stick tension, Turn counterclockwise to decrease stick tension

Instructions for adjusting stick travel, horizontal axis tension, vertical axis tension, and gimbal mode (self-centering) for the TX16S MKII gimbals.

- **Stick Travel Limiter (1/2):** Turn clockwise to decrease travel, counter-clockwise to increase travel.
- **Horizontal Axis Tensioner (3):** Turn clockwise to increase stick tension, counter-clockwise to decrease stick tension.
- **Gimbal Mode Setting (4):** Turn clockwise to disable self-centering (Throttle), counter-clockwise to enable self-centering (Elevator).
- **Vertical Axis Tensioner (5):** Turn clockwise to increase stick tension, counter-clockwise to decrease stick tension.

### 3. Firmware Update (Recommended)

It is recommended to update your transmitter to the latest EdgeTX or OpenTX firmware. Visit the official RadioMaster website or the EdgeTX/OpenTX project websites for detailed instructions and firmware downloads. This ensures optimal performance and access to the latest features.

## Operating Instructions

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### 1. Power On/Off

- **To Power On:** Press and hold the power button until the screen illuminates.
- **To Power Off:** Press and hold the power button until the shutdown prompt appears, then confirm.

### 2. Navigation and Programming

- Use the 4.3-inch IPS color touch display for intuitive menu navigation and programming.
- The Menu Wheel (located on the right side) can also be used to scroll through options and make selections.
- The SYS, RTN, PAGE<, PAGE>, and TELE buttons provide quick access to system settings, return to previous screens, page navigation, and telemetry data respectively.

### 3. Model Binding

The TX16S MKII ELRS version is designed to work with ELRS (ExpressLRS) receivers. For binding instructions, refer to the specific ELRS documentation and the EdgeTX/OpenTX manual for your transmitter's firmware version. If you have the 4in1 version or use an external module, consult the relevant module's documentation for binding procedures.

## Maintenance

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- **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 and extreme temperatures. Remove batteries if storing for extended periods.
- **Firmware:** Regularly check for and install firmware updates to ensure optimal performance and security.
- **Gimbal Care:** Keep gimbals free from dust and debris. Avoid applying excessive force.

## Troubleshooting

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- **Transmitter Not Powering On:** Ensure batteries are correctly installed and fully charged. Check the battery compartment for proper contact.
- **Binding Issues:** Verify that the transmitter and receiver are set to the same protocol (e.g., ELRS) and frequency. Ensure both devices are in binding mode. Consult the specific binding instructions for your receiver and firmware.
- **Screen Unresponsive:** Try restarting the transmitter. If the issue persists, a firmware re-flash might be necessary.
- **Gimbal Calibration:** If stick inputs are erratic, perform a gimbal calibration through the system settings menu.
- **General Issues:** For complex issues, refer to the comprehensive online documentation for EdgeTX or OpenTX, or visit the RadioMaster support forums and community resources. Many common problems have documented solutions.

## Specifications

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Feature	Detail
Model	TX16S MKII V4.0
Gimbals	V4.0 Hall Gimbals with 4 precision bearings
Channels	16CH
Frequency	2.4G
RF System	ELRS (ExpressLRS) or 4in1 (Multi-protocol)
Firmware Support	EdgeTX, OpenTX
Display	4.3-inch IPS Color Touch Display
Charging	USB-C, up to 2.2A
Product Dimensions	8 x 6 x 4 inches

Feature	Detail
Manufacturer Recommended Age	18 years and up

## Warranty and Support

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For warranty information, please refer to the documentation provided with your purchase or visit the official RadioMaster website. For technical support, firmware updates, and additional resources, please visit the manufacturer's official support channels or community forums. Keep your proof of purchase for any warranty claims.