

DJI RS 3 Pro

DJI RS 3 Pro 3-Axis Gimbal Instruction Manual

Model: RS 3 Pro | Brand: DJI

1. INTRODUCTION

The DJI RS 3 Pro is an advanced, comprehensive camera expansion platform designed for videographers and professional crews. It inherits powerful features from the Ronin series to provide coordinated shooting solutions.

Key Features

- **Automated Axis Locks:** The three axes of DJI RS 3 Pro can be automatically locked and unlocked with a single press of the power button, enhancing efficiency for transitions and storage.
- **Extended Carbon Fiber Axis Arms:** Provides ample leveling space for professional cameras, supporting combinations like Sony FX6 and Canon C70 with 24-70 mm F2.8 lenses.
- **4.5 kg (10lbs) Tested Payload:** With a weight of just 1.5 kg (gimbal, battery handle, quick-release plates included), it supports a maximum tested payload of 4.5 kg.
- **Long-Range O3 Pro Video Transmission:** Supports 6km/20,000ft video and audio transmission with ultra-low latency and stability.
- **Dynamic & Versatile Solution:** Extensive ports and DJI RS SDK protocol allow connection to various accessories and compatibility with vehicle mounts, jibs, and Steadicams.



Figure 1: The DJI RS 3 Pro Gimbal with a camera attached, ready for operation.

2. WHAT'S IN THE BOX

The DJI RS 3 Pro package includes the following components:

- Gimbal ×1
- Carrying Case ×1
- BG30 Grip ×1
- USB-C Charging Cable (40 cm) ×1
- Lens-Fastening Support (Extended) ×1
- Extended Grip/Tripod (Metal) ×1
- Quick-Release Plate (Arca-Swiss/Manfrotto) ×1
- Briefcase Handle ×1
- Multi-Camera Control Cable (USB-C, 30 cm) ×1
- Screw Kit ×1

The combo additionally includes Ronin Image Transmitter, Focus Motor (2022), Lower Quick-Release Plate (Extended),

and other accessories.

