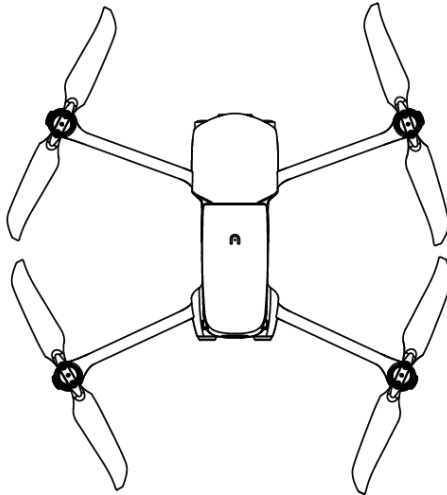


User Manual

EVO Lite Series

V2.0 2022.05



AUTEL
ROBOTICS

Terms for Usage

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Disclaimer

In order to ensure safety and successfully operate your EVO Lite aircrafts, please abide by the operating instructions and procedures of this Manual. Users under 16 years must use the aircraft under the supervision of a professional adult. The aircraft shall be kept out of the reach of children when it is not used.

If user fails to abide by the safe operating instructions, Autel Robotics will assume no responsibility for any product damage or loss--direct or indirect, legal, special or economic loss (including but not limited to profit loss) during use, and will not provide warranty service. Never modify your product by using any incompatible component or any method that is not required in Autel Robotics official description. This Manual will show you the safe operating procedures of aircrafts. Please acknowledge that your operation will not endanger your and other personal and property safety.

Data Storage and Use

The backup service function of this product is disabled by default, so user and flight information will not be uploaded or propagated through mobile device. When Autel Sky APP is connected with an aircraft, the flight log including the flight remote sensing data will be uploaded and saved in the Autel Robotics data server. All remote sensing data and flight logs are stored in the data server in the United States, but the data can be uploaded automatically only when the flight log backup option is enabled. Without the explicit authorization of user through APP, Autel Robotics customer service team has no right to access to the flight log data. With the authorization, it is only allowed to access to the flight logs within the selected time.

Various still images, motion images and data from the aircraft sensor will be stored in the internal drive of aircraft. If your UAV needs repair, then the information stored in the internal memory unit can be used for problem diagnosis. This information will not be retained, unless for processing service or repair. Never delete or change any data stored in the internal memory unit in any form, otherwise Autel Robotics will not provide warranty.

The data collected by Autel Robotics are for providing support and service and improving product performance. We will seriously treat your privacy like ourselves. We can agree to disclose any uploaded data only when the law requires.

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Chapter 1 Read Instructions

Thank you for your purchase of EVO Lite series and welcome your experience in Autel Robotics products. With this Manual, you can understand the features of EVO Lite series and learn to operate this aircraft and remote controller optimally. Before first use of EVO Lite series, please read this Manual and attached documents and get ready this Manual at any moment for reference.

1.1 Legend keys

Please pay attention to the legend keys in this Manual.

-  Warning: remind the possible danger
-  Important: precautions
-  Remark: supplementary information for your better understanding

1.2 Product document

Autel Robotics provides users with the following documents that users can obtain the optimal experience:

1. User Manual
2. Quick Start Guide
3. Disclaimer and Safe Operation Guide

Users are recommended to first view the Disclaimer and Safe Operation Guide and then read the Quick Start Guide to understand the use procedure.

Please read the User Manual for the detailed information on products.

Warning

- Please check the aircraft and other accessories listed on the part list in packing box. Do not modify this aircraft by using any incompatible component or any method that is not required in official description.

1.3 Download Autel Sky App

Autel Sky App can provide real-time image transmission, senior flight and camera control methods for your mobile device. App supports Android 6.0 , iOS 13.0 and above systems. You can download in the following two ways:

Method one:

Search for **Autel Sky** in the App Store or Google Play, and click **INSTALL**.

Method Two:

Visit the App download page of Autel Robotics' official website and scan the QR code to download: www.autelrobotics.com/download/App_download.html

Chapter 2 Aircraft

EVO Lite series are the four-rotor UAVs with folding body. EVO Lite series UAVs cannot only have indoor and outdoor steady hovering, intelligent flight and other advanced functions but also have powerful flight performance with the maximum flight speed up to 68km/h and the longest flight time up to about 40 minutes.

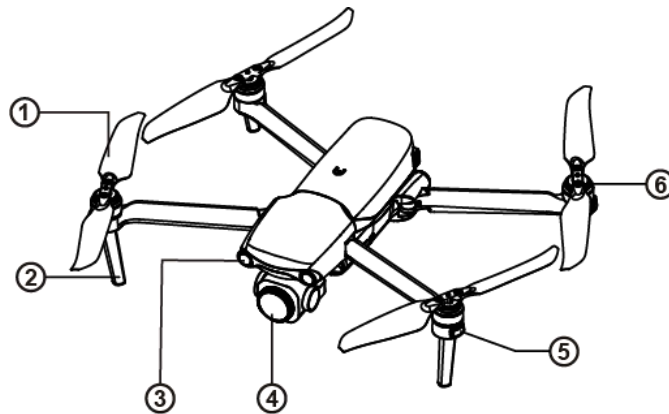
EVO Lite series UAVs include EVO Lite and EVO Lite+, the camera of which adopts 1/1.28 inch and 1 inch CMOS image sensors respectively. EVO Lite is provided with 4-axis gimbal that can steadily shoot 4K high-definition videos and pictures at 50m pixels. EVO Lite+ is provided with 3-axis gimbal that can shoot 6K videos and pictures at 20m pixels. With the new Autel Sky App, they can realize a variety of intelligent shooting modes such as one-click short film, panorama and time lapse. With the rich built-in templates in the APP, you can use the templates in your film after selecting materials and then use the mobile phone quick transfer or one-click share functions to quickly download and share your works.

