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RotorLogic TX16S

RadioMaster TX16S MKII Carbon Fiber Black Remote Control Radio Transmitter User Manual

Model: TX16S

Introduction

The RadioMaster TX16S Mark II Carbon Fiber Edition is a versatile 2.4GHz 16-channel radio transmitter designed for remote control applications. It features an exclusive carbon fiber theme faceplate, V4.0 Hall gimbals, and an internal multi-protocol module (4-in-1 or ELRS). This manual provides essential information for the setup, operation, and maintenance of your TX16S MKII transmitter.

Key features include a 4.3-inch TFT full-color touch display, improved S1/S2 knobs with center detents, a newly designed removable battery cover, and raised grips for enhanced ergonomics. The TX16S Mark II also incorporates a 3.5mm audio headphone jack and built-in dual speakers for comprehensive audio feedback.

Safety Information

Important Safety Precaution:

- Ensure batteries are installed with the correct polarity. Incorrect polarity will damage your radio transmitter.
- Always operate your radio transmitter in a safe environment, away from obstacles and other people.
- Regularly check the battery level before and during operation.
- Keep the device away from water and excessive moisture.
- Do not attempt to disassemble or modify the transmitter beyond the instructions provided in this manual.

What's in the Box



Image: Contents of the RadioMaster TX16S MKII package.

Upon opening the package, verify that all the following items are present:

- TX16S MKII Remote Controller
- Battery Tray (18650 Cells Sold Separately)
- USB Cable
- Grips
- User Manual and Accessory

If any items are missing or damaged, please contact your retailer or RadioMaster support.

Setup

1. Battery Installation

The TX16S MKII uses 18650 Li-ion cells (not included). Locate the battery compartment on the rear of the transmitter. Open the removable battery cover. Insert the 18650 cells into the battery tray, ensuring correct polarity as indicated inside the compartment. Close the battery cover securely.



Image: Rear view of the TX16S MKII, highlighting the battery compartment.

2. Charging the Battery

Connect the supplied USB-C cable to the USB-C port on the transmitter and to a suitable USB power source. The optimized charge IC allows for up to 2.2A internal USB-C charge current. The charging status will be indicated on the display.

3. Initial Power On

Press and hold the power button located on the front of the transmitter until the display illuminates. The transmitter will boot into the EdgeTX firmware. Follow any on-screen prompts for initial setup.



Image: Front view of the TX16S MKII, showing the power button and display.

4. Gimbal Adjustment

The V4.0 Hall gimbals feature externally adjustable stick travel, self-centering, and stick tension. Use the provided tools to adjust the gimbals to your preferred feel. Refer to the detailed instructions in the EdgeTX manual for specific adjustment procedures.



Image: Angled view of the TX16S MKII, showing the gimbals.

5. SD Card

The transmitter comes with a 256MB SD card by default, supporting up to 8GB. This card stores model settings, sounds, and firmware files. Ensure the SD card is properly inserted before powering on the device.

Operating the Transmitter

1. Display and Navigation

The 4.3-inch TFT full-color touch display provides a clear interface for model setup and operation. Navigate through menus using the touch screen or the scroll wheel and buttons. Adjustable brightness ensures visibility in various lighting conditions.

2. Firmware and Protocols

The TX16S MKII runs on EdgeTX radio firmware. It features an internal 4-in-1 multi-protocol module (CC2500, CYRF6936, A7105, NRF2401) or an internal ELRS (SX1280) module, depending on your specific model. This allows compatibility with a wide range of receivers. The transmitter supports up to 16 channels, depending on the receiver used.

3. External Module Bay

The JR compatible module bay on the rear of the transmitter supports external modules, such as Team Black TBS MicroTX modules in CRSF mode. The internal 4-in-1 multi-protocol module allows seamless switching between internal RF and Crossfire via software, eliminating the need for physical module swapping.



Image: Rear angled view of the TX16S MKII, indicating the external module bay.

