

RadioMaster HP157-ZOR

RadioMaster Zorro Controller User Manual

Model: HP157-ZOR | Brand: RadioMaster

1. INTRODUCTION

The RadioMaster Zorro Controller is a compact and feature-rich 2.4GHz radio transmitter designed for remote control enthusiasts. It features Hall sensor gimbals for precise control and officially supports OpenTX and EdgeTX firmware, offering extensive customization and flexibility. This manual provides essential information for setting up, operating, and maintaining your Zorro Controller.

2. KEY FEATURES

- Ergonomic design for comfortable handling.
- Large, bright 128x64 monochrome LCD display for clear information.
- Travel-adjustable Hall sensor gimbals for smooth and accurate control.
- Nano size external RF module bay, compatible with modules like TBS Nano Crossfire, Nano Tracer, and IRC Ghost.
- Built-in USB-C charging for convenience.
- USB-C data port for firmware updates and simulator use.
- Rear and top assignable push buttons for custom functions.
- Scroll wheels for easy navigation.
- RadioMaster 7-button menu navigation system.
- Headphone audio output.
- External power source input.
- Official support for OpenTX and EdgeTX firmware.
- Switchable between Mode 1 and Mode 2 without disassembly.

3. PACKAGE CONTENTS

Upon unboxing, please verify that all items are present and in good condition:

- RadioMaster Zorro Controller x 1
- Battery Cell x 1 Pair (2 Lithium Ion batteries)

4. SETUP

4.1. Battery Installation and Charging

The Zorro Controller comes with two Lithium Ion battery cells. Ensure they are properly inserted into the battery compartments located on the rear of the controller. The controller supports built-in USB-C charging.

1. Locate the battery compartments on the back of the controller.
2. Insert the included battery cells, observing the correct polarity.
3. Connect a USB-C cable to the USB-C charging port on the controller and to a suitable USB power source (e.g., computer USB port, USB wall adapter).
4. The charging indicator on the controller will show the charging status.

4.2. Initial Power On and Firmware

The Zorro Controller is compatible with OpenTX and EdgeTX firmware. It is recommended to ensure your controller is running the latest stable firmware version for optimal performance and features.

1. Press and hold the power button (usually located centrally) to turn on the controller.
2. The LCD screen will display the startup sequence.
3. To update firmware, connect the controller to a computer via the USB-C data port. Firmware upgrade can be done via USB or by placing the firmware file on an SD card (SD card not included). Refer to the official OpenTX or EdgeTX documentation for detailed firmware update procedures.

4.3. Mode Switching (Mode 1 / Mode 2)

The Zorro radio supports switching between Mode 1 and Mode 2 without requiring disassembly. The default factory mode is Mode 2.

Refer to the OpenTX/EdgeTX software settings for instructions on how to change the stick mode configuration to match your preference.

5. OPERATING INSTRUCTIONS

5.1. Basic Controls

The Zorro Controller features two main gimbals for primary control (throttle, rudder, elevator, aileron), along with various buttons, switches, and scroll wheels for auxiliary functions and menu navigation.



Figure 1: Front view of the RadioMaster Zorro Controller, showing the gimbal, LCD screen, power button, and various control buttons.

- **Gimbals:** Control the primary flight surfaces of your model.
- **Power Button:** Press and hold to turn the controller on/off.
- **Menu Navigation:** Use the 7-button system and scroll wheels to navigate through the OpenTX/EdgeTX menus on the LCD display.
- **Assignable Buttons/Switches:** Customize the functions of the rear and top buttons/switches via the firmware settings.

5.2. External Module Bay

The Zorro Controller includes a Nano size external RF module bay, allowing compatibility with various third-party modules such as TBS Nano Crossfire, Nano Tracer, and IRC Ghost. This expands the range of protocols and capabilities of your transmitter.



Figure 2: Rear view of the RadioMaster Zorro Controller, highlighting the external module bay and ergonomic grips.



Figure 3: Side view of the RadioMaster Zorro Controller, showing the profile and additional controls.

1. Ensure the controller is powered off before installing or removing an external module.
2. Carefully insert the compatible Nano size module into the external module bay.
3. Power on the controller and configure the external module settings within the OpenTX/EdgeTX firmware.

5.3. Simulator Use

The USB-C data port allows the Zorro Controller to be used as a joystick for flight simulators on a computer. This is an excellent way to practice flying without risking your physical models.

1. Connect the controller to your computer using a USB-C data cable.
2. The controller should be recognized as a USB joystick.
3. Launch your preferred flight simulator and configure the controller inputs within the simulator's settings.

6. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the controller. Avoid using harsh chemicals or abrasive materials.
- **Storage:** Store the controller in a cool, dry place away from direct sunlight and extreme temperatures. If

storing for extended periods, ensure batteries are charged to a storage voltage (around 3.8V per cell) to prolong their lifespan.

- **Gimbal Care:** The Hall sensor gimbals are designed for durability. Avoid applying excessive force or sudden impacts to the gimbals.
- **Firmware Updates:** Regularly check for and install the latest firmware updates from the official OpenTX or EdgeTX websites to benefit from new features, bug fixes, and performance improvements.

7. TROUBLESHOOTING

- **Controller Does Not Power On:**
 - Ensure batteries are correctly installed and charged.
 - Verify the power button is pressed and held sufficiently.
- **No Response from Model:**
 - Confirm the controller is properly bound to the receiver in your model.
 - Check that the correct model profile is selected on the controller.
 - Ensure the internal RF module (4-in-1 Multi-Protocol) or external module is correctly configured and enabled.
- **Gimbal Calibration Issues:**
 - Perform a gimbal calibration through the OpenTX/EdgeTX system menu.
 - Ensure gimbals move freely without obstruction.
- **Firmware Update Failure:**
 - Use a reliable USB-C data cable.
 - Ensure your computer's USB port provides stable power.
 - Follow the official firmware update instructions precisely.

8. SPECIFICATIONS

Feature	Detail
Model Name	Zorro
Item Model Number	HP157-ZOR
Physical Dimensions	170mm x 159mm x 108mm (6.69 x 6.26 x 4.25 inches)
Item Weight	350 grams (0.77 pounds)
Operating System	OpenTX / EdgeTX Compatible
Control Channels	Maximum 16 (Rx dependent)
Operating Frequency	2.400GHz-2.480GHz
Internal RF Options	4-in-1 Multi-Protocol
Supported Protocols	Module Dependent

Module Bay	Nano size (Compatible with TBS Nano Crossfire / Nano Tracer / IRC Ghost)
Gimbal Type	Hall-effect
Display	128*64 Monochrome LCD
Charging	Built-in USB-C Charging
Operational Voltage	6.6-8.4v DC
Operational Current	160mA@8.4V
RF Power	4-in-1 20dBm max
Control Distance	> 2km @ 20dbm
Firmware Upgrade Method	Via USB or SD card (SD Not included)
Batteries	2 Lithium Ion batteries required (included)
Manufacturer Recommended Age	17 years and up

9. WARRANTY AND SUPPORT

For specific warranty information, please refer to the documentation provided with your purchase or contact the retailer/manufacturer directly. RadioMaster products typically come with a limited warranty covering manufacturing defects.

For technical support, firmware downloads, and additional resources, please visit the official RadioMaster website or the OpenTX/EdgeTX community forums. These resources provide comprehensive guides, FAQs, and community assistance for troubleshooting and advanced configurations.

Manufacturer: RadioMaster

Brand (Seller): RotorLogic

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.

Name

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Question

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

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question