Radiomaster Pocket

Radiomaster Pocket ELRS Remote Controller User Manual

Model: Pocket

1. Introduction

This manual provides essential instructions for the safe and effective operation of your Radiomaster Pocket ELRS Remote Controller. This portable Hall Gimbal EdgeTX Transmitter is designed for controlling various remote-controlled vehicles, including FPV Drones, RC Helicopters, Cars, Boats, and Multirotors. Please read this manual thoroughly before use and retain it for future reference.

2. Safety Information

- Always operate your remote controller in a safe environment, away from people, animals, and obstacles.
- Ensure the batteries are correctly installed and charged before each use.
- Do not expose the controller to extreme temperatures, moisture, or direct sunlight.
- Keep the device out of reach of children.
- Regularly inspect the controller for any signs of damage. Do not operate if damaged.
- Use only recommended accessories and replacement parts.

3. Package Contents

Verify that all items listed below are included in your package:

- 1x Radiomaster Pocket Transmitter (Default Mode 2)
- 1x Custom Carry Pouch
- 1x USB-C Cable
- 1x Quick Start Manual
- 1x Screen Protector
- 4x Low Tension Springs
- 1x Sticker Sheet

Note: 18650 batteries are not included and must be purchased separately.

Image: Contents of the Radiomaster Pocket ELRS Remote Controller package, including the transmitter, carry pouch, USB-C cable, manual, screen protector, springs, and stickers.

4. Product Overview

Familiarize yourself with the various components and features of your Radiomaster Pocket ELRS Remote Controller.

Image: Front view of the Radiomaster Pocket ELRS Remote Controller with labels indicating the Antenna, LCD Screen, Left Gimbal, Right Gimbal, Trim Switches, RTN Button, PAGE> Button, PAGE< Button, TELE Button, SYS Button, Speaker, MDL Button, Power Button, and Menu Wheel.

Image: Back and bottom view of the Radiomaster Pocket ELRS Remote Controller with labels indicating the S1-Pot, SE-Momentary Switch, Stick Storage Compartment, External Module Bay, SA-Self Locking Switch, SB-Position, SC-Position, SD-Self Locking Switch, DSC Trainer Port, USB Port, 3.5mm Headphone Jack, Type-C Charge Port, and SD Card Slot.

Key Features:

- **Hall-Effect Gimbals:** Provide smooth centering and precise response for enhanced control.
- **ExpressLRS Compatibility:** Integrated for long-range connectivity and low-latency control.
- **EdgeTX Firmware:** Preloaded for advanced customization and seamless integration.
- **16 Channels Output:** Supports complex control setups.
- **Backlit LCD Screen:** Offers clear visibility of settings and telemetry data.
- **Built-in LED Lights:** Visualize switch inputs for quick feedback.
- **Portable Design:** Features removable stick ends and a foldable antenna for easy transport and storage.

Image: Graphic illustrating key features of the Radiomaster Pocket ELRS Remote Controller, including Hall Joystick, 16 Channels, ELRS, 2.4G, and LED Screen.

5. Setup

5.1 Battery Installation

The Radiomaster Pocket requires two 18650 batteries (not included). Ensure you use unprotected, flat-top, or button-top 18650 batteries. Protected 18650 batteries are not compatible.

1. Locate the battery compartments on the back of the controller.
2. Insert two 18650 batteries, observing the correct polarity (+/-) as indicated inside the compartments.
3. Securely close the battery compartment covers.

5.2 Initial Power On

1. Press and hold the Power Button until the LCD screen illuminates.
2. The controller will boot into the EdgeTX firmware.
3. Follow any on-screen prompts for initial setup or calibration.

5.3 Firmware

Your Radiomaster Pocket comes preloaded with EdgeTX firmware. This advanced open-source firmware allows for extensive customization and compatibility with modern RC systems. For detailed configuration and advanced features, refer to the official EdgeTX documentation available online.

6. Operating Instructions

6.1 Gimbal Control

The Hall-effect gimbals provide precise and smooth control. Use the Left and Right Gimbals to control the movement and orientation of your RC vehicle. The gimbals offer minimal drift for consistent performance.

6.2 Trim Buttons

The Trim Buttons located near the gimbals allow for fine-tuning of channel outputs. Pressing these buttons adjusts the neutral position of the corresponding channel, helping to achieve stable flight or movement.

6.3 Mode Switching (Mode 1 / Mode 2)

The controller is set to Mode 2 by default. To switch between Mode 1 and Mode 2:

1. Open the back cover of the handles to access the throttle mechanism.
2. Adjust the tightness of the screws on both sides to control the throttle stick's friction and centering.
3. Access the internal parameters within the EdgeTX firmware settings to configure the desired control mode (Mode 1 or Mode 2).

6.4 ExpressLRS Connectivity

The integrated ExpressLRS module provides robust, long-range, and low-latency communication with compatible receivers. Ensure your receiver is also running ExpressLRS firmware and is properly bound to the transmitter.

