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> RC Pro Enterprise Remote Controller User Manual

kcolpas RM510B

RC Pro Enterprise Remote Controller User Manual

Model: RM510B (Item Model Number: kcolpas123)

Brand: kcolpas

1. PRODUCT OVERVIEW

The RC Pro Enterprise Remote Controller, Model RM510B, is a sophisticated control device designed for professional drone operations. It features a next-generation processor for stable and seamless operation, enhanced image quality with advanced video transmission, and expanded storage capacity for high-quality aerial footage. The controller is equipped with intuitive control sticks for precise maneuvering and a high-bright screen for clear visuals even in direct sunlight.



Figure 1: Front view of the RC Pro Enterprise Remote Controller. This image displays the controller's integrated screen, dual joysticks, and control buttons, highlighting its ergonomic design.

2. COMPATIBILITY

This remote controller is compatible with the following DJI drone models and systems:

- Matrice 3D
- Matrice 3TD
- Dock 2
- Mavic 3E
- Mavic 3T
- Mavic 3M

3. SETUP

3.1 Initial Charging

Before first use, fully charge the RC Pro Enterprise Remote Controller. Connect the provided charging cable to the controller's charging port and a suitable power adapter. The charging indicator will provide status updates.

3.2 Powering On/Off

1. **To Power On:** Press and hold the power button until the screen illuminates.
2. **To Power Off:** Press and hold the power button until a power-off prompt appears on the screen, then confirm.

3.3 Pairing with Aircraft

Refer to your specific aircraft's user manual for detailed pairing instructions. Generally, ensure both the controller and the aircraft are powered on and in pairing mode. Follow the on-screen prompts on the RC Pro Enterprise controller to complete the pairing process.

4. OPERATING INSTRUCTIONS

4.1 Control Sticks

The RC Pro Enterprise features highly responsive control sticks, adapted from FPV technology, for precise and fluid control of your aircraft. Familiarize yourself with the stick modes (e.g., Mode 1, Mode 2) and practice in a safe environment before advanced operations.

4.2 High-Bright Screen Usage

The integrated 1000-nit high-bright screen provides clear visibility even in direct sunlight. Use the touch interface to navigate menus, adjust settings, and view real-time telemetry and video feeds from your drone.



Figure 2: Operator using the RC Pro Enterprise Remote Controller. This image shows a user holding the controller, with the screen displaying drone footage, and a drone flying in the background, demonstrating outdoor usability.

4.3 Advanced Features

The controller's advanced processing capabilities enable features such as enhanced video transmission and seamless operation. Explore the controller's software interface for specific functions related to your connected aircraft, including flight modes, camera controls, and intelligent flight features.

5. MAINTENANCE

5.1 Cleaning

Wipe the controller's surface with a soft, dry, lint-free cloth. For stubborn dirt, slightly dampen the cloth with water. Avoid using harsh chemicals, solvents, or abrasive materials, as these can damage the screen or casing.

5.2 Storage

Store the controller in a cool, dry place away from direct sunlight and extreme temperatures. If storing for extended periods, ensure the battery is charged to approximately 50-60% to maintain battery health. Remove the control sticks if a dedicated storage slot is available to prevent damage.

5.3 Battery Care

To prolong battery life, avoid fully discharging the controller frequently. Recharge the battery regularly, even if not in use, to prevent deep discharge. Do not expose the battery to water or fire.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Controller does not power on.	Low battery; Power button not pressed correctly.	Charge the controller fully. Press and hold the power button for several seconds.
Unable to connect to aircraft.	Aircraft not powered on; Not in pairing mode; Interference.	Ensure aircraft is powered on. Activate pairing mode on both devices. Move to an area with less interference.
Screen is dim or unresponsive.	Brightness settings; Software glitch.	Adjust screen brightness in settings. Restart the controller. Ensure software is up to date.
Control sticks feel unresponsive.	Calibration issue; Physical obstruction.	Perform stick calibration via controller settings. Check for any debris around the stick base.

7. SPECIFICATIONS

Feature	Detail
Model Number	RM510B (Item Model Number: kcolpas123)
Brand	kcolpas
Package Dimensions	7.09 x 5.12 x 1.97 inches
Item Weight	1.54 pounds
Connectivity Technology	Radio Frequency

Feature	Detail
Compatible Devices	Matrice 3D/3TD, Dock 2, Mavic 3E, Mavic 3T, Mavic 3M
Special Feature	Advanced Processing
Color	One Color
Screen Brightness	1000 nits (average)

8. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official kcolpas website or contact their customer service directly. Keep your proof of purchase for warranty claims.

Note: This manual provides general guidance. Specific operational details may vary based on the connected aircraft model and firmware version. Always refer to the latest documentation provided by the manufacturer for your specific setup.