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› [RadioMaster TX12 MKII 2.4GHz 16 Channel ELRS/OpenTX/EdgeTX Radio Controller User Manual](#)

RadioMaster TX12 MKII

RadioMaster TX12 MKII 2.4GHz 16 Channel ELRS/OpenTX/EdgeTX Radio Controller User Manual

Model: TX12 MKII (HP157-0006-M2) | Brand: RadioMaster

1. INTRODUCTION

The RadioMaster TX12 MKII is a compact and versatile 2.4GHz 16-channel radio controller designed for various RC applications, including drones. It comes pre-installed with the EdgeTX operating system and supports ExpressLRS (ELRS) and CC2500 RF chips, offering broad compatibility and advanced features. This manual provides essential information for setting up, operating, and maintaining your TX12 MKII radio controller.



Figure 1: Front view of the RadioMaster TX12 MKII Radio Controller.

2. SETUP

2.1 Unboxing and Initial Inspection

Upon receiving your TX12 MKII, carefully unbox all components and inspect for any damage. The package typically includes the TX12 MKII Radio Controller, an antenna, a USB-C cable, a quick start guide, and a sticker. Battery cells are sold separately.



Figure 2: Contents of the RadioMaster TX12 MKII package.

2.2 Battery Installation and Charging

The TX12 MKII requires dual 18650 or 21700 Li-ion cells, or a 2S Lipo battery (up to 74x60x22mm), which are not included. Install the batteries into the designated compartment. The radio supports QC3 USB-C charging. Connect the provided USB-C cable to the USB-C port on the back of the controller and to a compatible power source to charge the batteries.



Figure 4: Precision hall-effect gimbals, adjustable without disassembly (Min. 38°, Max. 54°).

3.3 Display and Navigation

The 128x64 monochrome LCD display provides clear information. Use the navigation buttons (SYS, RTN, PAGE>, PAGE<, TELE) to move through menus and adjust settings within the EdgeTX operating system.

3.4 Binding and Pairing (ELRS Protocol)

The TX12 MKII supports ExpressLRS (ELRS) and CC2500 RF chips. For ELRS binding, ensure your drone has a compatible ELRS receiver. The power-on pairing method is typically used: power on the drone three consecutive times. Observe the receiver light; it should flash twice continuously, indicating it's in pairing mode. Then, on the remote control, switch to ELRS 2.4G protocol (if not already) and initiate the binding process. The remote control may vibrate, and the receiver light will steady upon successful pairing.

Your browser does not support the video tag.

Video 1: Tutorial on how to pair an ELRS drone with a compatible remote control. This demonstrates the power-on pairing method and visual cues for successful binding.

3.5 Simulator Use

The TX12 MKII can be connected to a computer via its USB-C port for use with flight simulators. This allows for practice and skill development without risking actual models. Ensure the simulator software is configured to recognize the controller as a joystick.



Figure 5: USB-C Data Port for simulator connection and charging, alongside the TRS 3.5mm Trainer Socket.

4. MAINTENANCE

4.1 Battery Care

Always use compatible batteries and follow manufacturer guidelines for charging and storage. Avoid overcharging or fully discharging Li-ion/Lipo batteries to prolong their lifespan. Store batteries in a cool, dry place away from direct sunlight.

4.2 Cleaning and Storage

Clean the controller regularly with a soft, dry cloth. Avoid using harsh chemicals or abrasive materials. When not in use, store the controller in a protective case to prevent dust accumulation and physical damage. Ensure the antenna is folded or removed if applicable for compact storage.

5. TROUBLESHOOTING

5.1 Common Issues

- **No Power:** Check battery installation and charge level. Ensure batteries are correctly inserted and fully charged.
- **Binding Failure:** Verify that both the controller and receiver are set to the correct protocol (e.g., ELRS). Ensure the receiver is in pairing mode (often indicated by a specific light pattern after multiple power cycles).
- **Unresponsive Controls:** Calibrate gimbals and switches through the EdgeTX menu. For simulator use, ensure USB drivers are updated and the simulator recognizes the controller.
- **Short Range/Signal Loss:** Ensure the antenna is securely attached and not obstructed. Check for local interference. Update firmware on both the radio and receiver.

5.2 Firmware Updates

Many issues can be resolved by ensuring your TX12 MKII is running the latest firmware. Refer to the official RadioMaster website or EdgeTX documentation for detailed instructions on updating your radio via USB/SD card using EdgeTX Buddy or EdgeTX

Companion software.

6. SPECIFICATIONS

Item	TX12 Mark II Radio
Size	170*159*108mm
Weight	363g (0.8 lbs)
Frequency	2.400GHZ-2.480GHZ
RF Chip	ExpressLRS (ELRS) / CC2500
Working Current	320mA@8.4V (ELRS) / 180mA@8.4V (CC2500)
Voltage Range	6.6-8.4v DC
Radio Firmware	EdgeTX (Transmitter) / ExpressLRS (RF module) / MPM (RF module)
Channels	Up to 16 (depending on the receiver)
Display	128*64 Monochrome LCD display
Gimbal	High precision hall gimbals
External Module	JR/FrSKY/Crossfire compatible
Upgrade Method	USB/SD card & EdgeTX Buddy online or EdgeTX Companion PC software
USB Charging	QC3 USB-C
SD Card	Included
Product Dimensions	7 x 7 x 4 inches
Item Model Number	HP157-0006-M2
Manufacturer	RadioMaster

7. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please contact RadioMaster directly or refer to their official website. Additional protection plans may be available from your retailer.

For further assistance, visit the [RotorLogic Store](#).

8. ADDITIONAL RESOURCES

8.1 Product Overview Video

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Video 2: A brief overview of the RadioMaster TX12 MKII 16CH ELRS EdgeTX Hall Gimbals Radio, highlighting its features and design.