EVO Lite series adopts the new generation of Autel Skylink image transmission technology of Autel Robotics, and supports the double-emission and double-receiving of 2.4GHz, 5.8GHz and 5.2GHz. Without interference and blockage, it can realize 12km image transmission with the image resolution up to 2.7K; the remote controller is equipped with a support for the mobile device that can display the high-definition picture in a real-time manner by Autel Sky App.

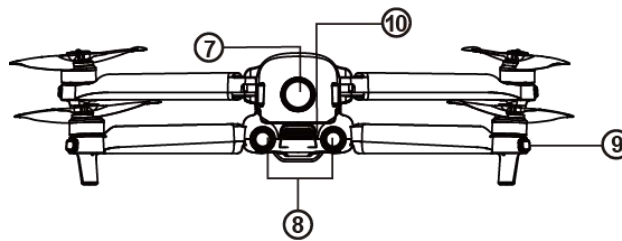
Remark

- The maximum flight speed is measured adjacent to the sea level when there is no wind.

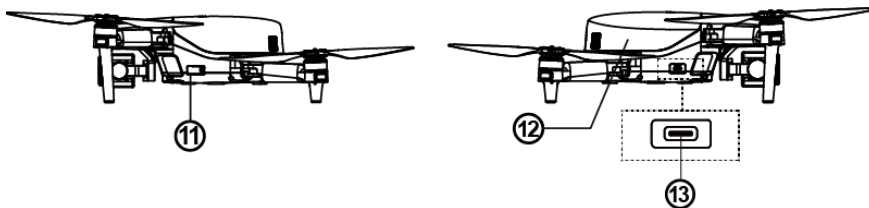
2.1 Components description



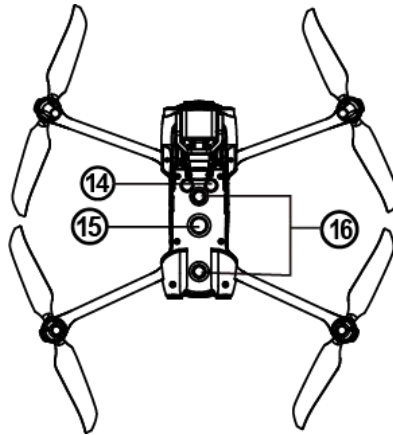
- ① Propeller
- ② Undercarriage
- ③ Forward visual system
- ④ Gimbal camera
- ⑤ Front LED indicator
- ⑥ Motor



- ⑦ Power button
- ⑧ Rear vision system
- ⑨ Rear LED indicator
- ⑩ Air outlet



- ⑪ SD card slot
- ⑫ Aircraft battery
- ⑬ USB-C port



⑭ Ultrasonic sensor

⑮ Downward vision system

⑯ Downward LED

2.2 Flight indicator

The aircraft has one LED indicator at the end of each arm. The front LED shows steady red to help you to find the head direction. The rear LED shows the current flight status of aircraft.

Designated symbol of color:

R - Red

Y - Yellow

G - Green

B - Blue

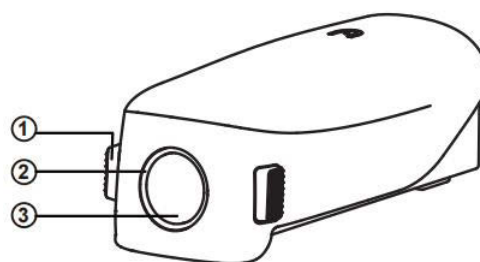
Status Definition of Flight LED Indicator		
Front LED Indicator	Back LED Indicator	Meaning
Normal Status		
B - Normally on	G - Slow flash (2 secs/1 time)	Aircraft in GPS mode
B - Normally on	Y - Slow flash (1 sec/1 time)	Aircraft in ATTI mode
Warning		
B - Normally on	Y - Slow flash (1 sec/1 time)	Low battery warning
B - Normally on	R - Slow flash (1 sec/1 time)	Serious low battery warning
Compass calibration		

B - Normally on	Y - Normally on	Aircraft under calibration
B - Normally on	G - Normally on	Calibration successful
B - Normally on	Y - Normally on	Calibration failed
Aircraft and remote controller are pairing		
B - Rapid flash	G - Rapid flash	Aircraft under pairing
B - Rapid flash	G - Normally on 5S	Pairing successful
B - Rapid flash	R - Normally on 5S	Pairing failed
Upgrading		
B - Rapid flash	G - Rapid flash	Aircraft under upgrading
B - Normally on	G - Normally on	Upgrading successful
B - Normally on	Y - Slow flash (1 sec/1 time)	Upgrading failed

2.3 Aircraft battery

The battery for EVO Lite is 6175mAh and has the rated voltage of 11.13V and charging and discharging management functions. The battery needs to use the officially provided dedicated adapter and cable for charging.

