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RADIOMASTER ELRS-Transparent

Radiomaster Pocket Hall Gimbal Transmitter User Manual

Model: ELRS-Transparent | Brand: RADIOMASTER

1. Introduction

The Radiomaster Pocket is a compact and lightweight radio transmitter designed for various remote-controlled applications. It is available in ExpressLRS and MPM CC2500 versions, both preinstalled with EdgeTX firmware. This manual provides essential information for setting up, operating, and maintaining your Radiomaster Pocket transmitter.

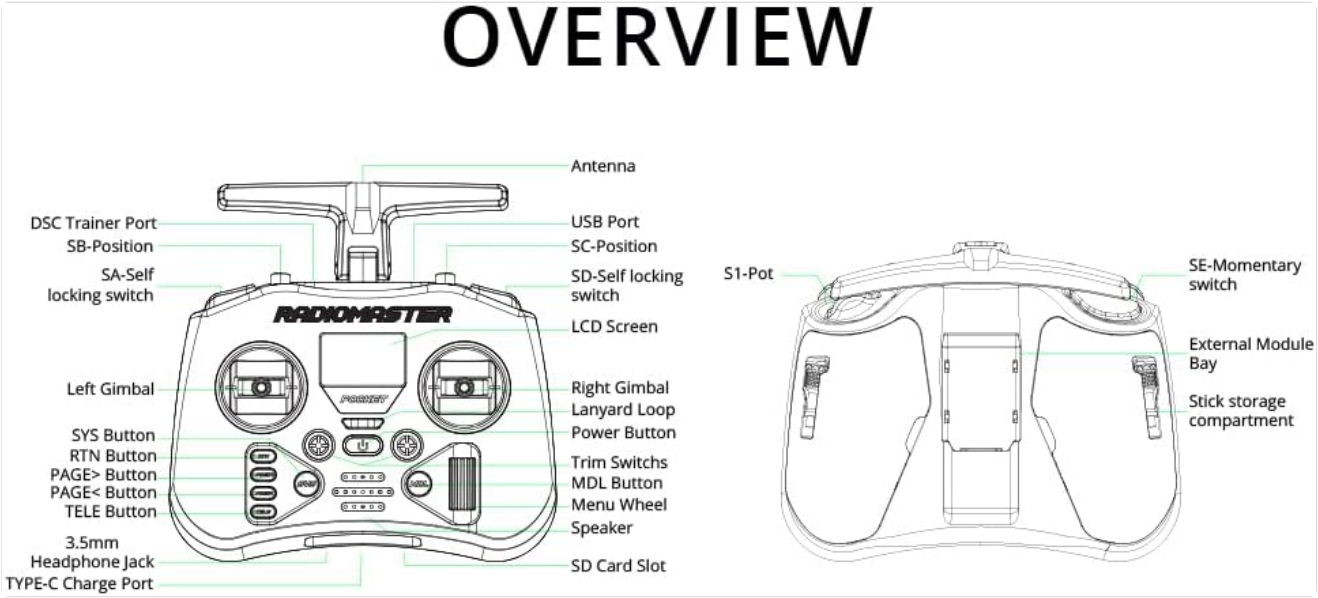

Figure 1: Radiomaster Pocket Hall Gimbal Transmitter (ELRS-Transparent)

2. Safety Information

Please refer to the instruction manual before use. Always operate the transmitter responsibly and ensure all connections are secure before use. Improper use may result in damage to the device or connected equipment.

3. Product Overview

The Radiomaster Pocket transmitter features a robust design with several key components for precise control and

user convenience.

Figure 2: Front and Rear View Component Diagram

Key Features:

- **Hall Gimbals:** Provides smooth centering and precise response for control inputs.
- **Removable Stick Ends:** Allows for easy transport and storage by detaching the stick ends.
- **Foldable Antenna:** The antenna can be folded for compact storage, preventing damage during transport.
- **Backlit LCD Screen:** Offers a clear display of settings and telemetry data, balancing size and functionality.
- **18650 Battery Compatibility:** Designed to operate with 18650 batteries for extended usage (batteries not included).
- **Built-in LED Lights:** Visualizes control inputs and operational status.
- **External Module Bay:** Compatible with RadioMaster Nano-size modules and TBS Nano Crossfire/Nano Tracer for expanded functionality.