6.5 LED Lights

The built-in LED lights provide visual feedback for switch inputs and other operational statuses, enhancing user interaction.

Image: The Radiomaster Pocket ELRS Remote Controller shown with various compatible RC models, including Multirotor, Helicopter, Fixed Wing, RC Car, RC Boat, and Robot.

6.6 Product Overview Video

Your browser does not support the video tag.

Video: A product overview of the Radiomaster Pocket ELRS Remote Controller, demonstrating its features and compact design.

7. Maintenance

7.1 Cleaning

Wipe the controller with a soft, dry cloth. Avoid using harsh chemicals or abrasive materials that could damage the surface or internal components.

7.2 Storage

For convenient transport and storage, the Radiomaster Pocket features removable stick ends and a foldable antenna. Remove the stick ends and fold the antenna down before placing the controller in its custom carry pouch. Store the controller in a cool, dry place, away from direct sunlight and extreme temperatures.

7.3 Battery Care and Charging

The controller supports USB-C PD charging for its 18650 batteries. Connect the included USB-C cable to the Type-C Charge Port and a compatible USB power adapter. Ensure the batteries are charged regularly to maintain optimal performance and extend their lifespan. Avoid overcharging or fully discharging the batteries.

8. Troubleshooting

- **Controller not powering on:** Ensure 18650 batteries are correctly installed with proper polarity and are sufficiently charged. Verify that unprotected batteries are used.
- **No response from RC vehicle:** Check that the controller and receiver are properly bound and operating on the same protocol (ExpressLRS). Verify that the RC vehicle's battery is charged and connected.
- **Erratic control:** Recalibrate gimbals and ensure trim settings are neutral. Check for any physical obstructions or damage to the gimbals.
- **Firmware issues:** If experiencing software-related problems, consult the EdgeTX documentation for troubleshooting steps or consider updating the firmware via USB or SD card.

9. Specifications

Feature	Specification
Product Dimensions (Folded)	156.6 x 65.1 x 125.3 mm
Product Dimensions (Unfolded)	156.6 x 73.1 x 154.8 mm
Item Weight	288 grams
Operating System	EdgeTX
Control Channels	Maximum 16 (Rx dependent)
Display	128*64 Monochrome LCD
Battery	2*18650 (Not Included)
Charging	Built-in USB-C charging
Operating Frequency	2.400GHz-2.480GHz
Internal RF Options	CC2500 multi-protocol ELRS 2.4GHz
Supported Protocols	Module dependent
Operational Voltage	6.6-8.4V DC
Gimbal Type	Hall-effect
Module Bay	Nano size (Compatible with TBS Nano Crossfire / Nano Tracer / RM Ranger Nano Modules)
Firmware Upgrade Method	Via USB or SD card

Feature	Specification
Compatible Devices	FPV Drone/RC Helicopter&Car Boats&Multirotor

10. Warranty and Support

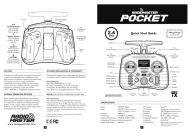
10.1 Warranty Information

This product is covered by a limited manufacturer's warranty against defects in materials and workmanship. Please refer to the warranty card included in your package or visit the official Radiomaster website for detailed warranty terms and conditions.

10.2 Technical Support

For technical assistance, troubleshooting, or further inquiries, please visit the official Radiomaster support website or contact their customer service. Online resources, forums, and community support are also available for EdgeTX firmware and general RC operation.

Related Documents - Pocket

	RadioMaster ZORRO POCKET Quick Start Guide A concise quick start guide for the RadioMaster ZORRO POCKET RC transmitter, detailing setup, operation, safety, specifications, and regulatory information. Features multi-protocol support and EdgeTX.
	RadioMaster POCKET Quick Start Guide: Features, Setup, and Specifications A comprehensive quick start guide for the RadioMaster POCKET RC transmitter. This document covers essential information on setup, gimbal adjustment, power requirements, protocol selection (CC2500 & ELRS), technical specifications, warranty, and safety guidelines.
	RadioMaster POCKET Quick Start Guide A comprehensive quick start guide for the RadioMaster POCKET 2.4GHz radio system, detailing setup, safety precautions, specifications, and binding procedures for RC enthusiasts.

	RadioMaster POCKET Quick Start Guide A quick start guide for the RadioMaster POCKET radio system, covering introduction, safety information, firmware updates, gimbal adjustment, remote control overview, power requirements, model selection, protocol selection, and specifications.
	RadioMaster Boxer Quick Start Guide: Setup, Features, and Specifications Comprehensive quick start guide for the RadioMaster Boxer 2.4GHz remote control system. Learn about setup, safety, firmware updates, specifications, and FCC compliance.
	RadioMaster POCKET RC Transmitter User Manual and Quick Start Guide Comprehensive guide to the RadioMaster POCKET RC transmitter, covering setup, safety, specifications, and features. Learn about model selection, protocol configuration, and charging.