

Manuals.plus /

› SKYROVER /

› Skyrover S1 Mini Drone Combo with Camera Instruction Manual

## SKYROVER S1

# Skyrover S1 Mini Drone Combo with Camera Instruction Manual

Model: S1 | Brand: SKYROVER

## INTRODUCTION

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The Skyrover S1 Mini Drone Combo is a high-performance, ultra-lightweight drone designed for capturing stunning aerial photography and videography. Weighing under 249g, it offers exceptional portability and ease of use, making it suitable for both beginners and experienced pilots. Featuring a 4K/60fps camera with a 1/2" Sony sensor for 48MP photos, a 3-axis gimbal for stable footage, and advanced intelligent flight modes, the S1 ensures professional-quality results. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your Skyrover S1 drone.



Image: Skyrover S1 Mini Drone flying over a scenic mountain landscape, illustrating its ease of flight.

## WHAT'S IN THE BOX

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The Skyrover S1 Mini Drone Combo (Fly More Combo) package includes the following items:

- Skyrover S1 Mini Drone x 1
- Skyrover Basic Remote Controller x 1
- Skyrover S1 Smart Flight Battery x 3
- Skyrover S1 Battery Hub x 1
- Skyrover S1 Gimbal Lock x 1
- Skyrover S1 Shoulder Bag x 1
- Skyrover S1 Propeller pair x 5
- Propeller Screw x 10
- USB-C Data Cable x 1
- Lightning Adapter Cable x 1
- Type-C Adapter Cable x 1
- User Manual x 1