RADIOMASTER
POCKET

CE FC RoHS
Model: POCKET 6.6-8.4V Made in China
2A337-POCKET-CC2500 / 2A337-POCKET-ELRS
Shenzhen Radiomaster Co.,Ltd

Figure 3: Front and Back Views of the Transmitter

Figure 4: Side View of the Transmitter

Figure 5: Removable Stick Ends and Foldable Antenna

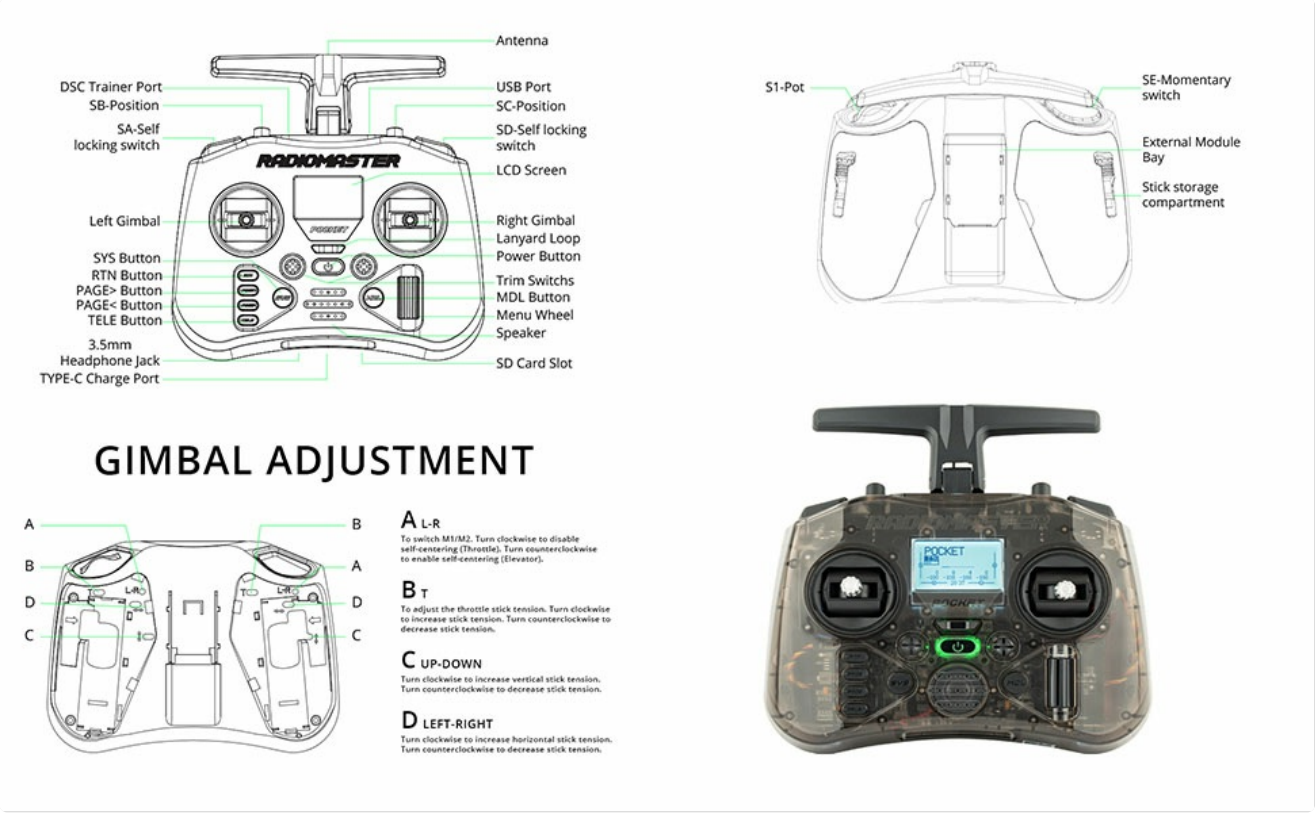

Figure 6: Built-in LED Lights and External Module Bay

4. Setup

4.1. Battery Installation

The Radiomaster Pocket uses 18650 batteries (not included). Open the battery compartments on the rear of the transmitter and insert the batteries according to the polarity indicators. Close the compartments securely.

4.2. Antenna Deployment

Unfold the antenna from its stored position to the upright position before operation to ensure optimal signal transmission and reception.

4.3. Stick End Installation/Removal

The stick ends are removable for convenience. To install, screw them onto the gimbals. To remove, unscrew and store them in the designated compartments on the side of the transmitter.

Figure 7: Stick End Details and Storage

4.4. Initial Power On

Press and hold the power button until the LCD screen illuminates and the EdgeTX firmware starts. Follow any on-screen prompts for initial setup or calibration.

4.5. Connecting to a Computer (Joystick Mode)

Connect the transmitter to your computer using a USB-C cable. The transmitter can function as a joystick for flight simulators, allowing you to practice flying before real flights. Ensure the transmitter is in the correct USB mode (e.g., Joystick) as per the EdgeTX settings.

