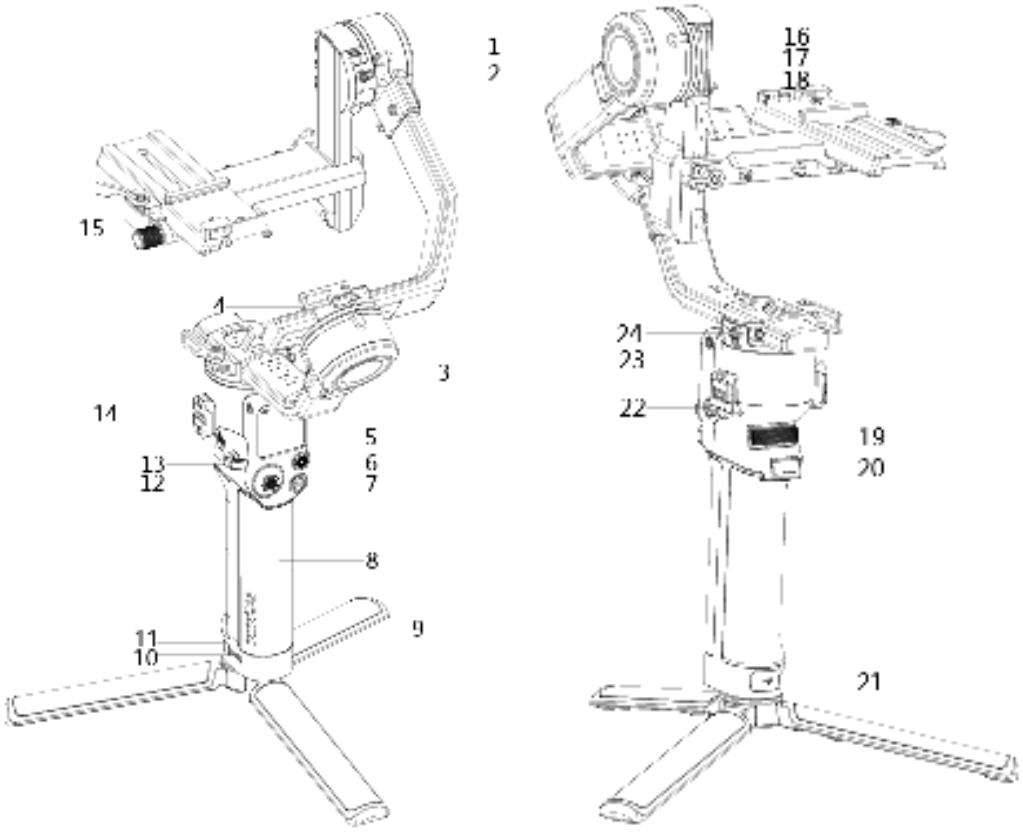
DJI RS 2 Quick Start Guide

DJI RS 2 Overview



1. Tilt Motor
2. Tilt Lock
3. Roll Motor
4. Roll Lock
5. Screen
6. Camera Control Button
7. M Button
8. Grip (with 1/4"screw hole)
9. Tripod
10. Battery Level Indicators
11. Battery Level Button
12. Joystick
13. Lever/Detach Button
14. Ronin Series Accessories (RSA) Port/Nato Port
15. Quick-Release Plate (Upper)
16. Quick-Release Plate (Lower)

17. Camera Control PortRSS (USB-C)
18. Focus Motor Port (USB-C)
19. Image Transmission/Focus Motor Port (USB-C)
20. Front Wheel
21. Trigger
22. Power Port (USB-C)
23. Power Button
24. Pan Motor
25. Pan Lock

Getting Started

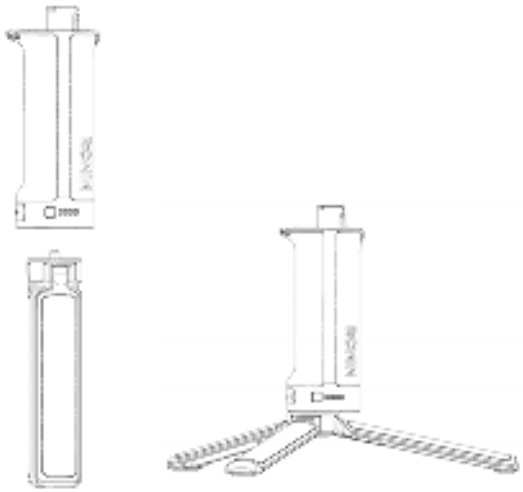
A.Downloading the DJI RONIN™ App and Watching the Tutorials