- ① Disconnect button
- ② Battery level indicator
- ③ Power button



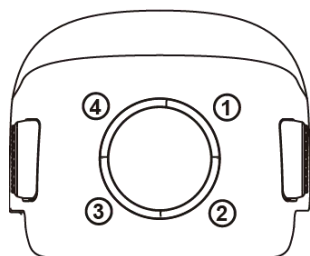
⚠ Warning

- Only the battery and charger provided by Autel Robotics are allowed. Neither modify battery and its charger nor use replace them with the third party equipment.
- The electrolyte in the battery has strong corrosion. If the electrolyte accidentally touches your eye or skin, immediately rinse with clear water and timely see a doctor.

2.3.1 Battery use

1. Check battery level

The battery indicator is divided into LED 1, LED 2, LED 3, LED 4. The position of each indicator is shown in the figure below.



When the battery is turned off, press the power button for 1 second and then release it quickly to check the battery level. LED will indicate the current battery level, as shown below.

Battery level indicator status (non-charging status)			
0%~12%	13%~25%	26%~37%	38%~50%
51%~62%	63%~75%	76%~87%	88%~100%
- Green is normally on	- Flashing Green	- Off	

LED Warning description	
Indicator is flashing	Warning description
	The charging temperature is too high or too low.
	The charging current is high enough to cause short circuit.
	There is overcurrent, overload or short circuit problem in the case of discharging.
- Indicator is flashing	- Off

2. Turn on battery

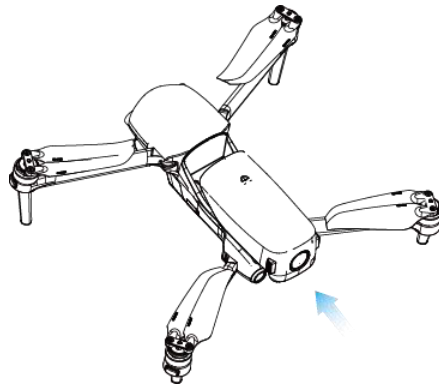
The battery shall be turned off before it is installed. After installation, long press the power button for 3 seconds. The battery level indicator will indicate the current battery level.

3. Turn off battery

Long press the power button for 3 seconds to turn off battery. If the battery has been installed on aircraft, LED 1 and LED 4 will flash for five times to remind the shutting down. After all battery level indicators are turned off, take the battery out of the aircraft.

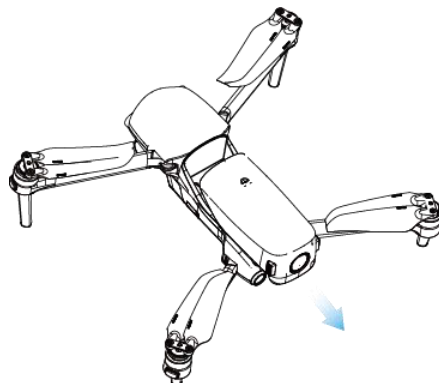
4. Install aircraft battery

1. Turn off the battery power switch before installing battery.
2. Insert the battery compartment and push it to the bottom, as shown below. There will be clicking sound when the battery is installed in place.



5. Disassemble aircraft battery

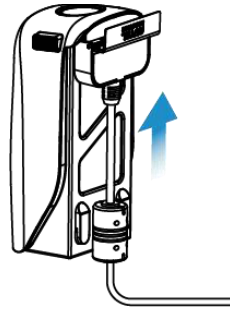
1. Turn off the aircraft battery power switch before taking out the battery.
2. Press the buckles at two sides of battery and slowly take out the battery.



6. Charge aircraft battery

The aircraft battery and remote controller can use the charger and cable provided for charging. Before each use, the battery shall be fully charged.

- 1) Connect the adapter to AC power..
- 2) Press and hold the disconnect button on both ends of the battery, and connect one end of the charging cable to the charging slot of the aircraft battery.



- 3) Under the charging state, the aircraft battery level indicator will flash circularly.
- 4) When all battery level indicators are off, this shows that the intelligent aircraft battery has been fully charged. Please take off the charger to complete charging.

2.3.2 Battery function

The following functions can protect and prolong the battery service life.

- 1) Self-discharge protection for storage: if the battery is stored in high temperature environment or it is not used for 6 days and the battery level is high, the self-discharge protection will be activated. The battery will automatically discharge to a safe level, and this discharging process takes 2~3 days. In this period, it is normal that the battery may be slightly hot.
- 2) Low battery protection: in the case of low battery level, the battery will automatically enter sleep mode to avoid damage. Under this mode, there will be no reaction when pressing the power button. To wake up the battery, it is allowed to connect it with charger.
- 3) Charging temperature protection: the battery will stop charging in the case of charging temperature lower than 5°C (41°F) or higher than 45°C (113°F).
- 4) Overcurrent protection: the large charging current will seriously damage the battery, so the battery will stop charging in the case of excessive charging current.
- 5) Overcharge protection: the battery will automatically stop charging after it is fully charged.
- 6) Balanced protection: each battery unit shall maintain voltage balance to avoid overcharge or overdischarge.