Video 1: Overview of the Radiomaster Pocket Hall Gimbal Transmitter and EdgeTX features by a seller.

5. Operating Instructions

5.1. Basic Controls

- **Gimbals:** Control the primary movements of your aircraft (throttle, roll, pitch, yaw).

- **Switches (SA, SB, SC, SD, SE):** Configurable switches for various functions such as flight modes, arming, or special actions.
- **Buttons (SYS, RTN, PAGE>, PAGE<, TELE):** Used for navigating the EdgeTX menu system and accessing specific functions.
- **Menu Wheel:** For scrolling through menu options and adjusting values on the LCD screen.
- **Trim Buttons:** Used for fine-tuning channel outputs for stable flight.

5.2. LCD Screen Navigation

The backlit LCD screen displays real-time information and allows access to the EdgeTX operating system. Use the menu wheel and navigation buttons (SYS, RTN, PAGE>, PAGE<, TELE) to browse and adjust settings.

5.3. Gimbal Adjustment

The gimbals can be adjusted for tension and self-centering. Refer to the diagram below for specific adjustment points:

Figure 8: Gimbal Adjustment Points

- **A (I-R):** Turn clockwise to disable self-centering (throttle), counter-clockwise to enable self-centering.
- **B (T):** Turn clockwise to increase stick tension, counter-clockwise to decrease stick tension.
- **C (UP-DOWN):** Turn clockwise to increase vertical stick tension, counter-clockwise to decrease stick tension.
- **D (LEFT-RIGHT):** Turn clockwise to increase horizontal stick tension, counter-clockwise to decrease stick tension.

5.4. External Module Bay

The external module bay supports Nano-size modules, such as RadioMaster Nano-size modules, TBS Nano Crossfire, and TBS Nano Tracer. Ensure the module is correctly inserted and configured within the EdgeTX system.

5.5. DSC Trainer Port

The DSC Trainer Port allows connection to other transmitters for trainer/student mode or to simulators.

5.6. SD Card Slot

The SD card slot is used for storing models, sounds, and firmware updates for the EdgeTX operating system.

6. Maintenance

6.1. Cleaning

Wipe the transmitter with a soft, dry cloth. Avoid using harsh chemicals or abrasive materials that could damage the casing or screen.

6.2. Battery Care

Always use appropriate 18650 batteries and charge them using the provided USB-C cable or a compatible charger. Do not overcharge or fully discharge batteries. Store the transmitter with batteries at a moderate charge level if not used for extended periods.

6.3. Firmware Updates

Regularly check for and install firmware updates for the EdgeTX system to ensure optimal performance and access to new features. Instructions for updating firmware are typically available on the Radiomaster website or EdgeTX community forums.

7. Troubleshooting

7.1. Transmitter Does Not Power On

- Ensure 18650 batteries are correctly installed and sufficiently charged.
- Verify the power button is pressed and held for the required duration.

7.2. "Switch Warning" on Startup

This warning indicates that one or more switches are not in their default or expected position during startup. Move all switches to their designated 'off' or 'up' positions, then press any button to clear the warning.

7.3. Connection Issues with Drone/Receiver

- Confirm the transmitter and receiver are properly bound.
- Check that the correct model profile is selected on the transmitter.
- Ensure the external module (if used) is correctly installed and configured.

7.4. Computer Does Not Recognize Transmitter

- Ensure the USB-C cable is functional and properly connected.
- Verify the transmitter is in the correct USB mode (e.g., Joystick, USB Storage) via the EdgeTX menu.
- Install any necessary drivers for your operating system, if prompted.

8. Specifications

Figure 9: Transmitter Dimensions

Feature	Specification
Brand	RADIOMASTER
Model Number	749614673711
Item Weight	1.15 pounds
Product Dimensions	8 x 5 x 4 inches
Number of Channels	16
Frequency Range	2.400GHz-2.480GHz
Talking Range Maximum	5 Kilometers
Water Resistance Level	Not Water Resistant
Compatible Devices	RadioMaster Nano-size modules, TBS Nano Crossfire, TBS Nano Tracer

9. What's in the Box

The Radiomaster Pocket package includes the following items:

- 1 x Pocket Radio Transmitter
- 1 x Custom Carry Pouch
- 1 x USB-C Cable
- 1 x Screen Protector
- 1 x Sticker

Figure 10: Package Contents

10. Warranty and Support

For warranty information, technical support, or further assistance, please refer to the official RADIOMASTER website or contact their customer service. You can also visit the RADIOMASTER Store on Amazon for product-related inquiries.

Video 2: A seller's review highlighting the portability and features of the RC Transmitter.