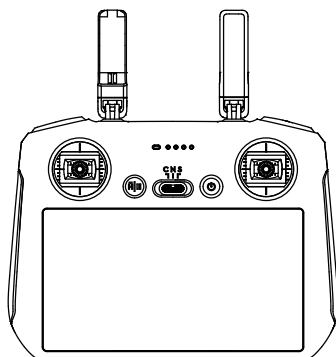


dji RC 2

User Manual

v1.0 2023.07





Searching for Keywords

Search for keywords such as “battery” and “install” to find a topic. If you are using Adobe Acrobat Reader to read this document, press Ctrl+F on Windows or Command+F on Mac to begin a search.

Navigating to a Topic


View a complete list of topics in the table of contents. Click on a topic to navigate to that section.


Printing this Document

This document supports high resolution printing.

Using this manual

Legend

 Important

 Hints and Tips

 Reference

Read Before the First Flight

DJI™ provides users with tutorial video and the following documents.

1. Product Information
2. User Manual

It is recommended to watch the tutorial video and read the product information before using for the first time. Refer to this user manual for more information.

Video Tutorials

Go to the address below or scan the QR code to watch the tutorial video, which demonstrates how to use the product safely.



<https://s.dji.com/guide62>

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Product Profile

Introduction

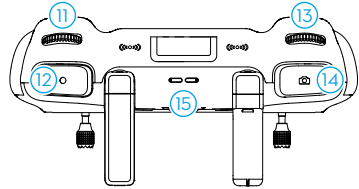
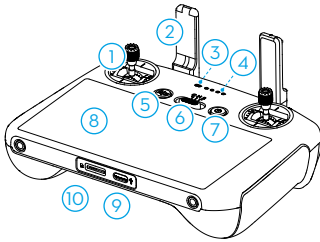
The DJI RC 2 remote controller features OCUSYNC™ video transmission technology ^[1] and works at 2.4 GHz, 5.8 GHz, and 5.1 GHz frequency bands. ^[2] It is capable of selecting the best transmission channel automatically and can transmit 1080p 60fps HD live view from the aircraft to the remote controller. Equipped with a 5.5-in touchscreen (1920×1080 pixel resolution) and a wide range of controls and customizable buttons, DJI RC 2 enables users to easily control the aircraft and remotely change the aircraft settings. DJI RC 2 comes with many other functions such as built-in GNSS (GPS+Galileo+BeiDou), Bluetooth and Wi-Fi connection.

The remote controller has detachable control sticks, built-in speakers, a 32GB internal storage, and supports the use of a microSD card for additional storage needs.

The 6200mAh 22.32Wh battery provides the remote controller a maximum operating time of three hours. ^[3]

- [1] When used with different aircrafts, the DJI RC 2 remote controller will automatically select the corresponding firmware version for updating to support the video transmission technology of the linked aircraft. Refer to the user manual of the linked aircraft for more information.
- [2] Operating frequency allowed varies according to country/region. Please refer to local laws and regulations for more information.
- [3] Tested in a 25° C (77° F) laboratory environment with DJI RC 2 connected to DJI Air 3 in normal flight status and recording 1080p/60fps video.

Overview



1. Control Sticks

Use the control sticks to control the movement of the aircraft. The control sticks are removable and easy to store. Set the flight control mode in DJI Fly.

2. Antennas

Relay aircraft control and video wireless signals.

3. Status LED

Indicates the status of the remote controller.

4. Battery Level LEDs

Displays the current battery level of the remote controller.

5. Flight Pause/Return to Home (RTH) Button

Press once to make the aircraft brake and hover in place (only when GNSS or Vision Systems are available). Press and hold to initiate RTH. Press again to cancel RTH.

6. Flight Mode Switch

Switch between Cine, Normal, and Sport mode.

7. Power Button

Press once to check the current battery level. Press, and then press and hold to power the remote controller on or off.

When the remote controller is powered on, press once to turn the touchscreen on or off.