7) Overdischarge protection: the battery will automatically disconnect the power output function when it is not used and completes the self-discharge period. This function is disabled in flight.

8) Short-circuit protection: the power supply will be disconnected once the short circuit is detected.

9) Power-down mode: the battery will turn off if there is no operation within 30 minutes.

10) Communication: during use, the aircraft will be continuously synchronous with battery to provide the real-time information, including voltage, capacity, current, and temperature.

11) Low power consumption mode: the battery will enter the low power consumption mode when the battery level is lower than about 8% to reduce the own power consumption. To recover the battery from the low power consumption mode, it shall be activated by charger.

2.3.3 Precautions

1. Use

- Please be sure to turn off the aircraft power before installing or disassembling aircraft battery.
- It is only allowed to use the battery and charger sold or authorized by Autel Robotics for EVO Lite series. The use of any unapproved battery or charger may cause fire, explosion, leakage or other dangers. Autel Robotics will assume no responsibility for any consequence of using the battery or charger of third party.
- Be sure to charge the battery fully before each flight. If the aircraft enters the low battery alarm mode, it is necessary to land the aircraft, stop flying, replace or charge battery as soon as possible.
- Never decompose, scratch, extrude, bend, pierce, cut, distort or damage the battery in other forms. Otherwise the fire, explosion, leakage or other dangers may be caused.
- Once the battery is found with bulge, smoke, leakage or any damage, it is necessary to stop use or charging immediately and soak the battery into a vessel containing saline water.
- Please use the battery at the suitable temperature (-10°C~40°C). The use at high or low temperature will affect the battery life. Too high temperature may cause fire or spontaneous combustion; too low temperature may cause the permanent damage of battery.
- When the battery is at low temperature lower than 10°C, it can be inserted into the aircraft for warming; the flight is allowed after the battery is fully warmed up. It is

optimal to warm up to 20°C above.

- Due to the battery output power limitation under the low temperature environment, the wind resistance of aircraft will reduce and its flight performance will degrade. Please operate with care.
- When the battery is used in low temperature environment (0~5°C), the battery shall be full. The discharge capacity of battery will reduce when it operates in low temperature environment, so first turn on the aircraft to warm up the battery.
- Never use the battery in strong static or electromagnetic environment.
- Never expose the battery to open fire, explosion or other danger.
- Never place the battery in microwave oven or pressure cooker.
- If the aircraft falls into water, the battery shall be taken out immediately after it is recovered. Place the battery in an open space and keep a safe distance till that the battery is fully dried. Stop the use of the battery, and contact the customer service center for replacement.

2. Charging

- At most 90 minutes are required to fully charge the aircraft battery, but the charging time is related to the remaining battery level.
- Never use the damaged battery charger.
- When the charger is not used, disconnect it from the aircraft battery and power supply.
- The charging is allowed only after the battery is cooled to room temperature. If the battery is connected with the charger immediately after flight, the overtemperature protection function may be activated to stop battery charging till that the battery is fully cool.
- Do not turn on the aircraft during charging. The charging is not supported when the aircraft is on.
- The allowable battery charging temperature is 5°C~45°C. If the battery cell temperature is not within this range, the battery management system will be prohibited from charging. The optimal charging temperature range is 22°C~28°C. The charging in this range can prolong the battery life.
- For EVO Lite series, the multiple chargers are optional to charge multiple batteries at the same time. You can access to Autel Robotics Online Mall to purchase accessories.
- The battery shall be recharged once every about three months to maintain its activity.

- Autel Robotics will assume no responsibility for any consequence due to the use of non-official standard charger.

3. Storage and transportation

- The battery shall be protected from close contact with water source or heat source when storage. The battery shall be stored in a dry and well-ventilated place in room temperature (ideal temperature of 22°C~28°C (72°F~ 82°F)).
- The battery shall be kept out of the reach of children and pets.
- Never place the battery in direct sunlight or near sharp object, water, metal or reactive chemical.
- The storage of the battery in extreme temperature will shorten the battery service life. If the battery is not used for 1 day above, it shall be stored in -10°C (14°F)~30°C(86°F). Otherwise, the battery damage or failure may be caused.
- If the battery is not used for long, the battery service life will be shortened. Never transport the damaged battery. Once the battery needs to be transported, it shall be discharged to 20~30%.

4. Disposal

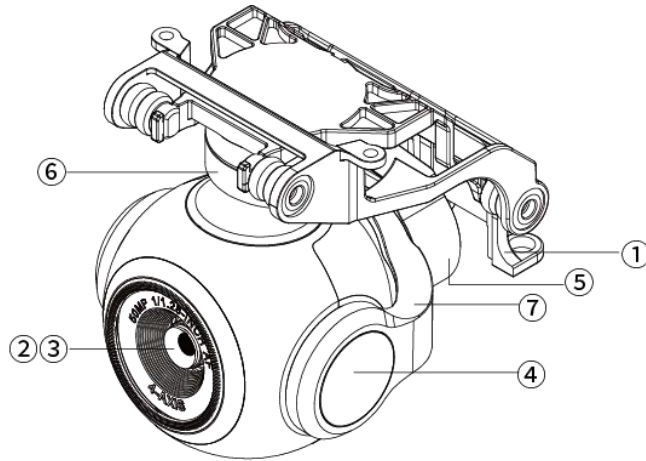
- The battery must be thoroughly discharged before it is discarded in a designated battery recycling bin.
- The battery is a dangerous chemical, so it is forbidden to be discarded in ordinary dustbin. For more details, please abide by the local recycling and disposal laws and regulations.

