Autel EVO 2 Pro V3

Autel Robotics EVO 2 Pro V3 User Manual

Model: EVO 2 Pro V3 | Brand: Autel

Introduction

The Autel Robotics EVO 2 Pro V3 is an advanced foldable drone designed for professional aerial photography and videography. Featuring a Son-y 1-inch CMOS sensor, it captures stunning 6K HDR video and 20-megapixel stills. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your EVO 2 Pro V3 drone.



Image: Autel Robotics EVO 2 Pro V3 drone with its Smart Controller SE, two batteries, propellers, and a hard plastic case.

What's in the Box

The EVO 2 Pro V3 combo includes the following components:

- 1x EVO II Pro 6K Aircraft (including 1x Battery, 2 Pair x propellers, 1x gimbal holder, 1x 32G SD card)
- 1x Remote Control (Autel Smart Controller SE)
- 1x Battery Charger + Power Cable
- 1x RC Charge
- 1x RC Charging Cable
- 1x RC Lanyard
- 1x Extra Battery
- 1 Pair x Extra Propellers
- 1 Pair x Spare Control Stick
- 1x Hard Plastic Case

Setup

1. Charging Batteries

Before first use, fully charge both the aircraft battery and the Smart Controller SE. Use the provided battery charger and RC charging cable. Ensure all batteries are fully charged for optimal flight performance and safety.

2. Propeller Installation

Attach the propellers to the motor shafts. Ensure they are securely fastened according to the markings (clockwise and counter-clockwise). Incorrect installation can lead to unstable flight or damage.

3. Gimbal Holder Removal

Carefully remove the gimbal holder before powering on the drone. This protects the camera and gimbal during transport.

4. SD Card Insertion

Insert the provided 32GB SD card into the drone's designated slot. This card is essential for recording photos and videos.

Operating the EVO 2 Pro V3

Flight Performance

- **Flight Time:** Up to 40 minutes in forwarding motion and 35 minutes at a hover, thanks to the 7100mAh rechargeable battery.
- **Transmission Range:** Autel SkyLink 2.0 extends video transmission distance up to 9 miles (15 KM), supporting tri-band (2.4GHz / 5.8GHz / 900MHz) communication for maximum anti-interference capabilities.
- **Obstacle Avoidance:** Equipped with 12 computer vision sensors, 2 sonar sensors, and 2 LED landing lights, providing 360° omni-directional obstacle avoidance for safe flight.
- **No Geo-Fencing:** The EVO II Pro V3 does not have geo-fencing restrictions, allowing pilots to fly responsibly in accordance with local regulations.



Image: The EVO 2 Pro V3 drone demonstrating its 360-degree omnidirectional obstacle avoidance system in a forest environment.

Camera Features

The EVO 2 Pro V3 features a Son-y 1-inch CMOS image sensor capable of capturing 6K video and 20-megapixel photos. It includes an F2.8 to F11 adjustable aperture and a maximum ISO of 44000 for superior low-light performance.

- **12-Bit A-Log:** Records up to 68.6 billion colors, providing greater flexibility in post-production by retaining rich detail in shadows and highlights.
- **Moonlight Algorithm 2.0:** Enhanced noise reduction for operations in minimal lighting or at night.



Image: Overview of the Autel EVO II Pro V3's core specifications, including its camera sensor, video resolution, battery life, and transmission range.

Intelligent Flight Modes

- **Dynamic Track 2.0:** Utilizes deep learning algorithms to track selected objects automatically while avoiding obstacles.
- **Failsafe & One-Key Return Home:** The drone automatically returns home when the battery is low or communication is lost, enhancing protection.
- **Accurate Landing:** The bottom binocular vision camera creates density depth maps to ensure precise and safe landings.
- **Mission Planner:** Supports various mission types like Rectangular, Polygon, and Oblique missions for mapping and other professional applications.

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Video: Demonstration of the EVO II Pro's Dynamic Track 2.0 and 360-degree obstacle avoidance capabilities, showcasing its intelligent flight features.

Maintenance

Regular maintenance ensures the longevity and optimal performance of your EVO 2 Pro V3 drone.

- **Cleaning:** After each flight, gently wipe the drone's body, propellers, and camera lens with a soft, dry cloth. Ensure no dust or debris accumulates in the motors or sensors.
- **Battery Care:** Store batteries in a cool, dry place. Do not fully discharge or overcharge them. For long-term storage, charge batteries to approximately 50-60%.
- **Propeller Inspection:** Regularly check propellers for any cracks, bends, or damage. Replace damaged propellers immediately to prevent flight instability.
- **Firmware Updates:** Keep the drone and remote controller firmware updated to the latest version for improved features and stability. Refer to the official Autel Robotics website for update instructions.

Troubleshooting

If you encounter issues with your EVO 2 Pro V3, consider the following common troubleshooting steps:

- **Drone Not Powering On:** Ensure the battery is fully charged and correctly inserted. Check for any visible damage to the battery or drone.
- **Loss of Signal:** Move to an open area away from interference sources (e.g., large metal structures, strong Wi-Fi signals). Ensure the remote controller is fully charged and within range.
- **Unstable Flight:** Check propellers for damage or incorrect installation. Calibrate the IMU and compass as per the user guide.
- **Camera Issues:** Ensure the gimbal holder is removed. Clean the camera lens. Check for firmware updates for the camera module.

For more detailed troubleshooting or persistent issues, please refer to the comprehensive User Manual (PDF) available on the Autel Robotics website or contact customer support.

Specifications

Feature	Detail
Brand	Autel
Model Name	Autel EVO 2 Pro 6K drone
Video Capture Resolution	6K
Connectivity Technology	USB
Item Weight	1191 Grams (2.63 pounds)
Battery Capacity	7100 Milliamp Hours
Maximum Range	9 Kilometers
Supported Image Format	JPEG, DNG
Optical Sensor Technology	CMOS
Product Dimensions	9.1"L x 5.1"W x 4.3"H

Table: Key technical specifications of the Autel Robotics EVO 2 Pro V3 drone.

Applications

The Autel EVO 2 Pro V3 is versatile and suitable for a wide range of professional applications:

- **Mapping:** Ideal for aerial cinematography and mapping projects due to its high-resolution camera and mission planning capabilities.
- **Public Safety & Security:** Can be used to assess threats from a safe distance, patrol areas during investigations, and enhance situational awareness.
- **Search & Rescue:** Quickly locate missing persons by using automated mission modes to cover large search areas.
- **Firefighting:** Identify hotspots, locate victims, and monitor changing conditions from above, reducing risk for ground crews.

Your browser does not support the video tag.

Video: A demonstration of the Autel EVO 2 Pro 6K drone performing a mapping mission, highlighting its utility in professional applications.

Warranty and Support

Your Autel EVO 2 Pro V3 combo is backed by a **30-day replacement or full refund policy** and **12 months of free-from-defects services**. For any concerns or issues, please contact Autel Store Online directly.
Additional resources:

- User Guide (PDF): Download User Guide
- User Manual (PDF): Download User Manual
- Safety Information (PDF): Download Safety Information

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Example: How do I reset this device or fix this error?

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