8. Touchscreen

Touch the screen to operate the remote controller. Note that the touchscreen is not waterproof. Operate with caution.

9. USB-C Port

For charging and connecting the remote controller to your computer.

10. microSD Card Slot

For inserting a microSD card.

11. Gimbal Dial

Controls the tilt of the camera.

12. Record Button

Press once to start or stop recording.

13. Camera Control Dial

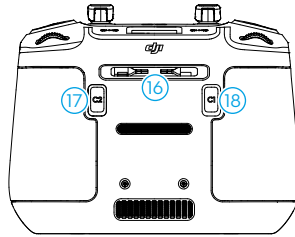
For zoom control. Set the function in DJI Fly by entering Camera View > Settings > Control > Button Customization.

14. Focus/Shutter Button

Press halfway down on the button to auto focus and press all the way down to take a photo. Press once to switch to photo mode when in video mode.

15. Speaker

Outputs sound.



16. Control Sticks Storage Slot

For storing the control sticks.

17. Customizable C2 Button

After linking the remote controller with the aircraft, users can view and set the function for the button in DJI Fly by entering Camera View > Settings > Control > Button Customization.

18. Customizable C1 Button

After linking the remote controller with the aircraft, users can view and set the function for the button in DJI Fly by entering Camera View > Settings > Control > Button Customization.

Preparing the Remote Controller

Watching the Tutorial Video



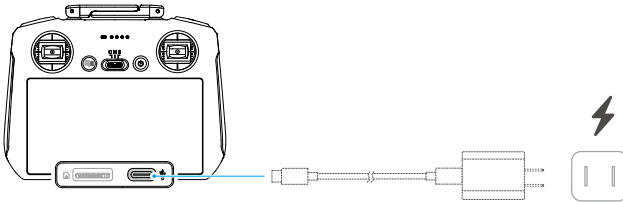
Go to the address below or scan the QR code to watch the tutorial video before using for the first time.



<https://s.dji.com/guide62>

Charging the Battery

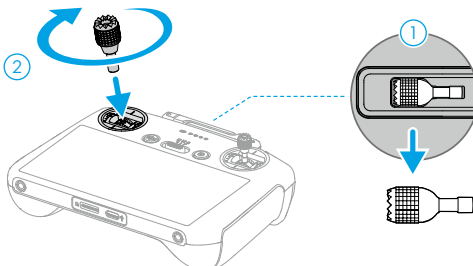
Connect a charger to the USB-C port on the remote controller. It takes approximately 1 hour and 30 minutes to fully charge the remote controller (with a 9V/3A USB charger).



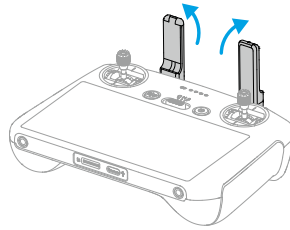
• Recharge the battery at least every three months to prevent over discharging. The battery depletes when stored for an extended period.

Mounting

1. Remove the control sticks from the storage slots and mount them on the remote controller.




2. Unfold the antennas.



Activating the Remote Controller

The remote controller needs to be activated before using for the first time. Make sure the remote controller can connect to the internet during activation. Follow the steps below to activate the remote controller.

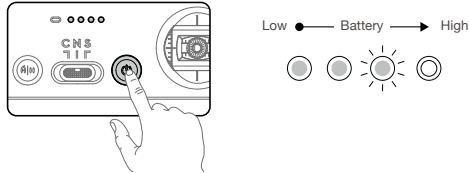
1. Power on the remote controller. Select the language and tap Next. Carefully read the terms of use and privacy policy and tap Agree. After confirming, set the country/region.
2. Connect the remote controller to the internet via Wi-Fi. After connecting, tap Next to continue and select the time zone, date, and time.
3. Log in with your DJI account. If you do not have an account, create a DJI account and log in.
4. Tap Activate on the activation page.
5. After activating, select if you would like to join the improvement project. The project helps to improve the user experience by sending diagnostic and usage data automatically every day. No personal data will be collected by DJI.

