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RotorLogic TX16S Mark II MAX

RotorLogic RadioMaster TX16S Mark II MAX Edition Radio Transmitter User Manual

Model: TX16S Mark II MAX

1. Introduction

Thank you for purchasing the RotorLogic RadioMaster TX16S Mark II MAX Edition Radio Transmitter. This advanced 2.4GHz 16-channel radio system is designed for precision control of remote-controlled models, featuring EdgeTX/OpenTX compatibility, ergonomic design, and versatile module support. This manual provides essential information for setup, operation, maintenance, and troubleshooting to ensure optimal performance and longevity of your device.

Please read this manual thoroughly before operating your TX16S Mark II MAX transmitter.

2. What's in the Box

Verify that all items are present in your package:

- 1x TX16S Mark II Radio Transmitter
- 1x Battery Tray (for 18650 cells, **cells are NOT included**)
- 1x USB-C Cable
- 1x Pair of Flat Grips
- 1x Pair of Raised Grips
- 1x User Manual & Accessories

3. Key Features

- **MAX Edition Design:** Carbon fiber-look faceplates, leather grips, and CNC finished components and buttons.
- **Ergonomics:** Newly designed removable battery cover, raised and flat grips for improved comfort, and improved S1/S2 knobs with center detents.
- **Display:** 4.3-inch TFT full-color touch display with 480x272 resolution and adjustable brightness.
- **Audio:** New 3.5mm audio headphone jack and built-in dual speakers.
- **Internal Module:** Available with Internal 4-in-1 multi-protocol module (CC2500 CYRF6936 A7105 NRF2401) or

Internal ELRS (SX1280).

- **External Module Bay:** JR compatible module bay, supporting modules like Team Black Sheep MicroTX in CRSFmode with LUA script.
- **Firmware:** Compatible with EdgeTX and OpenTX, with EdgeTX installed by default (touch screen enabled).
- **Connectivity:** USB-C for online upgrades and SD card for offline upgrades.

4. Setup Guide

4.1 Battery Installation

The TX16S Mark II MAX requires two 18650 Li-ion cells (not included) for operation. Ensure correct polarity when inserting batteries into the provided battery tray.

1. Remove the redesigned removable battery cover on the back of the transmitter.
2. Insert two 18650 cells into the battery tray, observing the polarity markings (+/-).
3. Connect the battery tray to the internal power connector within the battery compartment.
4. Replace the battery cover, ensuring it clicks securely into place.



Image: Close-up view highlighting the redesigned removable battery cover, 3.5mm audio jack, and DIY accessory socket.

4.2 Grip Installation

The transmitter comes with both flat and raised grips for ergonomic customization.

1. Select your preferred grip type (flat or raised).
2. Align the chosen grips with the slots on the sides of the transmitter.
3. Press firmly until the grips are securely attached.



Image: Comparison of raised and flat grip options for the TX16S Mark II MAX.

4.3 Powering On/Off

- **To Power On:** Press and hold the power button until the screen illuminates and the boot-up sequence begins.
- **To Power Off:** Press and hold the power button. A confirmation prompt will appear on the screen. Confirm to shut down the transmitter.

5. Operating Instructions

5.1 Display Navigation

The 4.3-inch IPS color touch display allows for intuitive navigation and model setup.

- **Touch Interface:** Use your finger to tap and swipe through menus and settings.
- **Scroll Wheel/Buttons:** The scroll wheel and surrounding buttons can also be used for navigation, offering an alternative to the touch screen.



Image: View of the 4.3-inch IPS color touch display and improved S1/S2 knobs.

5.2 Gimbals and Switches

The TX16S Mark II MAX features high-precision gimbals (AG01 or V4.0 Hall gimbals) and various switches for controlling your model.

- **Gimbals:** Control primary flight surfaces (e.g., aileron, elevator, rudder, throttle). Calibrate gimbals periodically through the firmware settings for optimal accuracy.
- **S1/S2 Knobs:** Improved with center detents for precise adjustments. These are typically assigned to auxiliary functions.
- **LS/RS Sliders:** Located on the back, these sliders also feature improved center detents for smooth, assignable control.
- **Switches:** Utilize the various 2-position, 3-position, and momentary switches for functions like flight modes, gear, or arming.