B.Charging the Battery and Checking the Battery Level

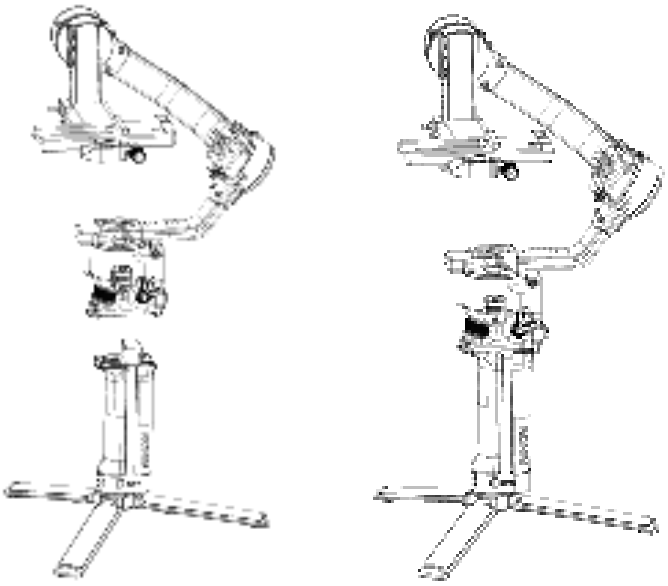
Before using for the first time, charge the grip through the power port using a power cable (included) and a USB adapter (not included). It is recommended to use a 5V/2A USB adapter.

During charging and usage, the battery level indicators indicate the battery level. When not charging, press the battery level button to check the battery level.

C.Attaching the Tripod

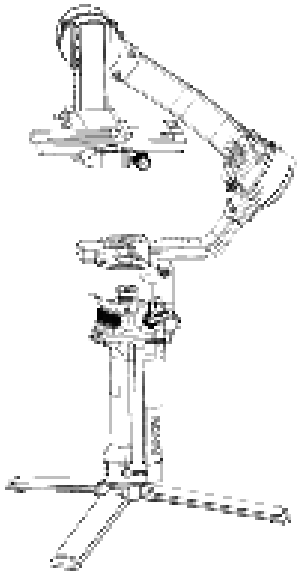


D. Mounting the Grip



Insert the gimbal into the grip as shown. Ensure the lever is in the unlocked position, and the toggle to the locked position after attaching.
To remove the grip, toggle the lever to the unlocked positon, and detach the grip while pressing down the detach button.

The gimbal is folded by default. Toggle the tilt lock, roll lock and pan lock to the unlocked positon, and then adjust the gimbal positon as shown, lock the three axes again.



E.Powering On/Off

Press and hold the power button to turn DJI RS 2 on or off.

F. Activating DJI RS 2

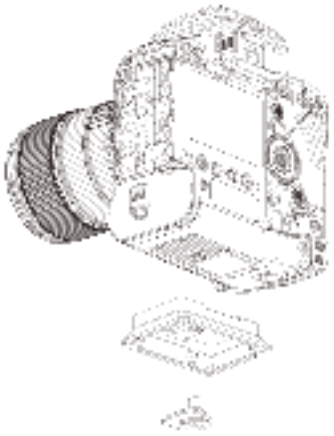
DJI RS 2 needs to be activated through the Ronin app before using for the first time.

1. Press and hold the power button to power on the gimbal.
2. Enable Bluetooth on your mobile device and launch the Ronin app. Note that a DJI account is required to launch the Ronin app. Once detected in the list of Bluetooth devices, select DJI RS 2 and input the default Bluetooth password: 12345678. Make sure you are connected to the internet and follow the on-screen instructions to activate DJI RS 2.