 • Check the internet connection if the activation fails. If the internet connection is normal, please try to activate the remote controller again. Contact DJI Support if the issue persists.

Remote Controller Operations

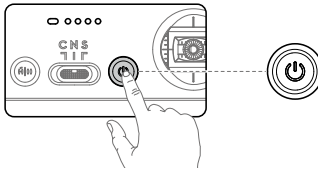
Checking the Battery Level

Press the power button once to check the current battery level.



Powering On/Off

Press and then press again and hold to power the remote controller on or off.



Linking the Remote Controller

The remote controller is already linked to the aircraft when purchased together as a combo. Otherwise, follow the steps below to link the remote controller and the aircraft after activation.

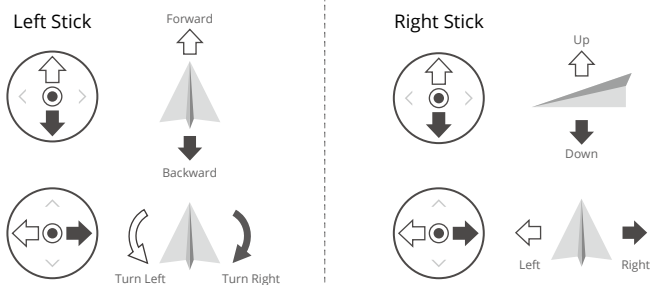
1. Power on the aircraft and the remote controller.
2. Launch DJI Fly.
3. In camera view, tap ●●● and select Control and then Re-pair to Aircraft. During linking, the status LED of the remote controller blinks blue and the remote controller beeps.
4. Press and hold the power button of the aircraft for more than four seconds. The aircraft beeps twice after a short beep, and its battery level LEDs blink in sequence to indicate it is ready to link. The remote controller will beep twice, and its status LED will turn solid green to indicate linking is successful.

- ☀ • Make sure the remote controller is within 0.5 m of the aircraft during the linking.
- The remote controller will automatically unlink from an aircraft if a new remote controller is linked to the same aircraft.
- Turn off Bluetooth and Wi-Fi for optimal video transmission.

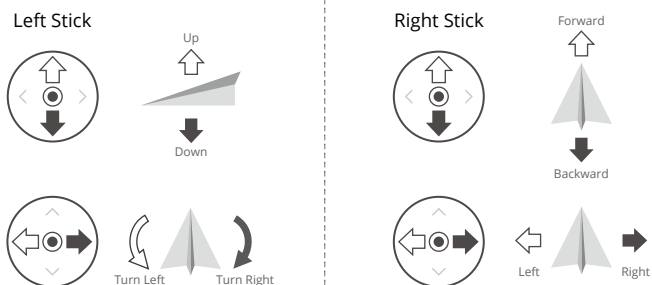
Controlling the Aircraft

Three preprogrammed modes (Mode 1, Mode 2, and Mode 3) are available and custom modes can be configured in the DJI Fly app.

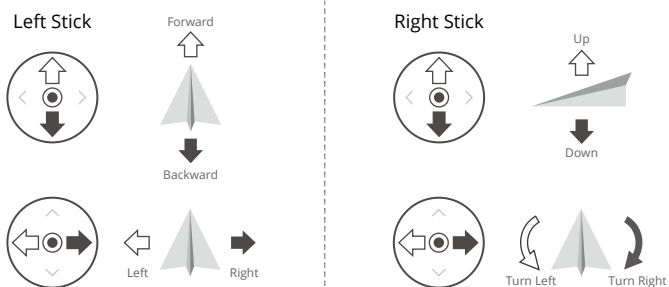
Mode 1



Mode 2


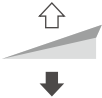








Mode 3



The default control mode of the remote controller is Mode 2. In this manual, Mode 2 is used as an example to illustrate how to use the control sticks.

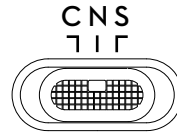
- Stick Neutral/Center Point: control sticks are in the center.
- Moving the control stick: the control stick is pushed away from the center position.