Image: Detail of the improved LS/RS slider with center detents.

5.3 Internal and External Modules

Your TX16S Mark II MAX comes with either an internal 4-in-1 multi-protocol module or an internal ELRS module. It also supports external JR-compatible modules.

- **Internal Module Selection:** Configure the active internal module (4-in-1 or ELRS) via the radio's firmware settings.
- **External Module Installation:** Insert compatible JR-style external modules into the module bay on the back of the transmitter.
- **Module Switching:** The EdgeTX firmware allows seamless switching between internal and external RF modules without physical removal.



Image: View of the external module bay, demonstrating compatibility with external modules like TBS Crossfire.

5.4 Firmware (EdgeTX/OpenTX)

The TX16S Mark II MAX ships with EdgeTX firmware installed by default, offering a touch-enabled interface and extensive customization options. For detailed instructions on model setup, binding, and advanced features, refer to the official EdgeTX documentation available online.



Image: Graphic confirming support for both EdgeTX and OpenTX firmware.

6. Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the transmitter's exterior. Avoid abrasive cleaners or solvents. For the screen, use a microfiber cloth specifically designed for electronics.
- **Battery Care:** Store the transmitter with batteries at approximately 3.8V per cell if not used for extended periods. Avoid fully discharging or overcharging Li-ion batteries.
- **Firmware Updates:** Regularly check for firmware updates from the official EdgeTX or OpenTX websites. Updates can be performed via the USB-C port or by using an SD card. Follow official instructions carefully to avoid damaging the device.
- **Storage:** Store the transmitter in a cool, dry place, away from direct sunlight and extreme temperatures.

7. Troubleshooting

Transmitter does not power on:

Ensure batteries are correctly installed with proper polarity and are sufficiently charged. Check the battery tray connection. If using an external power source, verify its functionality.

No signal to receiver:

Verify that the correct internal or external RF module is selected and active in the firmware settings. Ensure the transmitter and receiver are properly bound. Check antenna connection on the transmitter.

Display issues (e.g., unresponsive touch, flickering):

Restart the transmitter. Ensure the screen is clean and free of debris. If the issue persists, consider performing a firmware re-flash or contacting support.

Gimbals or switches not responding:

Check calibration settings in the firmware. Ensure no physical obstructions are present. If a specific component is faulty, it may require professional service.

8. Specifications

Attribute	Detail
Brand	RotorLogic
Model Name	TX16S Mark II MAX
Manufacturer Part Number	HP157-TX16SMKII-MAX-M2
Transmission Frequency	2.400GHz-2.480GHz
Transmitter Module	Internal 4-in-1 (CC2500 CYRF6936 A7105 NRF2401) OR Internal ELRS (SX1280)
Transmitting Power (Internal 4-in-1)	Max 100mw (protocol dependent)
Transmitting Power (Internal ELRS)	Max 250mw (adjustable)
Antenna Gain	2db (transmit power adjustable)
Working Current	400mA
Working Voltage	6.6-8.4v DC

Remote Control Distance	> 2km @ 22dbm
Radio Firmware	EdgeTX (default)
Module Firmware	Multiprotocol-Module (4IN1) OR ExpressLRS (ELRS)
Channels	Up to 16 channels (depending on receiver)
Display	4.3-inch TFT full-color touch display, 480x272 resolution
Module Bay	JR compatible
Upgrade Method	USB-C online / SD card offline
Color	Black
UPC	810020965674

9. Warranty and Support

For warranty information, please refer to the documentation provided with your purchase or contact RotorLogic customer support directly. Keep your proof of purchase for any warranty claims.

For technical support, firmware updates, and additional resources, please visit the official RadioMaster or EdgeTX/OpenTX community websites. These platforms offer extensive guides, forums, and troubleshooting assistance.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

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