Autel EVO 2 Pro V3

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User Manual

Introduction

The Autel Robotics EVO 2 Pro V3 is a professional-grade drone equipped with advanced imaging and flight capabilities. Featuring a Son-y 1-inch CMOS sensor, it captures stunning 6K HDR video and 20MP stills, offering exceptional dynamic range and low-light performance. Its 360° omni-directional obstacle avoidance system ensures safe flight, while the Autel SkyLink 2.0 transmission system provides a robust 15KM range. This manual provides essential information for setting up, operating, and maintaining your EVO 2 Pro V3 drone.



Image: Autel Robotics EVO II Pro V3 highlighting its key features including the Son-y 1-inch CMOS, 6K/30fps video, 12-Bit DNG, Max ISO 44000, F/2.8-F/11 aperture, 40 min battery life, Dynamic Track 2.1, 15km transmission range, and 6.4" Smart Controller SE.

What's in the Box

Your Autel Robotics EVO 2 Pro V3 package includes the following components:

- 1 x Ready-to-go EVO II Pro 6K Drone (with 1x Battery, 2 Pair x Low Noise Propellers, 1x Gimbal Holder, 1x 32G SD Card)
- 1 x Remote Control (Autel Smart Controller SE)
- 1 x Extra Battery
- 1 Pair x Extra EVO II Low Noise Propellers
- 1 Pair x Spare Control Stick
- 1 x Hard Case



Image: The complete Autel Robotics EVO II Pro V3 package, including the drone, Smart Controller SE, two batteries, propellers, charging accessories, and a hard case.

Setup

1. **Charge Batteries:** Fully charge the aircraft battery and the Smart Controller SE before first use to ensure optimal flight experience. The drone comes with a 7100mAh rechargeable battery.
2. **Install Propellers:** Attach the low noise propellers to the motor arms according to the instructions in the quick start guide.
3. **Remove Gimbal Holder:** Carefully remove the gimbal holder from the camera.
4. **Insert SD Card:** Insert the provided 32GB SD card into the drone's designated slot for recording media.
5. **Power On & Pair:** Power on the drone and the Smart Controller SE. Follow the on-screen prompts on the 6.4-inch OLED touch screen to pair the devices.

Operating the Drone

Flight Controls & Features

The Autel EVO 2 Pro V3 offers intuitive controls and advanced features for a seamless flight experience.

- **360° Omni-Directional Obstacle Avoidance:** Equipped with 12 computer vision sensors, 2 sonar sensors, and 2 LED landing lights, the drone can safely navigate its environment.
- **Dynamic Track 2.0:** The drone can model the location and speed of targets, predict their trajectory, and track them continuously while identifying up to 64 objects simultaneously.
- **Failsafe & One-Key Return Home:** The drone will automatically return home when the aircraft battery is low or communication is lost, enhancing protection.
- **Accurate Landing:** The EVO 2's bottom binocular vision camera creates density depth maps to ensure accurate and safe landings.



Image: The Autel Robotics EVO II Pro V3 drone flying through a forest, illustrating its 360° omnidirectional obstacle avoidance capabilities.

Camera Operation

Capture stunning visuals with the drone's high-performance camera system:

- **Sensor:** Son-y 20MP 1-inch CMOS image sensor.
- **Video Resolution:** Up to 6K HDR video with improved dynamic range and noise suppression.
- **Image Format:** 12-Bit DNG for rich detail in shadows and highlights, offering greater flexibility in post-production.
- **Aperture:** Adjustable aperture range of F2.8 to F11.
- **ISO:** Maximum ISO of 44000, enhanced by Moonlight Algorithm 2.0 for low-light conditions.



Image: Close-up of the Autel EVO II Pro V3 camera highlighting the Moonlight Algorithm 2.0 for enhanced night mode photography.

Video Transmission

Experience stable and long-range video transmission with Autel SkyLink 2.0:

- **Range:** Up to 15 KM (9 miles) transmission distance.
- **Frequency:** Supports tri-band (2.4GHz / 5.8GHz / 900MHz) communication with automatic frequency hopping for maximum anti-interference capabilities.



Image: A person holding the Autel Smart Controller SE, showcasing the Autel SkyLink 2.0 video transmission with a 9-mile range and tri-band communication.

Mission Planning

The Autel EVO 2 Pro V3 supports various mission planning modes for automated flight:

- **Waypoint Missions:** Plan precise flight paths with predefined waypoints.
- **Rectangular Missions:** Ideal for mapping large, rectangular areas.
- **Polygon Missions:** Customize mapping areas with irregular shapes.

No Geo-Fencing: The Autel EVO 2 Pro V3 does not have geo-fencing restrictions in no-fly zones. Pilots are responsible for being aware of and adhering to local rules and regulations. The drone does not require the latest firmware or app version to take off.



Image: The Autel Robotics EVO II Pro V3 flying over a landscape, illustrating Dynamic Track 2.0 and the absence of geo-fencing.

Official Product Video: Mapping Mission

Video: This video demonstrates the Autel EVO 2 Pro 6K drone performing a mapping mission. It shows the drone's flight path and the resulting aerial imagery, highlighting its capabilities for detailed area mapping.

Safety Guidelines

Always prioritize safety during drone operation. Adhere to all local aviation regulations and guidelines. Perform pre-flight checks before each flight, including battery levels, propeller integrity, and environmental conditions. Ensure you have a clear line of sight to the drone at all times. Please fly legally!

Maintenance

Proper maintenance ensures the longevity and optimal performance of your drone:

- **Battery Care:** Always fully charge the aircraft battery before flying. Store batteries in a cool, dry place.

- **Propeller Inspection:** Regularly check propellers for any signs of damage (cracks, bends, chips) and replace them if necessary.
- **Gimbal Protection:** Always use the gimbal holder when transporting or storing the drone to prevent damage to the camera and gimbal mechanism.
- **Cleaning:** Keep the drone and controller clean and free from dust and debris.

Troubleshooting

If you encounter issues with your Autel Robotics EVO 2 Pro V3, consider the following common solutions:

- **No Power:** Ensure batteries are fully charged and properly inserted.
- **Connection Issues:** Verify that the drone and controller are correctly paired. Check for signal interference.
- **Flight Instability:** Ensure propellers are securely attached and undamaged. Check for strong winds.
- **Camera Malfunction:** Verify the gimbal holder has been removed. Check for any obstructions or damage to the camera.
- **Firmware/App Issues:** While not always necessary for takeoff, ensure your firmware and app are up-to-date for optimal performance and bug fixes.

For further assistance, please contact customer support.

Specifications

Feature	Detail
Brand	Autel
Model Name	EVO 2 Pro V3
Camera Sensor	Son-y 1-inch CMOS, 20MP
Video Resolution	Up to 6K HDR
Image Format	12-Bit DNG
Max ISO	44000
Aperture Range	F2.8 to F11
Smart Controller	6.4" OLED Touch Screen
Transmission Range	15 KM (9 miles)
Obstacle Avoidance	360° Omni-Directional
Flight Time	Up to 40 minutes
Item Weight	2.63 pounds (1191 Grams)
Product Dimensions	9.1"L x 5.1"W x 4.3"H

Warranty and Support

Your Autel Robotics EVO 2 Pro V3 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 customer support directly via email:immoautel@outlook.com.

You can also refer to the official User Manual (PDF) for more detailed information:Download PDF Manual.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

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

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question