Remote Controller (Mode 2)	Aircraft	Remarks
		<p>Throttle Stick: moving the left stick up or down changes the altitude of the aircraft.</p> <ul style="list-style-type: none"> • Push the stick up to ascend and push down to descend. • The aircraft hovers in place if the stick is in the center. • The more the stick is pushed away from the center, the faster the aircraft changes elevation. <p>Use the left stick to take off when the motors are spinning at an idle speed. Push the stick gently to prevent sudden and unexpected changes in altitude.</p>
		<p>Yaw Stick: moving the left stick to the left or right controls the orientation of the aircraft.</p> <ul style="list-style-type: none"> • Push the stick left to rotate the aircraft counterclockwise and right to rotate the aircraft clockwise. • The aircraft hovers in place if the stick is in the center. • The more the stick is pushed away from the center, the faster the aircraft rotates.
		<p>Pitch Stick: moving the right stick up and down to change the pitch of the aircraft.</p> <ul style="list-style-type: none"> • Push the stick up to fly forward and down to fly backward. • The aircraft hovers in place if the stick is in the center. • The more the stick is pushed away from the center, the faster the aircraft moves.
		<p>Roll Stick: moving the right stick to the left or right changes the roll of the aircraft.</p> <ul style="list-style-type: none"> • Push the stick left to fly left and right to fly right. • The aircraft hovers in place if the stick is in the center. • The more the stick is pushed away from the center, the faster the aircraft moves.

Flight Mode Switch

Toggle the switch to select the desired flight mode.

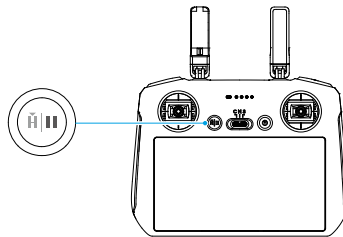
Position	Flight Mode
S	Sport Mode
N	Normal Mode
C	Cine Mode



• Refer to the flight modes section in the aircraft's user manual for more information about flight mode features for different aircraft types.

Flight Pause/RTH Button

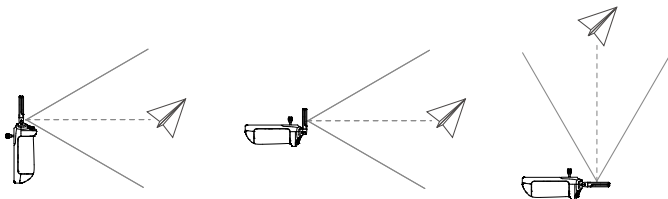
Press once to make the aircraft brake and hover in place. Press and hold the button until the remote controller beeps and starts RTH, and the aircraft will return to the last recorded Home Point. Press this button again to cancel RTH and regain control of the aircraft.



Optimal Transmission Zone

The signal between the aircraft and the remote controller is most reliable when the antennas are positioned in relation to the aircraft as illustrated below.

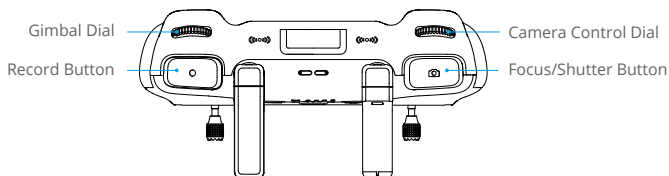
The optimal transmission range is where the antennas face toward the aircraft and the angle between the antennas and the back of the remote controller is 180° or 270°.



- DO NOT use other wireless devices operating at the same frequency as the remote controller. Otherwise, the remote controller will experience interference.
- A prompt will be displayed in DJI Fly if the transmission signal is weak during flight. Adjust the antennas to make sure that the aircraft is in the optimal transmission range.

