DJI Ronin-S

DJI Ronin-S Essentials Kit User Manual

3-Axis Camera Stabilizer for DSLR and Mirrorless Cameras

1. INTRODUCTION

The DJI Ronin-S Essentials Kit is a powerful 3-axis camera stabilizer designed to provide smooth, cinematic footage for DSLR and mirrorless cameras. It supports a payload of up to 8 lbs (3.6 kg), making it compatible with a wide range of camera models from brands like Canon, Fujifilm, Nikon, Panasonic, and Sony. Its modular design enhances portability, allowing for easy transport and quick setup.

Figure 1: DJI Ronin-S with a camera mounted, ready for operation.

2. WHAT'S IN THE BOX

The Ronin-S Essentials Kit includes the following components:

- DJI Ronin-S Gimbal
- BG37 Grip (Built-in Battery)
- Camera Mounting Plate
- 3x Camera Screw 1/4"-20
- Lens Support
- Camera Riser
- USB-C Cable
- Hook-and-Loop Strap for gimbal
- Storage Case
- Extended Grip/Tripod (Plastic)

Figure 2: All components included in the DJI Ronin-S Essentials Kit.

Accessories		Standard Kit	Essentials Kit
	Gimbal	× 1	
	BG37 Grip (Built-in Battery)	× 1	
	Camera Mounting Plate	× 1	
	Camera Screw 1/4"-20	× 3	
	Lens Support	× 1	
	Camera Riser	× 1	
	USB-C Cable	× 1	
	Hook-and-Loop Strap for gimbal	× 1	
	Storage Case	× 1	
	Focus Wheel	× 1	/
	RSS IR Control Cable	× 1	/
	Multi-Camera Control Cable (Type-C)	× 1	/
	Multi-Camera Control Cable (Type-B)	× 1	/
	Extended Grip/Tripod (Metal)	× 1	/
	Extended Grip/Tripod (Plastic)	/	× 1
	24W USB Power Adapter (Varies by region)	× 1	/
	Accessories Box	× 1	/
	Allen Wrench	× 2	/
	Hook-and-Loop Strap for cable	× 1	/

Figure 3: Detailed comparison of accessories in Standard vs. Essentials Kits.

3. SETUP

Proper setup and balancing are crucial for optimal performance of your Ronin-S. While the process can be intricate initially, detailed tutorials are available online to guide you through each step.

3.1 Mounting the Camera

1. Attach your DSLR or mirrorless camera to the Camera Mounting Plate using the provided 1/4"-20 screws.
2. If necessary, use the Camera Riser for proper lens clearance.
3. Secure the Lens Support to prevent lens movement.
4. Slide the assembled camera and plate onto the gimbal's quick-release plate system. Ensure it is securely locked.

3.2 Balancing the Gimbal

Balancing involves adjusting the camera's position on each of the three axes (tilt, roll, and pan) until the camera remains level and stable when the motors are off. This minimizes motor strain and ensures smooth operation. Refer to the DJI Ronin-S official tutorials for a step-by-step balancing guide.

3.3 Connecting to the DJI Ronin App

The DJI Ronin App (requires iOS 9.0, Android 5.0 or above) is essential for fine-tuning settings, performing auto-tuning, and accessing advanced features. Connect your Ronin-S to your smartphone via Bluetooth and follow the in-app instructions for initial calibration and configuration.

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Video 1: Official DJI Ronin-S product video demonstrating setup, features, and usage scenarios.

4. OPERATING

The Ronin-S is designed for intuitive operation, offering various modes and controls to capture dynamic shots.

4.1 Basic Operation

Once balanced and powered on, the Ronin-S will automatically stabilize your camera. Use the joystick on the grip to control pan and tilt movements. The mode button allows you to switch between different operating modes, such as upright, underslung, and flashlight mode.

4.2 Advanced Features

The Ronin-S offers a suite of advanced capturing features accessible via the DJI Ronin App:

- **Panorama:** Capture panoramic photos with automated movements.
- **Timelapse:** Create stunning timelapse videos with precise camera movements over time.
- **Motionlapse:** Combine timelapse with dynamic camera motion for unique visual effects.
- **Track:** Program a specific path for the gimbal to follow, ensuring repeatable and precise shots.

4.3 Connectivity and Accessories

The Ronin-S features multiple ports for expanded functionality:

- **8-pin Connector:** Provides direct start/stop control for compatible cameras.
- **4-pin Connectors (12V/2A):** Support hardware options like an external focus motor and onboard power for the camera.
- **4-pin Receiver Port:** Grants universal connectivity with third-party controllers for remote operation, such as the DJI Force Pro and Master Wheels.

The detachable battery design also allows for versatile mounting options, including vehicle mounts, expanding creative possibilities.

5. MAINTENANCE

To ensure the longevity and optimal performance of your DJI Ronin-S, follow these maintenance guidelines:

- **Cleaning:** Regularly wipe down the gimbal with a soft, dry cloth. Avoid using harsh chemicals or abrasive materials.
- **Storage:** Store the Ronin-S in its dedicated storage case when not in use to protect it from dust, moisture, and physical damage.
- **Battery Care:** Charge the BG37 Grip (built-in battery) using the provided USB-C cable and charging plug. Avoid overcharging or completely draining the battery for extended periods.
- **Firmware Updates:** Periodically check the DJI Ronin App for firmware updates to ensure your gimbal has the latest features and performance enhancements.

6. TROUBLESHOOTING

If you encounter issues with your DJI Ronin-S, consider the following common troubleshooting steps:

- **Gimbal Not Stabilizing** / **Losing Horizon:** This is often due to improper balancing. Re-balance your camera carefully on all three axes. Perform an auto-tune via the DJI Ronin App.
- **App Connectivity Issues:** Ensure Bluetooth is enabled on your mobile device and the Ronin-S is powered on. Try restarting both the gimbal and the app. Verify that your app version is up to date.
- **Motors Overheating** / **Vibrating:** This can indicate an unbalanced setup or an overloaded payload. Ensure your camera setup is within the 8 lbs (3.6 kg) payload limit and is perfectly balanced.
- **Camera Control Not Working:** Check all cable connections between the camera and the gimbal. Ensure your camera model is compatible with the Ronin-S's control features and that the correct camera control cable is being used.
- **Power Issues:** Ensure the battery is fully charged. If the gimbal does not power on, try charging it for an extended period.

For persistent issues, consult the official DJI support resources or online community forums for detailed guides and solutions. Many users find video tutorials helpful for complex setup and balancing procedures.

7. SPECIFICATIONS

Feature	Specification
Brand	DJI
Model Name	Dji Ronin S Essentials Kit
Color	Multicoloured

Feature	Specification
Maximum Weight Recommendation	8 Pounds (3.6 kg)
Item Weight	1.81 Kilograms
Product Dimensions (D x W x H)	7.1"D x 7.3"W x 8"H
Compatible Devices	Camera, Cellphone, Tablet
Image Stabilization	Yes
Shooting Modes	Panorama, Time-Lapse
Water Resistance Level	Not Water Resistant
Video Capture Format	MP4, MOV, AVI
Light Sensitivity	100-6400
Has Self-Timer	Yes
Audio Recording	No
UPC	190021329461

8. WARRANTY AND SUPPORT

The DJI Ronin-S Essentials Kit comes with a standard manufacturer's warranty. For specific details regarding warranty coverage, duration, and terms, please refer to the official DJI website or the warranty card included with your product.

For technical support, product registration, or to access additional resources, please visit the official DJI support page. The DJI Ronin App also provides in-app support and troubleshooting guides.