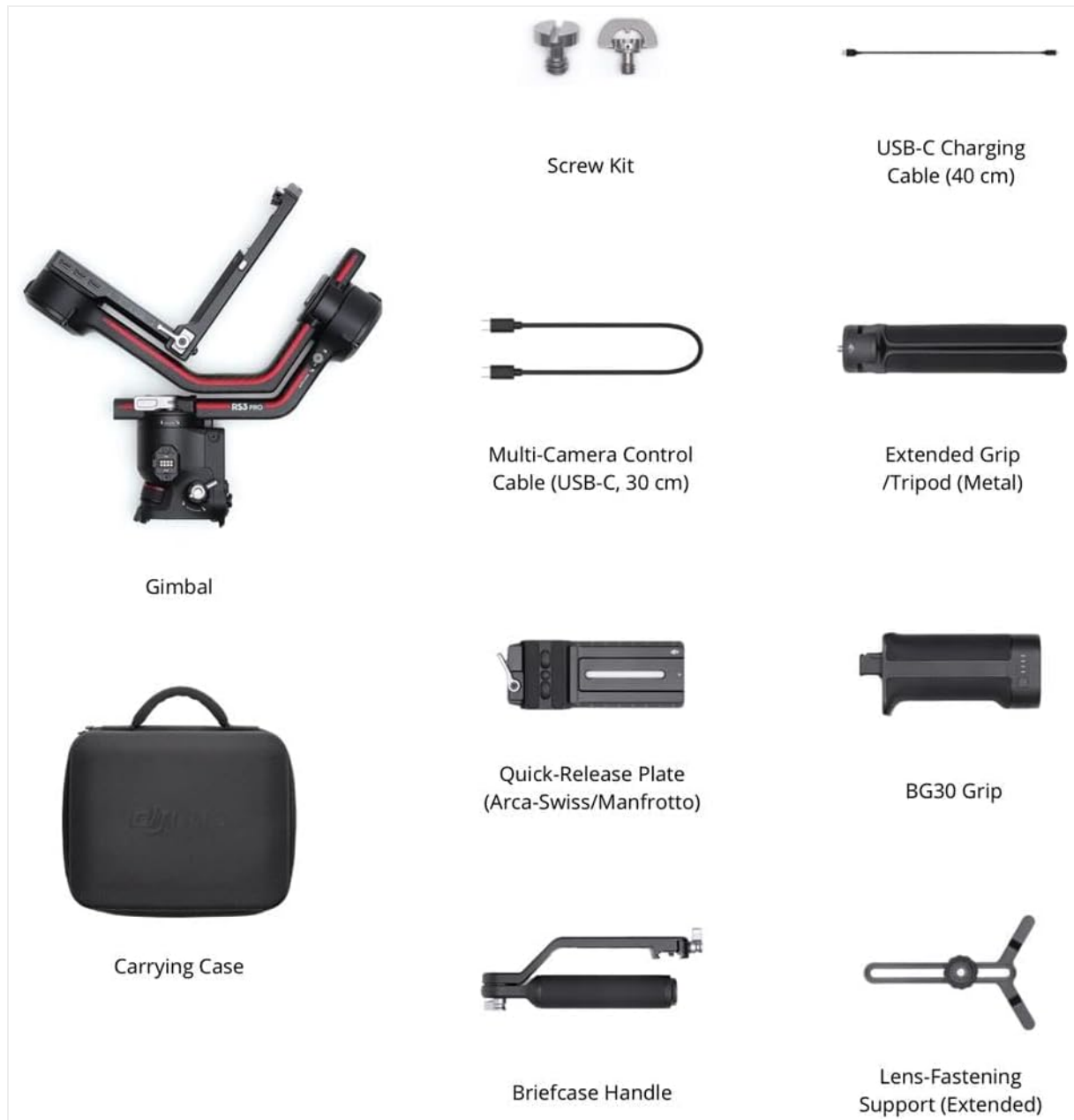


Figure 2: All components included in the DJI RS 3 Pro package, laid out for identification.

3. SETUP

3.1 Automated Axis Locks

The three axes of the DJI RS 3 Pro can be automatically locked and unlocked by pressing the power button. This feature significantly improves the speed and efficiency of transitions and storage.

Automated Axis Locks

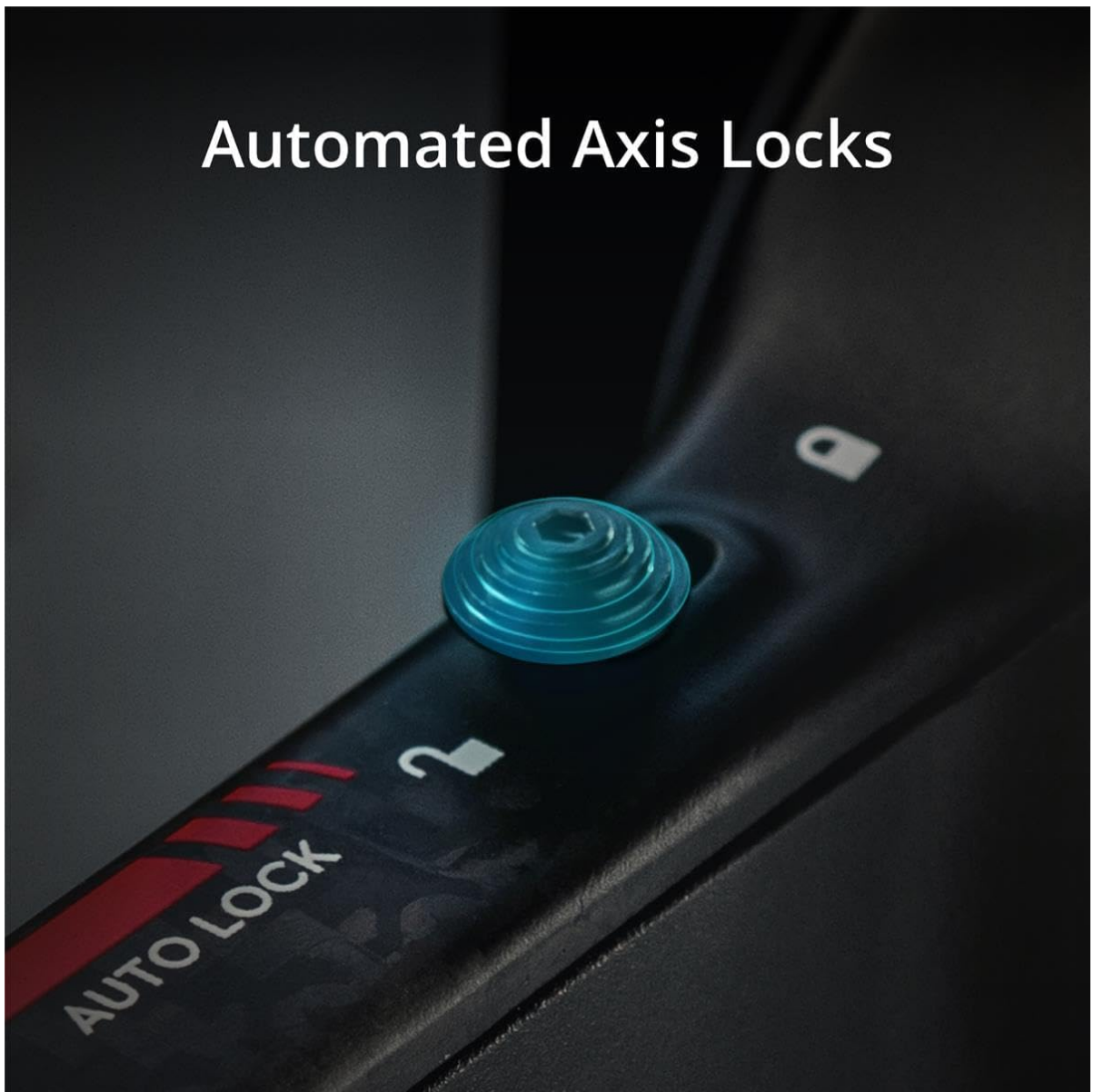


Figure 3: Automated Axis Locks button for quick setup and storage.