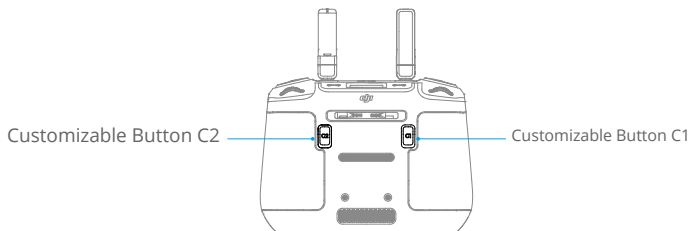
Controlling the Gimbal and Camera

1. **Focus/Shutter Button:** press halfway down to auto-focus and press all the way down to take a photo.
2. **Record Button:** press once to start or stop recording.
3. **Camera Control Dial:** use to adjust the zoom by default. The dial function can be set to adjust the focal length, EV, aperture, shutter speed, and ISO.
4. **Gimbal Dial:** control the tilt of the gimbal.











Customizable Buttons

Go to Settings in DJI Fly and select Control to set the functions of the customizable C1 and C2 buttons.



















Remote Controller LEDs

Status LED

Blinking Pattern	Descriptions
 — Solid red	Disconnected from the aircraft.
 Blinking red	The battery level of the aircraft is low.
 — Solid green	Connected with the aircraft.
 Blinking blue	The remote controller is linking to an aircraft.
 — Solid yellow	Firmware update failed.
 — Solid blue	Firmware update successful.
 Blinking yellow	The battery level of the remote controller is low.
 Blinking cyan	Control sticks not centered.

Battery Level LEDs

Blinking Pattern				Battery Level
				76%-100%
				51%-75%
				26%-50%
				0%-25%

Remote Controller Alert

The remote controller beeps when there is an error or warning. Pay attention when prompts appear on the touchscreen or in DJI Fly. Slide down from the top of the screen and select Mute to disable all alerts, or slide the volume bar to 0 to disable some alerts.

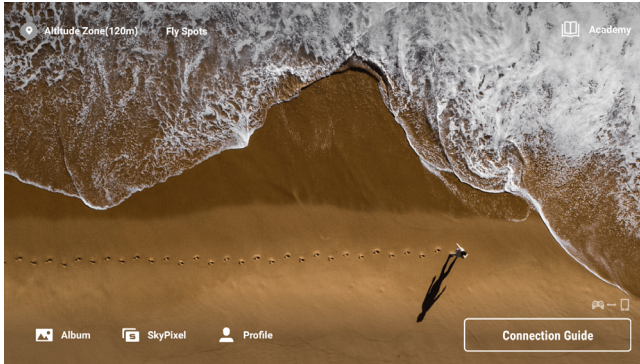
The remote controller sounds an alert during RTH. The alert cannot be canceled. The remote controller sounds an alert when the battery level of the remote controller is low (6% to 10%). A low battery level alert can be canceled by pressing the power button. The critical low battery level alert, which is triggered when the battery level is less than 5%, cannot be canceled.



- Fully charge the remote controller before each flight. The remote controller sounds an alert when the battery level is low.
- If the remote controller is powered on and not in use for five minutes, an alert will sound. After six minutes, the remote controller automatically powers off. Move the control sticks or press any button to cancel the alert.

Touchscreen

Home



Fly Spots

View or share flight and shooting locations nearby, learn more about GEO Zones, and preview aerial photos of different locations taken by other users.

Academy

Tap the icon in the top right corner to enter Academy and view product tutorials, flight tips, flight safety notices, and manual documents.

Album

View photos and videos from the aircraft and the remote controller.

SkyPixel

Enter SkyPixel to view videos and photos shared by other users.

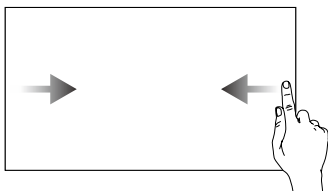
Profile

View account information and flight records, visit the DJI forum and online store, access the Find My Drone feature, offline maps, and other settings such as firmware updates, camera view, cached data, account privacy, and language.