2.4 Gimbal and camera

2.4.1 Gimbal overview

EVO Lite gimbal

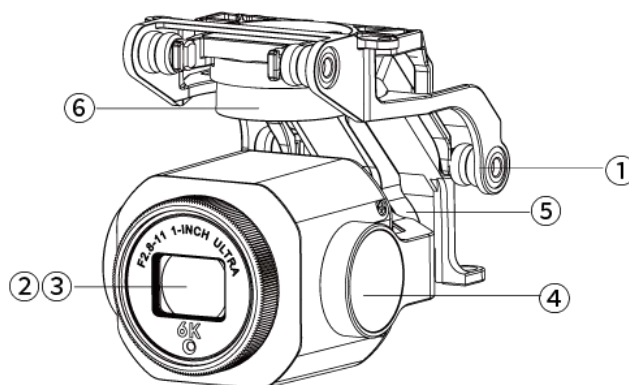
EVO Lite is provided with 4-axis gimbal stabilization and 4K camera with 1/1.28 inch CMOS sensor, and the camera core can take its own plane center as axis to independently rotate by $\pm 400^\circ$. You can use the gimbal pitching thumbwheel of remote controller or Autel Sky App to adjust the gimbal pitch angle within the range of $-90^\circ \sim 30^\circ$.



- ① Shock absorber
- ② Camera
- ③ UV Filter
- ④ Pitching axis motor
- ⑤ Rolling axis motor
- ⑥ Yawing axis motor
- ⑦ Rotating axis motor

EVO Lite+ gimbal

EVO Lite+ is provided with 3-axis stabilization, and the camera includes a built-in 1 inch CMOS sensor to record 6K high-definition video. You can use the gimbal pitching thumbwheel of remote controller or Autel Sky App to adjust the gimbal pitch angle within the range of $-90^{\circ} \sim 30^{\circ}$.



- ① Shock absorber
- ② Camera
- ③ UV Filter
- ④ Pitching axis motor
- ⑤ Rolling axis motor
- ⑥ Yawing axis motor

The gimbal includes two working modes:

Stabilization mode

The rolling axis remains horizontal while the pitching axis remains the user-defined angle. This mode is used to capture stable image and video.

FPV mode

The rolling axis remains consistent with the rolling direction of the aircraft while the pitching axis remains the user-defined angle. This mode is used for first-person perspective.

⚠ Important

- EVO Lite series camera gimbal is fixed by one gimbal protective cover that can protect the gimbal from accidental rotation or damage during storage.
- In order to ensure normal operation, the gimbal temperature must be $-10^{\circ}\text{C}\sim 50^{\circ}\text{C}$ ($14^{\circ}\text{F}\sim 122^{\circ}\text{F}$).
- Please be sure to take down the gimbal protective cover before startup. Otherwise the gimbal camera and circuit may be damaged.
- When turning on the aircraft power switch, the gimbal will rotate automatically to carry out self-test and calibration. Please ensure that there is no object that may hinder the gimbal motion around the gimbal.
- The gimbal contains precision components. In the case of collision or damage, the precision components may be damaged to cause performance reduction of the gimbal. Please protect the gimbal camera from physical damage.
- The gimbal shall be kept clean and avoided touching sand, stone and other objects, otherwise the gimbal motion may be hindered, affecting its performance.
- Never add any object on the camera gimbal, otherwise this may affect the gimbal performance and even cause the motor burnout.
- Before flight, ensure that there is no any sticker or foreign object on the gimbal, and place the aircraft on the flat and open ground. Never collide with the gimbal after power on.
- If any ground object collides with the gimbal or the gimbal is impacted by an excessive external force (such as being collided or broken) when it is placed on the rugged ground or grassland, the gimbal motor may become abnormal.
- The flight in heavy fog or cloud may cause the condensation of gimbal, resulting in temporary fault. In this case, the gimbal can recover normal after drying.

2.4.2 Camera overview

EVO Lite camera is featured by 1/1.28 inch sensor, 50m effective pixels, lens aperture of F1.9, and focus of 0.5m and above. It can record 4K60 high-definition video.

EVO Lite+ camera contains one 1 inch sensor and can support 20m still photo shooting and 6K high-definition video recording, and its aperture is adjustable within F2.8~F11. The focus is 0.5m and above.

These two camera modules can support multiple shooting modes, including:

- Single
- Burst
- Auto exposure bracketing (AEB)
- Timer
- HDR imaging
- Night
- Panoramic

The camera can save photos in DNG or JPG format and record videos in MOV or MP4 format. The image and video can be saved in Micro SD card. The real-time image can be displayed in Autel Sky App at a resolution up to 2.7K and a fluency of 30 frames.

