

DJI CP.RN.00000040.01

DJI Ronin-SC 3-Axis Camera Stabilizer User Manual

Model: CP.RN.00000040.01

1. INTRODUCTION

The DJI Ronin-SC is a 3-axis camera stabilizer designed for mirrorless cameras. It supports a payload of up to 2 kg (4.4 lbs), enabling smooth, cinematic footage. Its lightweight and compact design makes it suitable for various filming environments.

Key features include:

- **Lightweight and Compact Design:** Engineered for portability and ease of use in diverse situations.
- **Dynamic Stability:** Provides consistent stabilization for smooth shots, even during rapid movements or changes in direction.
- **Automated Features:** Includes advanced capturing capabilities such as Panorama and Timelapse.
- **Unobstructed Roll Axis:** An innovative axis arm design positions the camera payload above the roll axis, ensuring the camera's built-in display remains visible.
- **Ergonomic Handling:** Features easily accessible buttons and a flared battery grip for comfortable, extended use.

2. WHAT'S IN THE BOX

Verify that all components are present upon unboxing your DJI Ronin-SC.



Image: All components included in the DJI Ronin-SC package, neatly arranged in its carrying case.

- DJI Ronin-SC × 1
- BG18 Grip (Built-in Battery) × 1
- Extended Grip/Tripod (Plastic) × 1
- Quick-Release Plate × 1
- Camera Riser × 1
- Carrying Case × 1
- Phone Holder × 1
- Lens Support × 1
- 8-pin Port Cover × 2
- Wrench × 2
- Camera Screw 1/4"-20 × 3
- Multi-Camera Control Cable (Multi-USB) × 1
- Multi-Camera Control Cable (Type-C) × 1
- USB-C Cable × 1
- Multi-Camera Control Adapter (Type-C To Micro USB) × 1

- Screw M4 × 4

3. SETUP AND BALANCING

Proper setup and balancing are crucial for optimal performance of the Ronin-SC.

3.1 Attaching the Camera

1. Attach the quick-release plate to the bottom of your camera using the 1/4"-20 screw. Ensure it is securely fastened.
2. If your camera requires additional height for lens clearance or optimal balance, use the camera riser between the camera and the quick-release plate.
3. Slide the camera assembly onto the gimbal's mounting plate. Lock it in place using the safety latch.



Image: A DJI Ronin-SC with a mirrorless camera attached, ready for balancing.

3.2 Balancing the Gimbal

Balancing involves adjusting the camera's position on each of the three axes (tilt, roll, and pan) to ensure it remains level when powered off. This reduces motor strain and extends battery life.

1. **Tilt Axis Balance:** Unlock the tilt axis. Adjust the camera's forward/backward position on the quick-release plate until the camera lens stays horizontal without tilting up or down. Then, adjust the vertical arm until the camera remains stable when tilted up or down.
2. **Roll Axis Balance:** Unlock the roll axis. Adjust the horizontal arm until the camera remains level without rolling to either side.
3. **Pan Axis Balance:** Unlock the pan axis. Hold the gimbal horizontally and adjust the pan arm until the gimbal remains stable without rotating.

Use the axis locks on each arm for faster storage and individual axis balancing. When powering off, the motors gradually power down the gimbal, ensuring reliability.

3.3 Powering On and App Connection

1. Press and hold the power button on the BG18 grip to turn on the Ronin-SC.
2. Download and install the DJI Ronin app on your mobile device.
3. Connect your mobile device to the Ronin-SC via Bluetooth. The app provides detailed settings, calibration, and access to intelligent features.

4. OPERATING INSTRUCTIONS

The Ronin-SC offers various modes and features to enhance your videography.

4.1 Gimbal Modes and Controls

The Ronin-SC features intuitive controls for seamless operation. The buttons and trigger are easily accessible for essential functions.



Image: A user operating the DJI Ronin-SC, utilizing a smartphone for monitoring and control.

4.2 Intelligent Features

Utilize the DJI Ronin app to access advanced capturing features:



Image: A professional shot captured with the DJI Ronin-SC, demonstrating its capability for creative videography.

5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your Ronin-SC.

- **Cleaning:** Use a soft, dry cloth to clean the gimbal. Avoid using liquid cleaners or solvents.
- **Storage:** Store the Ronin-SC in its carrying case in a dry, cool environment when not in use. Engage all axis locks before storage.
- **Firmware Updates:** Regularly check for and install firmware updates via the DJI Ronin app. These updates often include performance improvements and new features.
- **Battery Care:** Charge the battery fully before long-term storage and recharge every three months to maintain battery health.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your Ronin-SC.