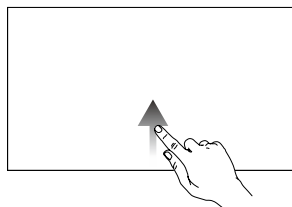


• If a microSD card is installed in the remote controller, users can choose the storage location between Internal Storage or SD Card by tapping Profile > Settings > Storage.

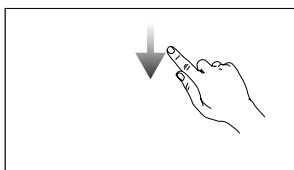
Operations



Slide from the left or right to the center of the screen to return to the previous screen.

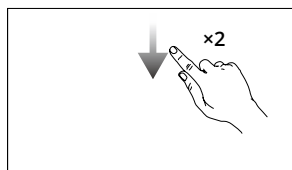


Slide up from the bottom of the screen to return to DJI Fly.



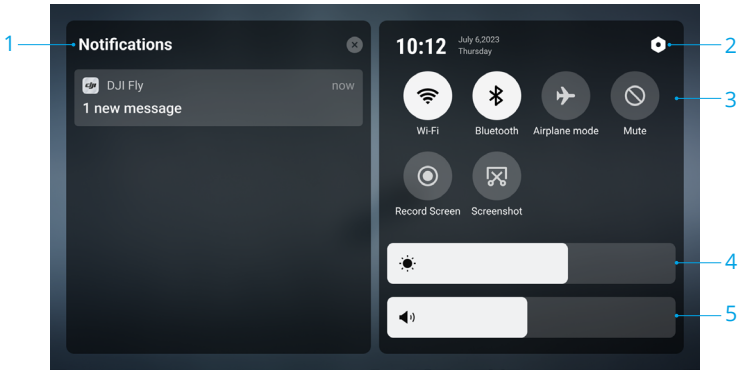
Slide down from the top of the screen to open the status bar when in DJI Fly.

The status bar displays the time, Wi-Fi signal, battery level of the remote controller, etc.



Slide down twice from the top of the screen to open Quick Settings when in DJI Fly.

Quick Settings



1. Notifications

Tap to check system notifications.

2. System Settings

Tap to access system settings and configure settings such as Bluetooth, volume, and network. Users can also view the Guide to learn more about the controls and status LEDs.

3. Shortcuts

📶 : tap to enable or disable Wi-Fi. Hold to enter settings and then connect to or add a Wi-Fi network.

📶 : tap to enable or disable Bluetooth. Hold to enter settings and connect with nearby Bluetooth devices.

✈️ : tap to enable Airplane mode. Wi-Fi and Bluetooth will be disabled.

🔕 : tap to turn off system notifications and disable all alerts.

📺 : tap to start recording the screen.

📷 : tap to take a screenshot.

4. Adjusting Brightness


Slide the bar to adjust the screen brightness.

5. Adjusting Volume

Slide the bar to adjust the volume.

Calibrating the Compass


The compass may need to be calibrated after the remote controller is used in areas with electromagnetic interference. A warning prompt will appear if the compass of the remote controller requires calibration. Tap the warning prompt to start calibrating. In other cases, follow the steps below to calibrate the remote controller.


1. Power on the remote controller, and enter Quick Settings.
2. Select System Settings , scroll down, and tap Compass.
3. Follow the on-screen instructions to calibrate the compass.
4. A prompt will be displayed when the calibration is successful.

Firmware Update

Using DJI Fly


1. Power on the remote controller and make sure it is connected to the internet.
2. A prompt will appear when new firmware is available. Tap the prompt and follow the on-screen instructions to download and update the firmware.

-
-  • Make sure the remote controller has a battery level of more than 20% before updating.
 - The update takes approximately 10 minutes (depending on network strength). Make sure the remote controller is connected to the internet during the whole update process.