Mounting the Camera

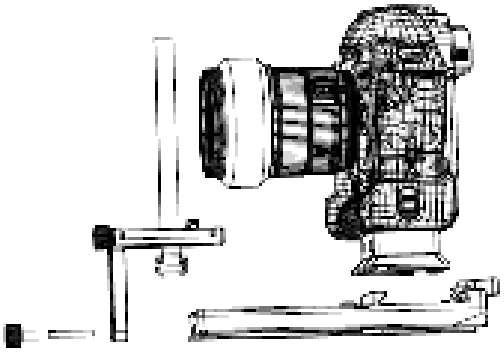
Make sure to prepare the camera before mounting it to DJI RS 2. Remove the lens cap and make sure the battery and memory card are inserted in the camera.

1. Attach the Upper Quick-Release Plate.
   The camera lens and the arrow on the bottom of the upper quick-release plate must face the same direction. Attach the upper quick-release plate to the camera by tightening the screw.

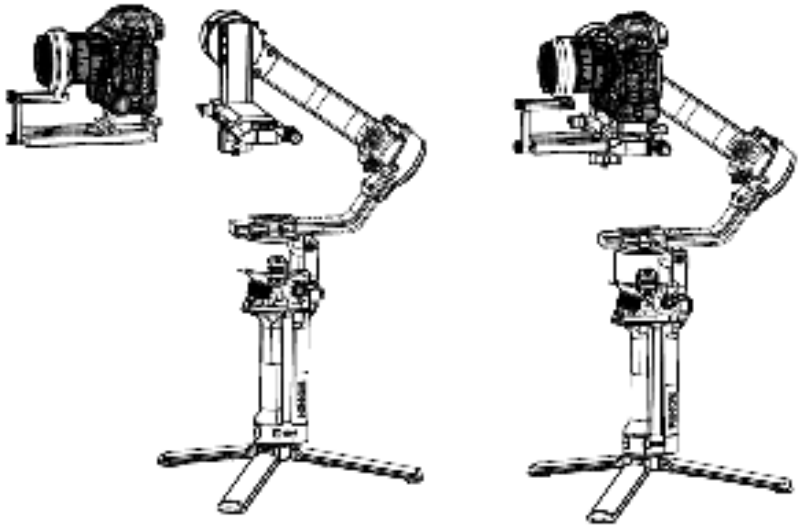


* Riser plate is required when using a focus motor.

2. Attach the Lower Quick-Release Plateand lens support.
   Toggle the lever on the Lower Quick-Release Plate to the unlocked position and then insert the camera, toggle the lever to the lock positon after engaged. Attach the lens support to the lower quick-release plate, and bind the strap to the camera lens.



   To remove the camera from the lower quick-release plate, toggle the lever to the unlocked position, and remove the camerawhile pressing the safety lock beside the lever.
3. Attach the camera to the gimbal.
   Toggle the lever on the camera mounting plate to the unlocked positon, and insert the lower quick-release plate. Toggle the lever to the lock position when camera achieve a rough balance.



To remove the lower quick-release plate, toggle the lever to the unlocked position, and remove the lower quick-release plate while pressing the safety lock on the mounting plate.

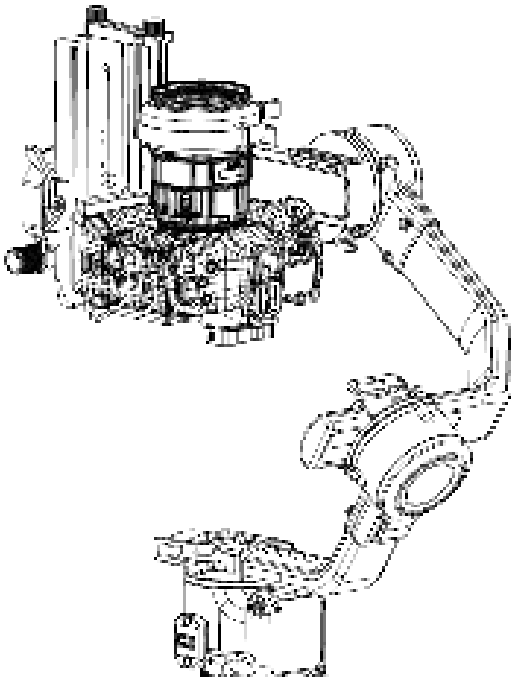
4. Connect the camera control cable.