3.2 Extended Carbon Fiber Axis Arms

The extended carbon fiber axis arms provide more sufficient leveling space for professional cameras. They are constructed from layered sheets of uncut carbon fiber to improve stiffness and reduce weight, allowing for heavier payloads.

Extended Carbon Fiber Axis Arms



Figure 4: Extended carbon fiber axis arms provide greater balancing space for larger camera setups.

3.3 Balancing the Gimbal

Balancing is made easier with the addition of a fine-tuning knob for the tilt axis. This allows for precise forward or backward movement of the camera, down to the millimeter, ensuring optimal balance.

3.4 Bluetooth Pairing

Thanks to Bluetooth pairing, you can press record on your camera directly from the gimbal. A previously paired camera will automatically reconnect, saving time with every subsequent use.

4. OPERATING INSTRUCTIONS

4.1 Touchscreen Menu

The DJI RS 3 Pro features a large built-in 1.8-inch OLED full-color touchscreen. This increases the screen size by 28% compared to previous models, making it convenient for setting parameters, checking shooting status, and framing subjects.

Video 1: Demonstrates the intuitive touchscreen menu for various settings and controls.

4.2 Gimbal Modes

A physical switch allows for easy toggling between Pan Follow, Pan Tilt Follow, and FPV modes.

4.3 SuperSmooth Mode

SuperSmooth mode is designed for fast-moving scenarios. When enabled, it increases the torque of the DJI RS 3 Pro to further enhance stabilization, delivering stable footage in dynamic and strenuous shooting conditions, especially when using longer focal length lenses.

4.4 LiDAR Focusing and ActiveTrack Pro

The LiDAR focusing system simplifies focusing and enables autofocus on manual lenses when paired with the focus motor. It supports ActiveTrack Pro for advanced tracking. The LiDAR Range Finder can project 43,200 ranging points within a 14-meter distance. It also features a built-in camera with an equivalent focal length of 30mm and a wide field of view of 70 degrees. This system does not rely on the surface texture of the subject, making it useful in low-light or complex scenarios with multiple subjects.



Video 2: Explains the functionality and benefits of the DJI RS 3 Pro's LiDAR Range Finder.

4.5 Long-Range O3 Pro Video Transmission

The DJI RS 3 Pro supports 6km/20,000ft video and audio transmission with ultra-low latency, impressive stability, and extensive coordinated control features. The DJI Video Transmitter can be powered directly by the RS 3 Pro and mounts conveniently via a cold shoe without the need for an additional battery, reducing the burden for handheld setups.

5. SPECIFICATIONS

Product Dimensions	16.34 x 8.58 x 7.68 inches
Item Weight	3.83 pounds (1.74 Kilograms)
Item Model Number	CP.RN.00000219.01
Batteries	1 CR5 battery required (included)
Date First Available	June 15, 2022
Manufacturer	DJI
Compatible Devices	Camera
Folded Size	26.8×27.6×6.8 cm

6. MAINTENANCE

To ensure optimal performance and longevity of your DJI RS 3 Pro, regular maintenance is recommended. Keep the gimbal clean and free from dust and debris. Store it in its carrying case when not in use to protect it from physical damage and environmental factors. Periodically check all screws and connections to ensure they are secure.

7. TROUBLESHOOTING

7.1 Accessory Compatibility

For information on interchangeable accessories among DJI RS 3 Pro, DJI RS 3, DJI RS 2, and DJI RSC 2, please refer to the DJI RS Series Universal Accessories List in the appendix of the official user manual.

7.2 SuperSmooth vs. Normal Stabilization

SuperSmooth mode is specifically developed for fast-moving scenarios. It increases the torque of DJI RS 3 Pro to further

enhance stabilization, delivering stable footage in more dynamic and strenuous shooting scenarios compared to normal stabilization.

7.3 General Issues

If you encounter unexpected behavior such as axis locking issues or uncontrollable gimbal shaking, ensure the gimbal is perfectly balanced. If problems persist, consult the official DJI support resources or consider DJI Care for service.

8. WARRANTY AND SUPPORT

For detailed warranty information, technical support, and service inquiries, please visit the official DJI website or contact DJI customer service. An official warranty is provided, offering one-stop technical support.

Visit the [DJI Store](#) for more products and support resources.