-
-  • After powering on the remote controller and connecting it to the internet, users can enter the home screen of DJI Fly, tap Profile > Settings > Firmware Update > Check for Firmware Updates to check whether a new firmware is available.
-

Using DJI Assistant 2 (Consumer Drones Series)

1. Launch DJI Assistant 2 (Consumer Drones Series) on your computer and log in with your DJI account.
2. Power on the remote controller and connect it to the computer via the USB-C port.
3. Select the corresponding remote controller and click Firmware Updates.
4. Select the firmware version.
5. Wait for the firmware to download. The firmware update will start automatically.
6. Wait for the firmware update to complete.

-
-  • Make sure the remote controller has a battery level of more than 20% before updating.
 - The update takes approximately 10 minutes (depending on network strength). Make sure the computer is connected to the internet during the whole update process.
 - Do not unplug the USB-C cable during an update.
-

Appendix

Specifications

Video Transmission

Antennas	4 antennas, 2T4R
Video Transmission Operating Frequency ^[1]	2.4000-2.4835 GHz, 5.170-5.250 GHz, 5.725-5.850 GHz
Transmitter Power (EIRP)	2.4 GHz: <33 dBm (FCC), <20 dBm (CE/SRRC/MIC) 5.1 GHz: <23 dBm (CE) 5.8 GHz: <33 dBm (FCC), <14 dBm (CE), <30 dBm (SRRC)

Wi-Fi

Protocol	802.11 a/b/g/n/ac/ax
Operating Frequency ^[1]	2.4000-2.4835 GHz, 5.150-5.250 GHz, 5.725-5.850 GHz
Transmitter Power (EIRP)	2.4 GHz: <26 dBm (FCC), <20 dBm (CE/SRRC/MIC) 5.1 GHz: <23 dBm (FCC/CE/SRRC/MIC) 5.8 GHz: <23 dBm (FCC/SRRC), <14 dBm (CE)

Bluetooth

Protocol	BT 5.2
Operating Frequency	2.4000-2.4835 GHz
Transmitter Power (EIRP)	< 10 dBm

General

Model Number	RC331
Max Operating Time ^[2]	3 hours
Operating Temperature	-10° to 40° C (14° to 104° F)
Storage Temperature	Within one month: -30° to 60° C (-22° to 140° F) One to three months: -30° to 45° C (-22° to 113° F) Three to six months: -30° to 35° C (-22° to 95° F) More than six months: -30° to 25° C (-22° to 77° F)
Charging Temperature	5° to 40° C (41° to 104° F)
Charging Time	1.5 hours
Charging Type	Supports up to 9V/3A charging
Battery Capacity	22.32 Wh (3.6 V, 3100 mAh×2)
Battery Type	18650 Li-ion
Chemical System	LiNiMnCoO2
GNSS	GPS + Galileo + BeiDou
Internal Storage Capacity ^[3]	32 GB + expandable storage (via microSD card)
Screen Brightness	700 nits
Screen Resolution	1920×1080
Screen Size	5.5-inch
Screen Frame Rate	60 fps
Screen Touch Control	10-point multi-touch

Dimensions	Without control sticks: 168.4×132.5×46.2 mm With control sticks: 168.4×132.5×62.7 mm
Weight	Approx. 420 g
Supported SD Cards	UHS-I Speed Grade 3 rating microSD card or above.
Recommended microSD Cards	SanDisk Extreme PRO 64GB V30 A2 microSDXC SanDisk High Endurance 64GB V30 microSDXC Lexar 256GB V30 A2 microSDXC Samsung EVO 64GB V30 microSDXC Samsung EVO Plus 128GB V30 microSDXC Samsung EVO Plus 256GB V30 microSDXC Kingston 256GB V30 microSDXC

- [1] Operating frequency allowed varies according to country/region. Please refer to local laws and regulations for more information.
- [2] Tested in a 25° C (77° F) laboratory environment with DJI RC 2 connected to DJI Air 3 in normal flight status and recording 1080p/60fps video.
- [3] The actual available storage space is approximately 21 GB.

Aftersales Information

Visit <https://www.dji.com/support> to learn more about aftersales service policies, repair services, and support.

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<https://www.dji.com/rc-2/downloads>

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