⚠ Important

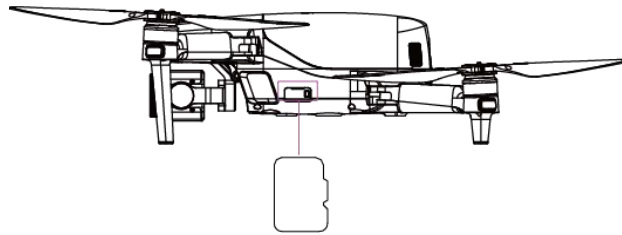
- Please use and store the camera within the nominal temperature and humidity range to maintain good performance of camera lens.
- Any dirt or dust on the lens surface is recommended to be removed by special lens cleaning tool, in order to avoid damaging lens or affecting image quality.
- Ensure that the camera is not blocked or covered, otherwise high temperature may cause the camera damage and even get you or others a burn.

2.4.3 Use Micro SD card

EVO Lite series is provided with Micro SD card slot for storage space extension.

Before the aircraft is turned on, first insert one Micro SD card in a port, as shown below. EVO Lite series can support the SD card with the maximum storage capacity of 256GB. If you want to shoot a high-definition video, you are recommended to use the Class 10 or UHS-3

Micro SD card.



Without Micro SD card, it is also allowed to take photo or record video but the image will be directly stored in the mobile device.

⚠ Warning

- Never insert or pull Micro SD card when the aircraft is on. If the Micro SD card is inserted or pulled during video recording or the battery is removed when power on, the Micro SD card may be damaged to cause data loss.
- Please turn off the aircraft correctly, otherwise the camera parameters would not be saved and the video being recorded would be damaged. Autel Robotics will assume no responsibility for the loss caused by failure to read video or photo.
- It is recommended to limit the single recording time within 30 minutes to ensure camera system stability.
- Please check camera parameter setting and ensure accurate parameters before shooting.
- Before the important video is shot, please conduct the several test shootings to ensure that the equipment is normal.
- The photo or video stored in Micro SD card can be downloaded through Autel Sky App only when the aircraft is turned on.

2.5 Propeller

EVO Lite series adopts the noise-reducing quick release propeller.

⚠ Warning

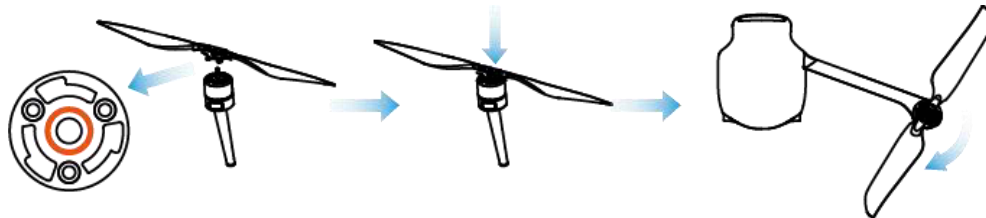
- Please turn off the aircraft power switch before installing or dismantling the propeller.







ⓘ Important

- It is necessary to wear protective gloves when installing or dismantling the propeller.

2.5.1 Install propeller

1. Confirm that the aircraft has been turned off.
2. Select the propeller matched for each motor.
3. Forcibly press down the propeller and rotate it along the locking direction till that it is installed firmly.



Propeller	With white mark	Without white mark
Schematic diagram		
Installation position	Installed to the mount with white mark	Installed to the mount without white mark
Legend	<p>Locking direction (): rotate the propeller to tighten it as shown in the figure.</p> <p>Unlocking direction (): rotate the propeller to remove it as shown in the figure.</p>	<p>Locking direction (): rotate the propeller to tighten it as shown in the figure.</p> <p>Unlocking direction (): rotate the propeller to remove it as shown in the figure.</p>

2.5.2 Disassemble propeller

1. Turn off the aircraft.
2. Forcibly press down the propeller and rotate it along the unlocking direction till that it is removed.

⚠ Important

- Check to confirm that each propeller has been installed firmly before flight.
- Do not use the damaged propeller for flight.
- It is forbidden to touch the rotating propeller or motor.

- It is always necessary to take down the propeller before motor test.
- Please use the special propeller for Lite series provided by Autel Robotics. Do not use the propellers of different models.
- In the case of blade replacement, use the two blades in the same package. Never mix with the blades in other package.
- Never modify the physical structure of motor without approval.
- Never cover the motor air outlet or the air outlet on the aircraft shell.