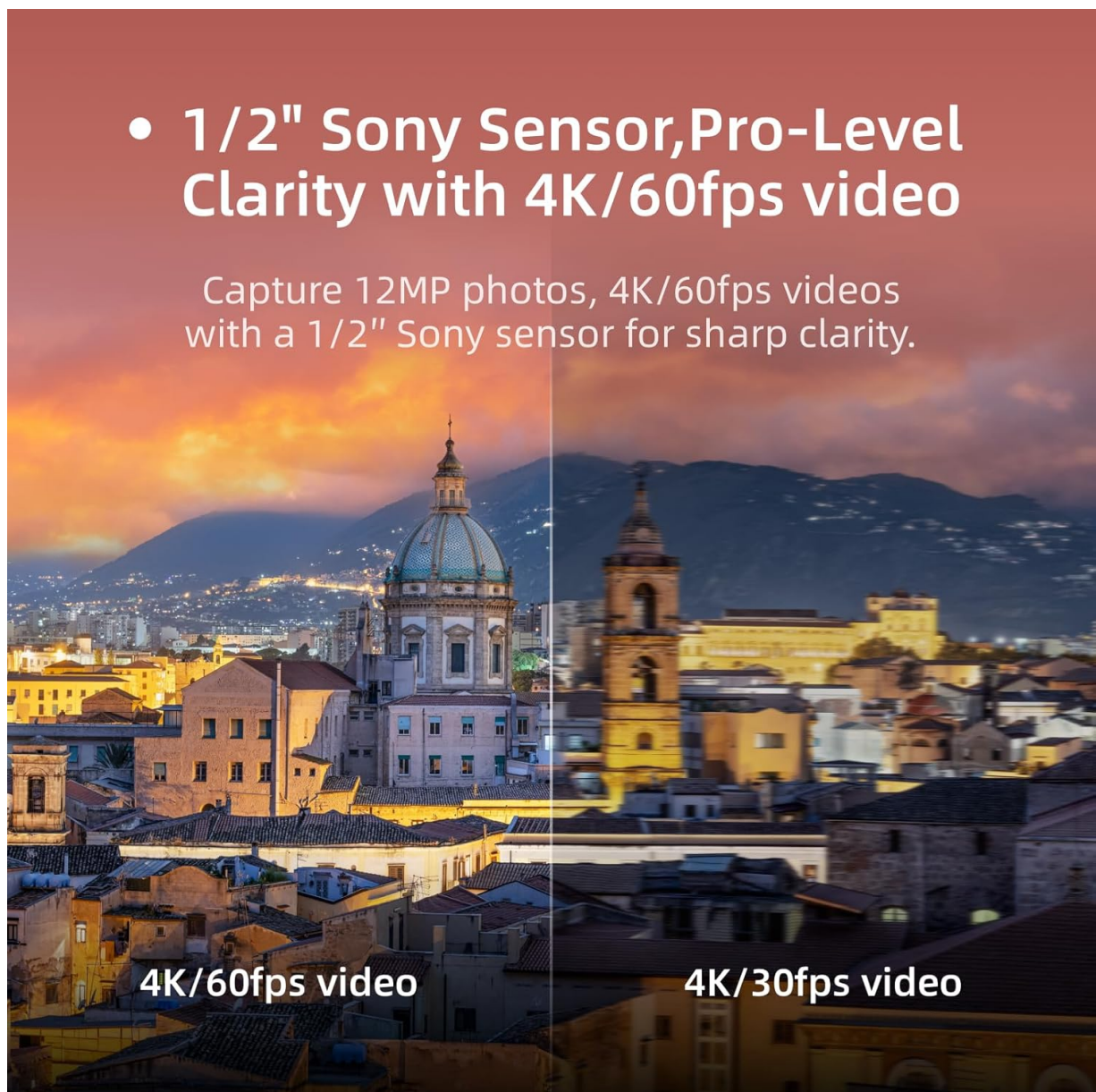


Image: All components included in the Skyrover S1 Mini Drone Fly More Combo, neatly arranged.

## SETUP GUIDE

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1. **Unfold the Drone:** Carefully unfold the drone arms until they lock into place.

2. **Install Battery:** Insert a fully charged Smart Flight Battery into the drone until it clicks securely.
3. **Remove Gimbal Lock:** Gently remove the gimbal lock from the camera before powering on the drone.
4. **Charge Batteries:** Use the provided USB-C cable and Battery Hub to charge all Smart Flight Batteries. The Battery Hub allows charging of up to three batteries simultaneously.
5. **Prepare Remote Controller:** Unfold the remote controller's antennas and attach your smartphone using the appropriate adapter cable (USB-C, Lightning, or Type-C).
6. **Power On:** Press and hold the power button on both the drone and the remote controller until they power on.
7. **Connect to App:** Download the Skyrover app on your smartphone and follow the on-screen instructions to connect to your drone.

### Rock-Solid in the Air

GNSS positioning, downward vision, and infrared sensors ensure Skyrover S1 maintains a stable and precise hover.



Image: Visual guide for one-tap takeoff and Smart Return-to-Home, essential for initial setup and flight.

## OPERATING YOUR SKYROVER S1 DRONE

### Flight Controls

Familiarize yourself with the remote controller's joysticks and buttons for precise flight control. The Skyrover S1 is designed for stable flight, even in light wind conditions, thanks to its advanced flight technology and Level 5 wind resistance.

### Fly Longer With More Batteries

Enjoy up to 40 mins\* of flight on a single battery, or up to 120 mins with the Skyrover S1 bundle (3 batteries). Enjoy stable, uninterrupted flying.

\* Data obtained in a laboratory environment under specific test conditions.



Image: Skyrover S1 drone demonstrating stable flight at speed, highlighting its wind resistance.

## Camera Features

The Skyrover S1 is equipped with a powerful camera system for high-quality imaging:

- **4K/60fps Video:** Capture smooth, detailed video footage.
- **48MP Photos:** Take stunning high-resolution still images with the 1/2" Sony CMOS sensor. Update to the latest firmware for full resolution.
- **3-Axis Gimbal Stabilization:** Ensures shake-free videos and sharp photos, even during dynamic movements or windy conditions.
- **4x Digital Zoom:** Zoom in on subjects without flying closer (available in 1080p video mode).
- **Panorama Modes:** Capture sweeping landscapes with 180°, 112° Wide Angle, and Sphere panorama options.
- **Slow Motion:** Record 1080p/120fps slow motion for dramatic effects.