4. Audio Features

The TX16S MKII includes a 3.5mm audio headphone jack and built-in dual speakers, providing versatile audio options for alerts, voice prompts, and telemetry feedback.

5. Binding to Receivers

The process for binding your TX16S MKII to a receiver varies depending on the receiver's protocol. Generally, this involves putting the receiver into bind mode and then initiating the bind process from the transmitter's menu. Consult the specific receiver's manual and the EdgeTX documentation for detailed binding instructions for your chosen protocol.

Maintenance

1. Cleaning

To clean the transmitter, use a soft, dry cloth. For stubborn dirt, a slightly damp cloth can be used, but ensure no moisture enters the device. Avoid using harsh chemicals or abrasive cleaners.

2. Storage

Store the TX16S MKII in a cool, dry place, away from direct sunlight and extreme temperatures. If storing for extended periods, ensure the battery is charged to a storage voltage (typically around 3.8V per cell) to prolong battery life.

3. Firmware Upgrades

The transmitter supports firmware upgrades via USB-C online or SD card offline methods. Regularly check the official EdgeTX and RadioMaster websites for the latest firmware versions to ensure optimal performance and access to new features. Follow the provided instructions carefully during the upgrade process.

Troubleshooting

This section addresses common issues you might encounter with your TX16S MKII transmitter. Due to the advanced nature and customization options of EdgeTX, many solutions involve navigating the software menus.

Common Issues and Solutions:

- **Transmitter not powering on:**
  - Check battery installation and polarity.
  - Ensure batteries are sufficiently charged.
  - Verify the power button is pressed and held correctly.
- **No response from model:**
  - Confirm the transmitter is bound to the receiver.
  - Check the selected model in the transmitter and ensure it matches the model being flown.
  - Verify the correct internal/external RF module is active.
  - Ensure the receiver has power.
- **Gimbal calibration issues:**
  - Perform a gimbal calibration through the EdgeTX system menu.
  - Check for any physical obstructions or damage to the gimbals.
- **Display not working or flickering:**
  - Restart the transmitter.
  - Ensure the battery is adequately charged.

The TX16S MKII, especially with EdgeTX, offers extensive customization. Many users find it beneficial to consult online communities, forums, and video tutorials for in-depth programming and troubleshooting guidance. A significant learning curve may be involved to fully utilize its capabilities.

Specifications

Feature	Detail
Size	287x129x184mm
Weight	750g (without battery)
Transmission Frequency	2.400GHz-2.480GHz
Transmitter Module	Internal 4-in-1 multi-protocol (CC2500 CYRF6936 A7105 NRF2401) OR Internal ELRS (SX1280)
SD Card	256MB by default, 8GB maximum
Antenna Gain	2db (transmit power adjustable)
Working Current	400mA
Working Voltage	6.6-8.4v DC
Radio Firmware	EdgeTX
Module Firmware	Multiprotocol-Module (4IN1) OR ExpressLRS (ELRS)
Channels	Up to 16 channels (depending on the receiver)
Display	4.3-inch TFT full-colour touch display with a resolution of 480 * 272
Gimbal	V4.0 Hall sensor with Aluminium fascia
Module Bay	JR compatible module bay
Upgrade Method	Supports USB-C online / SD card offline upgrade
Product Dimensions	7.24 x 5.08 x 7.24 inches
Item Weight	1.7 pounds
Manufacturer Recommended Age	14 years and up
Water Resistance Level	Not Water Resistant

Warranty and Support

RadioMaster products are designed for reliability and performance. For specific warranty details, please refer to the warranty card included with your product or visit the official RadioMaster website. Warranty terms typically cover manufacturing defects for a specified period from the date of purchase.

For technical support, troubleshooting assistance, or inquiries regarding your TX16S MKII, please contact the retailer from whom you purchased the product or visit the official RadioMaster support channels. Online resources, including firmware updates, manuals, and community forums, are also available to assist you.

Manufacturer: RadioMaster

Brand: RotorLogic

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