Choose a proper camera control cable according the camera type. Plug one end of the cable 连接 into the RSS port of the gimbal and plug the other end into the camera.

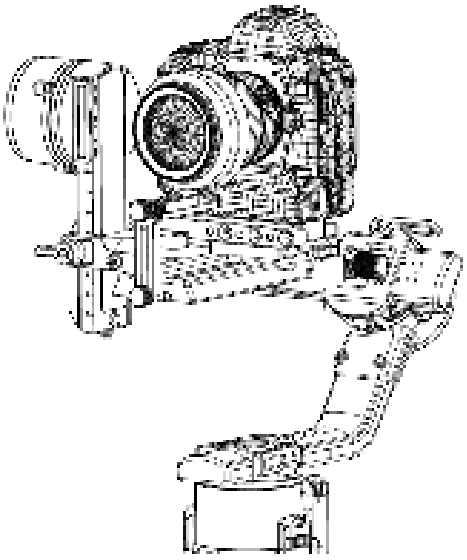
Balancing

Balancing is required before shooting. Before balancing, make sure to power on the camera if using an optical zoom lens and to select the focal length if using a varifocal lens. Make sure DJI RS 2 is powered off or in sleep mode before balancing.

1. Balancing the vertical tilt
   a. Unlock the tilt axis, and loosen the mounting plate knob.
   b. Rotate the tilt axis so that the camera lens is pointing upward. Check to make sure the camera is not top or bottom-heavy. If top-heavy, move the camera backward. If bottom-heavy, move the camera forward.
   c. Tighten the knob. The vertical tilt is balanced until the camera is steady while pointing upward.



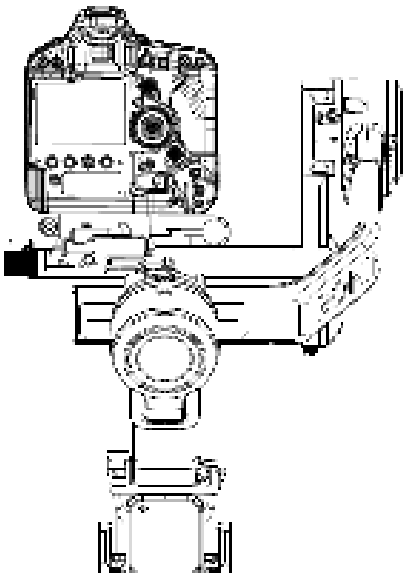
2. Balancing depth for the tilt axis
   a. Rotate the tilt axis so that the camera lens is pointing forward. Toggle the lever to the unlocked position.
   b. Check to make sure the camera is not front or back-heavy. If front-heavy, move the camera backward by turning the knob. If back-heavy, move the camera forward.
   c. Toggle the lever to the locked positon. The Tilt axis is balanced if the camera is steady while tilting up or down for 45 degrees.
   d. Lock the tilt axis.



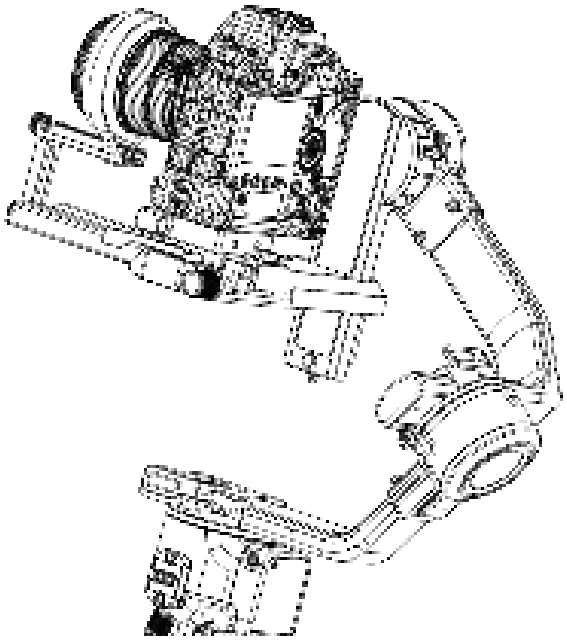
3. Balancing the roll axis
   a. Unlock the roll axis. Toggle the lever on the roll arm to the unlocked positon.
   b. Check the direction in which the roll motor swings. If the camera rotates to the left, move the camera to the right. If the camera rotates to the right, move the camera to the left.

c. Toggle the lever on the roll arm to the locked positon. The roll axis is balanced if the camera is steady.

d. Lock the roll axis.