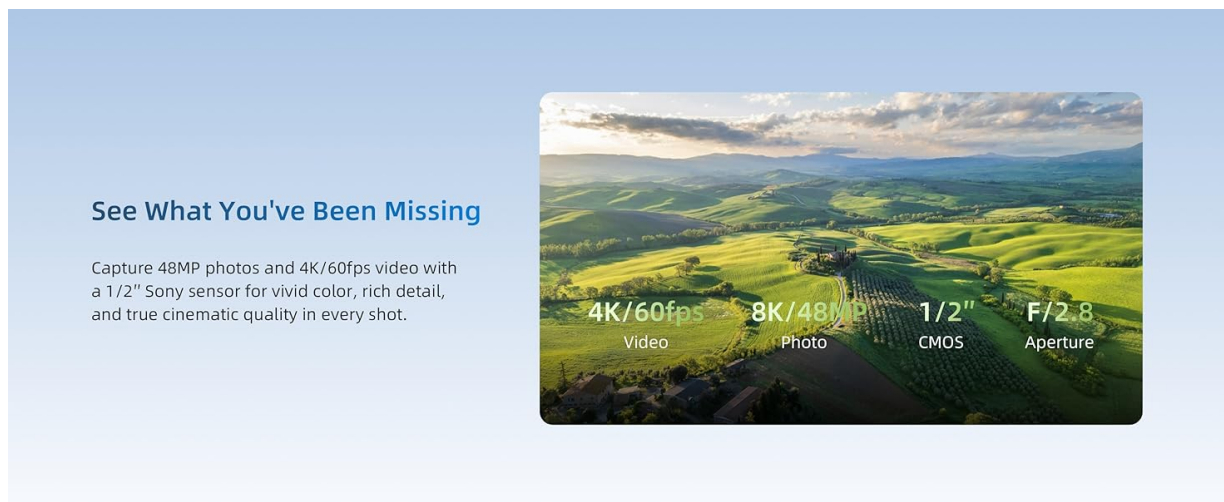


Image: Visual comparison of video quality and camera specifications, emphasizing the 4K/60fps and 48MP capabilities.

## Intelligent Flight Modes

- **Auto Track:** The drone automatically follows a selected subject, keeping it centered in the frame for hands-free recording.
- **SmartGo:** One-tap creation of cinematic shots with pre-programmed flight paths like Loop, Lift, Arc, Vista, and Twist. Ideal for beginners and efficient creative shots.

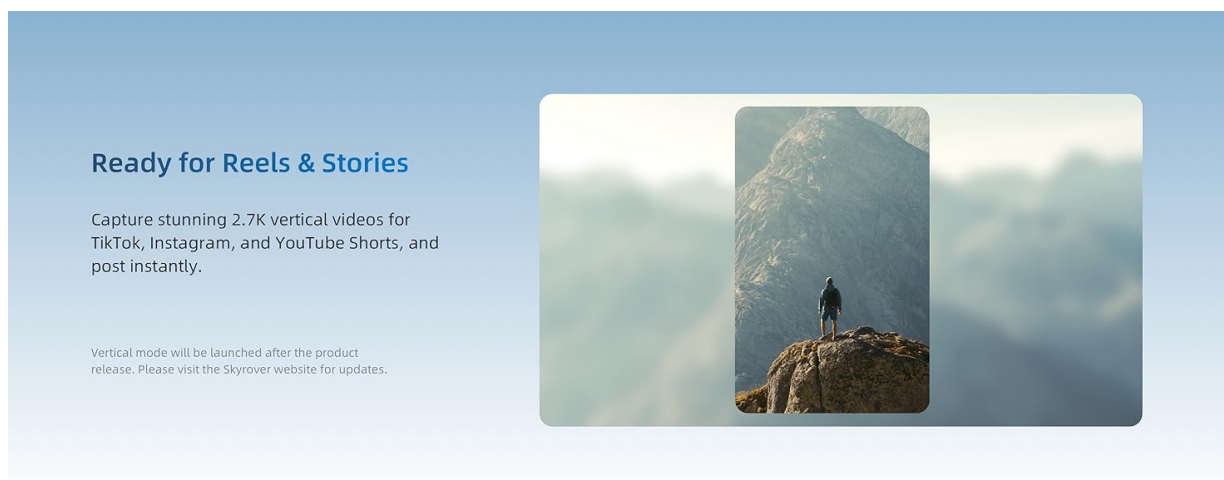


Image: Skyrover S1 drone utilizing Auto Track to follow a subject, ensuring they remain centered in the shot.