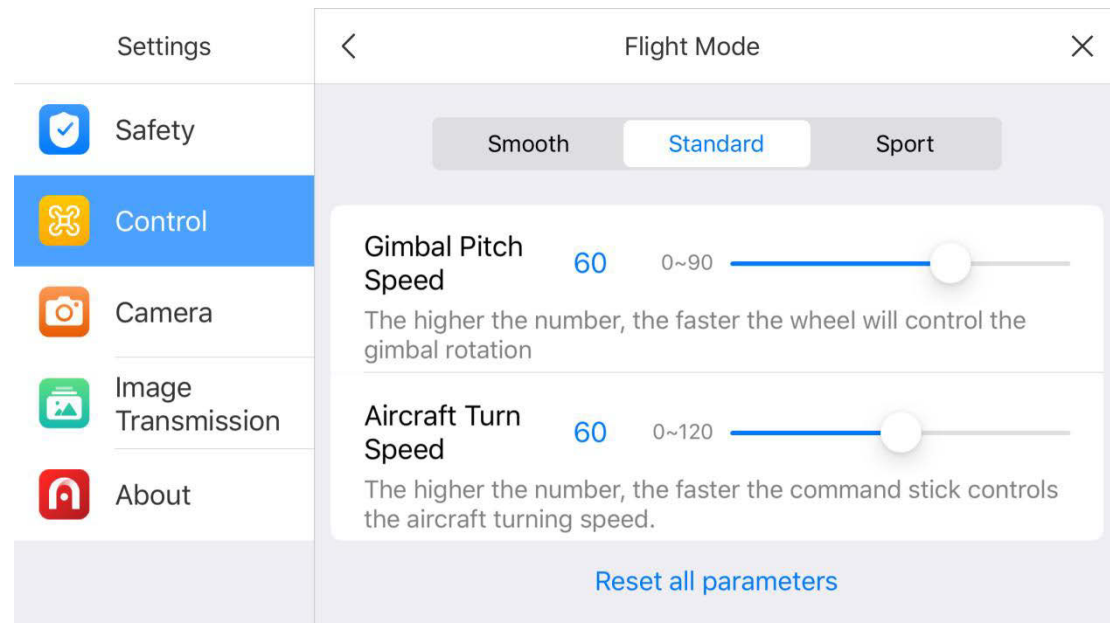
2.6 Intelligent flight control system

EVO Lite series is to conduct stable and convenient flight control by its built-in intelligent flight control system. This system can support multiple advanced functions, including course reversal, fail-safe, positioning system, etc. The working description of each module is as shown in the table below.

Intelligent flight control system module	
Module	Description
IMU	Measure the three-axis attitude angle (or angular rate) and acceleration of the aircraft.
Compass	Measure geomagnetic field and provide course reference of aircraft.
GNSS receiver	Receive the GPS signal to determine longitude, latitude and altitude.
Barometer	Measure atmospheric pressure to determine the altitude of aircraft.
Ultrasonic sensor	Measure the distance between aircraft and ground.
Binocular vision system	Support the forward, backward and downward binocular vision.

2.6.1 Flight mode

EVO Lite series supports the standard, ludicrous and smooth modes which can be switched by APP.



1. Standard mode

Use the GPS module and downward vision system to realize the accurate hovering, steady flight and quick shot functions of aircraft. In the case of good GPS signal, the GPS will be used for precise positioning; In the case of poor GPS signal, the vision system will be used for positioning when the light conditions are as required. If the light conditions meet the requirements of vision system, the maximum flight attitude angle will be 25°, and the maximum flight speed will be 10m/s.

2. Ludicrous mode

Use the GPS module and downward vision system to realize accurate hovering. After the aircraft control sensibility is adjusted, the maximum flight speed will rise to 18m/s, the maximum rising speed will be 5m/s, and the maximum descending speed will be 4m/s.

3. Smooth mode

Limit the flight speed based on standard mode, namely, the maximum flight speed as 5m/s, the maximum rising speed as 3m/s and the maximum descending speed as 2m/s, to make the aircraft more stable during shooting.



The aircraft will enter the attitude (ATTI) mode when the GPS signal is poor, the compass is disturbed and the vision positioning conditions fail to be met. Under the ATTI mode, the aircraft will drift horizontally, and the intelligent flight function and the return function will not be available. Therefore, the aircraft under this mode cannot realize spot hover and automatic brake, so it shall be landed on a safe position as soon as possible to avoid the occurrence of accident. User shall try to avoid the flight in poor GPS signal, non-ideal light condition and narrow space, in order to avoid the flight accident due to the ATTI mode.

ⓘ Important

- In the case of flight under the ludicrous mode, the flight speed of the aircraft will increase largely compared with the normal mode, thus resulting in the substantial increase in braking distance. In the case of flight without wind, user shall reserve at least 30m of braking distance to ensure flight safety.
- In the case of flight under the ludicrous mode, the descending speed of the aircraft will also increase largely; in the case of flight without wind, user shall reserve at least 10m of braking distance to ensure flight safety.
- In the case of flight under the ludicrous mode, the attitude control sensibility of the aircraft will increase largely compared with the normal mode. Specifically, any operation in a small extent on the remote controller will cause a substantial flight action of the aircraft. In the actual flight, user shall reserve the enough flight space to ensure flight safety.
- After starting shooting under the standard mode or the smooth mode, in order to ensure the shooting stability, the flight speed will be limited when the gimbal pitch angle is close to -90° or 0° . In the case of high wind, the limitation will be relieved to improve the wind resistance of the aircraft. At this time, the gimbal shake may occur.

2.6.2 Intelligent flight features



1. Auto return

The return function is enabled only when there is good GPS signal. To want to enable the return function manually, long press the return button () on the remote controller or click the return icon () in Autel Sky App. Upon receipt of the instruction, the aircraft will automatically return and land on the preset return point.

ⓘ Important

- The return height (relative to take-off point) is 30m by default. If you enable the function

when your aircraft is lower than the altitude, the aircraft will rise to 30m and then return.