6.1 Gimbal Not Balancing Correctly

- **Check Balance:** Re-verify that all three axes (tilt, roll, pan) are perfectly balanced. The camera should remain stationary in any position when the gimbal is powered off.
- **Payload:** Ensure your camera and lens combination does not exceed the 2 kg (4.4 lbs) payload limit. For lighter setups, counterweights may be required for optimal balance.
- **Firmware:** Ensure the gimbal firmware is up to date.

6.2 Motor Vibrations or Overheating

- **Improper Balance:** This is the most common cause. Re-balance the gimbal meticulously.
- **Motor Power:** Adjust motor power settings in the DJI Ronin app. If the gimbal is well-balanced, lower motor power may be sufficient.
- **Obstructions:** Ensure no cables or camera accessories are obstructing the gimbal's movement.

6.3 Connectivity Issues with Ronin App

- **Bluetooth:** Ensure Bluetooth is enabled on your mobile device and the Ronin-SC.
- **App Version:** Update the DJI Ronin app to the latest version.
- **Restart:** Try restarting both the gimbal and your mobile device.

7. TECHNICAL SPECIFICATIONS

Specification	Detail
Product Dimensions	14.57 x 6.5 x 5.91 inches (Unfolded) / 22×20×7.5 cm (Folded)
Item Weight	2.73 pounds (1.24 Kilograms)
Payload Capacity	Up to 2 kg (4.4 lbs)
Model Number	CP.RN.00000040.01
Batteries	1 CR5 battery required (Built-in BG18 Grip)
Color	Black
Manufacturer	DJI
Date First Available	April 26, 2019

8. CAMERA COMPATIBILITY

The DJI Ronin-SC is compatible with a wide range of mirrorless cameras. Below is a list of commonly supported models:

2kg Tested Payload, Greater Compatibility



Image: The DJI Ronin-SC demonstrating compatibility with multiple camera brands.

- **Canon:** EOS M50, M6 Mark II, R, RP
- **Fujifilm:** X-E3, X-H1, X-T2, X-T20, X-T3, X-T30
- **Nikon:** Z50, Z6, Z7
- **Panasonic:** G9, G95, GH3, GH4, GH5, GH5S
- **Sony:** A6000, A6100, A6300, A6400, A6500, A6600, A7, A7M2, A7M3, A7R2, A7R3, A7R4, A7S, A7S2, A9, Rx10 III, Rx10 IV, RX100 V, Rx100 VI, Rx100 VII

Note: Firmware updates may expand compatibility. Always refer to the official DJI website for the most current compatibility list and specific control cable requirements for your camera model.

9. SUPPORT AND RESOURCES

For further assistance and detailed information, please refer to the following resources:

- **Official User Manual (PDF):** [Download PDF](#)
- **DJI Official Website:** Visit the [DJI website](#) for product support, FAQs, and the latest firmware.

9.1 Warranty Information








DJI products typically come with a limited warranty. For specific warranty terms and conditions, including coverage duration and service procedures, please consult the warranty card included with your product or visit the official DJI support page.

9.2 Official Product Videos

No official product videos from the seller were found in the provided data to embed in this manual.

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Related Documents - CP.RN.00000040.01

<div><p>DJI RS 3 User Manual</p></div> <div></div>	<p>DJI RS 3 User Manual: Setup, Operation, and Features</p> <p>Comprehensive user manual for the DJI RS 3, a professional 3-axis gimbal stabilizer. Learn about setup, activation, camera mounting, operation modes, and maintenance for mirrorless cameras.</p>
<div><p>RONIN-SC User Manual</p></div> <div></div> <div></div>	<p>DJI Ronin-SC User Manual</p> <p>A comprehensive user manual for the DJI Ronin-SC 3-axis gimbal stabilizer, detailing setup, balancing, operation modes, app features, safety guidelines, and specifications for professional videography and photography.</p>
<div><p>DJI LiDAR Range Finder</p><div><p>Product Information</p><p>Product Overview</p><p>Product Features</p><p>Product Specifications</p><p>Product Safety</p><p>Product Maintenance</p><p>Product Troubleshooting</p><p>Product Accessories</p><p>Product Warranty</p><p>Product Support</p></div><div></div></div> <div></div>	<p>DJI LiDAR Range Finder User Manual</p> <p>User manual for the DJI LiDAR Range Finder, detailing its specifications, installation, connection, and usage with the DJI Ronin 4D gimbal camera for enhanced autofocus capabilities. Learn more at dji.com.</p>