## Safety Features

- **Smart Return-to-Home (RTH):** Automatically guides the drone back to its takeoff point if the signal is lost or the battery is low.
- **Obstacle Avoidance:** Utilizes GNSS positioning, downward vision, and infrared sensors to maintain stable flight and avoid obstacles.

### Rock-Solid in the Air

GNSS positioning, downward vision, and infrared sensors ensure Skyrover S1 maintains a stable and precise hover.



Image: Visual representation of one-tap takeoff and the Smart Return-to-Home function, ensuring safe drone operation.

## Video Tutorials

Watch these official Skyrover videos for detailed instructions on using your S1 drone:

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Video: Skyrover S1 drone with camera introduction. This video provides a general overview and introduction to the drone's features and basic operation.

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Video: How to update the latest firmware of S1. This video guides users through the process of updating the drone's firmware to access new features and improvements.

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Video: Introduction to use Skyrover S1 drone with camera. This video offers a comprehensive guide on how to effectively use the drone's camera for various shooting scenarios.

## MAINTENANCE

- **Propeller Replacement:** Regularly inspect propellers for damage. Replace any bent, cracked, or chipped propellers using the provided spare pairs and screws. Ensure correct propeller type (A or B) is installed on the corresponding motor.
- **Battery Care:** Store batteries in a cool, dry place. Avoid overcharging or fully discharging batteries. Do not use damaged batteries.
- **Gimbal Protection:** Always attach the gimbal lock when transporting the drone to prevent damage to the camera and gimbal mechanism.
- **Cleaning:** Use a soft, dry cloth to clean the drone body and camera lens. Avoid using harsh chemicals.



Image: Skyrover S1 Battery Charging Hub and Smart Flight Battery, illustrating key components for maintenance.

## TROUBLESHOOTING

- **Drone Not Powering On:** Ensure the battery is fully charged and correctly inserted. Press and hold the power button for a few seconds.
- **Remote Controller Not Connecting:** Verify both the drone and controller are powered on. Ensure your smartphone is correctly connected to the controller and the Skyrover app is open. Re-pair if necessary.
- **Poor Video Quality/Shaky Footage:** Check if the gimbal lock has been removed. Ensure the 3-axis gimbal is functioning correctly. Fly in calm conditions if possible. Update firmware to unlock full resolution.
- **Drone Drifting/Unstable Flight:** Perform IMU and compass calibration as per the app's instructions. Ensure you are flying in an open area away from strong magnetic interference.
- **Short Flight Time:** Ensure batteries are fully charged. Flight time can be affected by aggressive flying, strong winds, and low temperatures.
- **Lost Signal:** The Smart RTH feature should automatically activate. If not, manually trigger RTH. Avoid flying beyond the specified transmission range or behind large obstacles.

## SPECIFICATIONS

Feature	Detail
Brand	SKYROVER
Model	S1
Item Weight	Under 249 Grams (8.8 ounces)
Video Capture Resolution	4K/60fps
Effective Still Resolution	48 MP (with 1/2 inch SONY CMOS sensor)
Gimbal	3-Axis Gimbal Stabilization
Flight Time	Up to 40 mins per battery (120 mins with 3 batteries)
Video Transmission	Up to 39,000 ft
Battery Capacity	2560 Milliamp Hours (Lithium Polymer)
Special Features	Auto Track, SmartGo, Smart Return-to-Home, Obstacle Avoidance
Product Dimensions	6.3"L x 3.8"W x 2.5"H

## WARRANTY & SUPPORT

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Your Skyrover S1 Mini Drone Combo comes with a **12-month warranty** covering manufacturing defects. For any inquiries, technical assistance, or after-sales support, please contact our dedicated customer service team.

**After-sales support email:** [after-sales@skyroverdrone.com](mailto:after-sales@skyroverdrone.com)



Image: Skyrover Support details, including email and warranty information.