DJI RC331

DJI RC 2 Remote Controller User Manual

Model: RC331

Introduction

The DJI RC 2 is an advanced remote controller designed for seamless and intuitive drone operation. Featuring a lightweight body, a vibrant 5.5-inch full-HD screen, and a powerful next-generation processor, it offers an enhanced flying experience. With O4 video transmission and 2T4R antennas, the RC 2 ensures stable and reliable communication over long distances. This manual provides essential information for setting up, operating, and maintaining your DJI RC 2 remote controller.



Figure 1: Front view of the DJI RC 2 Remote Controller, showcasing its integrated 5.5-inch FHD display with a vibrant mountain landscape.

Product Overview

The DJI RC 2 integrates a high-resolution display and intuitive controls for a streamlined piloting experience. Key features include:

- **Next-gen Processor:** 6nm, 8-core processing for smoother system performance.
- **5.5-inch FHD Screen:** 700-nit touchscreen display for clear viewing in bright conditions.
- **O4 Video Transmission:** Provides smooth, ultra-reliable feeds with enhanced anti-interference capability.
- **2T4R Antennas:** Four powerful antennas (two built-in, two external) for stable video transmission.
- **Light and Compact:** Weighs just 420 grams for comfortable extended use.



Figure 2: The DJI RC 2 in use, highlighting its next-gen processor for improved performance.

Setup

1. Powering On/Off

To power on the DJI RC 2, press the power button once, then press and hold it for two seconds. The controller will vibrate and the screen will light up. To power off, repeat the same sequence.



Figure 3: Quick launch feature of the DJI RC 2, allowing immediate operation without smartphone connection.

2. Firmware Update

Ensure your DJI RC 2 is running the latest firmware for optimal performance and compatibility. Connect the controller to Wi-Fi and navigate to the firmware update section in the DJI Fly app. Follow the on-screen prompts to download and install updates. It is recommended to have a stable internet connection and sufficient battery life during updates.

Your browser does not support the video tag.

Video 1: Demonstrates the process of connecting the DJI Neo to the DJI RC 2, which often involves firmware updates.

3. Binding/Connecting to Drone

The DJI RC 2 uses O4 video transmission for connection. To bind the controller to your drone (e.g., DJI Mini 4 Pro, DJI Air 3, DJI Neo), ensure both devices are powered on. Follow the binding instructions within the DJI Fly app on the controller's screen. The RC 2 is not backward compatible with older Ocusync versions (Ocusync 3/3+).



Figure 4: The DJI RC 2's O4 video transmission system provides a maximum range of 20km.

4. Antenna Adjustment

The DJI RC 2 features two built-in and two external 2T4R antennas. For optimal signal strength and transmission range, ensure the external antennas are unfolded and positioned correctly during flight. Adjust them to point towards the drone for the best connection.



Figure 5: The DJI RC 2's four antennas (two internal, two external) ensure stable video transmission.

5. Screen Protector Installation

To protect the 5.5-inch FHD screen, consider installing a screen protector. Clean the screen thoroughly with the provided alcohol wipes and dust absorber. Carefully align the screen protector and apply it, pushing out any air bubbles. Allow a few days for full adhesion.

Your browser does not support the video tag.

Video 2: A review of the RC 2 Sun Hood protective cover, which often includes screen protectors and installation instructions.

6. Protective Cover Installation

A silicone protective cover can enhance grip and protect your controller from minor impacts. These covers are flexible and easy to install and remove. Ensure all ports and buttons remain accessible after installation.

Your browser does not support the video tag.

Video 3: Demonstrates the installation of a protective cover for the DJI RC and RC 2 controllers.

7. Neck Strap Installation

For added security and comfort during extended use, attach a neck strap. The DJI RC 2 has dedicated screw-in points at the bottom for attaching the strap hardware. Ensure the hardware is securely fastened before attaching the strap clips.

Your browser does not support the video tag.

Video 4: Shows the installation of a shoulder lanyard and neck strap for the DJI RC and RC 2 controllers.

Operating

1. Basic Controls

The DJI RC 2 features dual joysticks for precise drone control. The left joystick typically controls altitude and yaw, while the right joystick controls forward/backward and left/right movement. Dedicated buttons are available for recording, zooming, and camera functions.

Compatibility

	 DJI RC 2	 DJI RC-N2	 DJI RC	 DJI RC-N3	 DJI RC Pro
DJI Mavic 3 Pro					
DJI Mavic 3 Pro Cine					
DJI Mavic 3	✗	✗	✓	✗	✓
DJI Mavic 3 Cine					
DJI Mavic 3 Classic					
DJI Air 3S	✓	✗	✗	✓	✗
DJI Air 3	✓	✓	✗	✓	✗
DJI Air 2S	✗	✗	✓	✗	✓
DJI Neo	✓	✓	✗	✓	✗
DJI Flip	✓	✓	✗	✓	✗
DJI Mini 4 Pro	✓	✓	✗	✓	✗
DJI Mini 3 Pro	✗	✗	✓	✗	✓

Figure 6: Hands-on operation of the DJI RC 2, demonstrating the tactile controls.

2. Display Features

The 5.5-inch FHD touchscreen display offers a bright 700-nit output, ensuring visibility even in direct sunlight. The display shows real-time video feed from the drone, flight parameters, and access to the DJI Fly app interface.



Figure 7: The bright built-in screen of the DJI RC 2 provides clear visuals in various outdoor conditions.

3. Compatibility

The DJI RC 2 is compatible with the following DJI drone models:

- DJI Flip
- DJI Mini 4 Pro
- DJI Air 3
- DJI Air 3S
- DJI Neo



Figure 8: Detailed compatibility matrix for the DJI RC 2, showing supported drone models.

Maintenance

1. Cleaning

Regularly clean the screen and body of your DJI RC 2 with a soft, lint-free cloth. For the screen, use a screen-specific cleaning solution if necessary. Avoid harsh chemicals or abrasive materials that could damage the surface.

2. Storage

When not in use, store the DJI RC 2 in a cool, dry place away from direct sunlight. The joysticks can be removed and stored in their designated slots on the back of the controller to prevent damage during transport.

3. Battery Care

To prolong battery life, avoid fully discharging the controller's battery. Charge it regularly, even if not in frequent use. Store the controller with a battery charge between 40% and 60% for long-term storage.

Troubleshooting

1. Firmware Issues

If you encounter issues after a firmware update, try restarting the controller and the drone. If problems persist, connect to DJI Assistant 2 on a computer and attempt to refresh or downgrade the firmware to a stable version.

2. Connection Issues

Ensure both the controller and drone are fully charged and within range. Check antenna positioning. If connection is lost, try re-binding the controller to the drone through the DJI Fly app. Ensure no strong interference sources are nearby.

3. Screen Visibility

While the screen is bright, direct harsh sunlight can still cause glare. Consider using a sun hood accessory for improved visibility in extremely bright conditions.

Specifications

Feature	Detail
Brand	DJI
Model Name	RC331
Screen Size	5.5-inch FHD
Screen Brightness	700 nits
Video Transmission	O4
Maximum Range	20000 Meters (20km)
Antennas	2T4R (2 built-in, 2 external)
Item Weight	0.94 Pounds (420 grams)
Dimensions	6.6"L x 5.2"W x 2.5"H
Battery Type	Lithium Polymer

Warranty & Support

For detailed warranty information, technical support, or service requests, please visit the official DJI website or contact DJI customer service. Keep your proof of purchase for warranty claims.
Official DJI Store: Visit the DJI Store on Amazon

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

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

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