4. Balancing the pan axis
   a. Unlock the pan axis. Toggle the lever on the pan arm to the unlocked positon.
   b. Hold the grip, tilt DJI RS 2 forward, and adjust the pan arm to parallel to you. Check the movement of the pan axis. If the camera lens rotates to the left, push the pan axis to the right. If the camera lens rotates to the right, push the pan axis to the left.
   c. Toggle the lever on the pan arm to the locked positon. The pan axis is balanced if the camera is steady when rotating the pan while lifting the grip.



Operation

Touch Scree

After installation, activation, and balancing, DJI RS 2 must be auto-tuned before it can be used. Make sure the three axes are all unlock before powering on.
Home: tap gimbal calibration to start auto tune, and check the balance status, select follow mode and follow speed by tapping the icons.

Slide to the right to select shooting modes, slide to the left to set system settings, and slide up to enter joystick and front wheel settings page, slide down to view the image transmission.

Button Feature
Power Button: press and hold the power button to turn the DJI RS 2 on or off. Tap or press twice on the power button to enter or exit sleep mode.

Battery Level Button: press once to check battery level.

Trigger: press once to start ActiveTrack. press and hold the trigger to enter Lock mode. Press twice to recenter the gimbal. Press three times to turn the gimbal 180° so that the camera faces you.

M Button: tap to select a user profile. Press and hold to enter Sport mode. Press and hold while press twice on the trigger to stay in Sport mode. Press twice to enter portrait mode. Press three times to enter Roll 360. Press and hold the M button which holding on the trigger to begin auto tune.

Camera Control Button: after connecting the camera control port and camera, press halfway for autofocus, as you would the shutter button on a camera. Press to start or stop recording. Press and hold to take a photo.

Joystick: push the joystick up or down to control the movement ofthe tilt axis, and push it left or right to control the movement of thepan axis. Go to the Joystick page of the Ronin app to adjust theparameters for the pan, tilt, and roll axes.

Front Wheel:turn the wheel to control focus.

Ronin App

Use the Ronin app for more features, such as gimbal and camera settings, force mobile.

Specifications

Weight	Gimbal：Approx.1,062g(excl.quick-release plate) BG30 Grip：Approx.265g Extended Grip/Tripod: Approx.226g Quick-Release Plate:Approx.105g
Dimensions	Gimbal unfolded：444.5mm*193.5mm*264.5mm
Input Power	Model：BG30-1950mAh-15.4V Capacity：1950 mAh Energy：30.03 Wh Voltage：12 V-17.6V
Operating Current	Static Current：0.2 A
USB Input	5V/2A 9V/2A 12V/2A 15V/1.6A
Bluetooth Operating Frequency	2.402 GHz -2.48GHz
Operating Temperature	-20℃ to 45℃
Max. Standby Time	11 hours

FCC Compliance Notice

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

— Reorient or relocate the receiving antenna.
— Increase the separation between the equipment and receiver.
— Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
— Consult the dealer or an experienced radio/TV technician for help.

RF Exposure Information

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End user must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

ISED Compliance Notice

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions: (1)This device may not cause interference.(2)This device must accept any interference, including interference that may cause undesired operation of the device. L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :(1)L'appareil ne doit pas produire de brouillage; (2)L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. End user must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Cet équipement est conforme aux limites d'exposition aux rayonnements ISED établies pour un environnement non contrôlé. L'utilisateur final doit suivre les instructions spécifiques pour satisfaire les normes. Cet émetteur ne doit pas être co-implanté ou fonctionner en conjonction avec toute autre antenne ou transmetteur.