- If you enable the function within a radius of 10m around the return point, the aircraft will automatically land on the spot.
- EVO Lite series can use its forward vision system to detect and avoid the obstacles on the flight course. If the forward vision system is not enabled during return, the aircraft will not automatically avoid the obstacles. Press the pause button () on the remote controller or click the pause icon () in Autel Sky App to quit the auto return mode, and recover the control on the aircraft.

2. Fail-safe

The fail-safe function is to help EVO Lite series UAVs to return automatically or land at its current position when necessary. The fail-safe will be activated in the following situations:

1) Communication outage

If the communication between the aircraft and the remote controller interrupts for 3s, the fail-safe function will be activated.

If there is available GPS signal when the fail-safe function is activated, the aircraft will enable the auto return function. Otherwise the aircraft will land on the spot. After communication restoration, you can still press the pause button () or click the pause icon () in Autel Sky App to recover the control on the aircraft.



2) Low battery of aircraft

The aircraft will continuously calculate the battery level required to the return point. When the battery level reaches the maximum level required to the return point, Autel Sky App will show a notification. The fail-safe will be activated to start the return process. Similarly, you can also press the pause button or click the pause icon in Autel Sky App to recover the control on the aircraft.

A. When the aircraft battery level reaches the set threshold (25% by default), you will receive one low battery alarm, and the fail-safe will be activated to start the auto return of aircraft.

B. When the battery level reaches 15%, you will receive one serious low battery alarm, and the aircraft will automatically land on the spot.

Remark

- When the aircraft battery level reaches 25% (low battery alarm), if the horizontal distance between the aircraft and the return point is less than 50m, the aircraft will not carry out the auto return process.
- If there is no available GPS in the case of low battery alarm, the aircraft will not carry out the auto return process. The aircraft will enter the ATTI mode and continue to be controlled. When the battery level reaches 15% (serious low battery alarm), the aircraft will land automatically.
- In emergency, you can press the pause button () or click the pause icon () in Autel Sky App to pause landing, and manually make the aircraft fly to the nearest safe landing point.

3. Landing features

1) Landing protection

When the aircraft arrives above the return point, the landing protection function will be activated to detect the ground environment. If the ground is flat, the aircraft will land automatically. Otherwise it will hover on the spot to wait for the next instruction.

2) Precise landing

When the precise landing function is activated, the aircraft will scan and match the topographic features. If the current topography is matched with that at the take-off point, it will land as close to the take-off point.

⚠ Important

- The aircraft will record the take-off point as the default return point. The precise landing can take effect only when the return point is not refreshed during flight.
- Select an open and well-lit area (such as grass lawn) as the take-off point.
- When the aircraft is ready for precise landing, it is necessary to ensure that the take-off environment has no change.

2.6.3 Compass calibration

The compass has been calibrated in factory, with no need for calibration by user normally. If the compass indicates the error information, or the flight direction of the aircraft is not consistent with the control input, or the flight place is far from the calibrated distance, please carry out the following calibration procedure.

⚠ Warning

- The compass is very sensitive to the electromagnetic interference that may cause the compass error and the flight quality reduction. If the company still fails to be used after calibration, it is allowed to move the aircraft to other places for recalibration.

In the case of compass calibration, please pay attention to the following points:

- Select an open outdoor area.
- Keep away from the magnetic interference source, such as magnet or concrete reinforcement. The calibration result may also be affected if close to a large structure.
- Keep away from the underground and overhead power lines.
- Never carry the ferromagnetic materials (such as key or magnetic ornaments) with you.
- Keep away from all electronic devices (such as mobile device) that may interfere with the calibration.

Calibration procedure:

1. Unfold the aircraft and open Autel Sky App and enter the menu setting interface, choose the “safety” option, click the “compass calibration” to the calibration interface, and then click the “start” key.



- Please stay away from metal or charged objects, and keep the aircraft about 1.5 meters (5 ft) above the ground
- Do not power off the aircraft or start the motors

Start

2. Hold the aircraft and make it horizontal, and then rotate the aircraft till the rear LED indicator of the aircraft is normally on green.



- Please stay away from metal or charged objects, and keep the aircraft about 1.5 meters (5 ft) above the ground
- Do not power off the aircraft or start the motors

As shown in the picture, rotate the aircraft 360 degrees horizontally

3. Hold the aircraft and make it vertical with the head downwards, and then rotate the aircraft till the rear LED indicator of the aircraft is normally on green.



- Please stay away from metal or charged objects, and keep the aircraft about 1.5 meters (5 ft) above the ground
- Do not power off the aircraft or start the motors

As shown in the picture, rotate the aircraft 360 degrees vertically

4. Hold the aircraft with the side downwards, and then rotate the aircraft till the rear LED indicator of the aircraft is normally on green.



- Please stay away from metal or charged objects, and keep the aircraft about 1.5 meters (5 ft) above the ground
- Do not power off the aircraft or start the motors

As shown in the picture, rotate the aircraft sideways 360 degrees

Remark

- If the calibration fails, the rear indicator of the aircraft will be normally on red, and APP will also remind the calibration failure. At this point, repeat the above procedure.

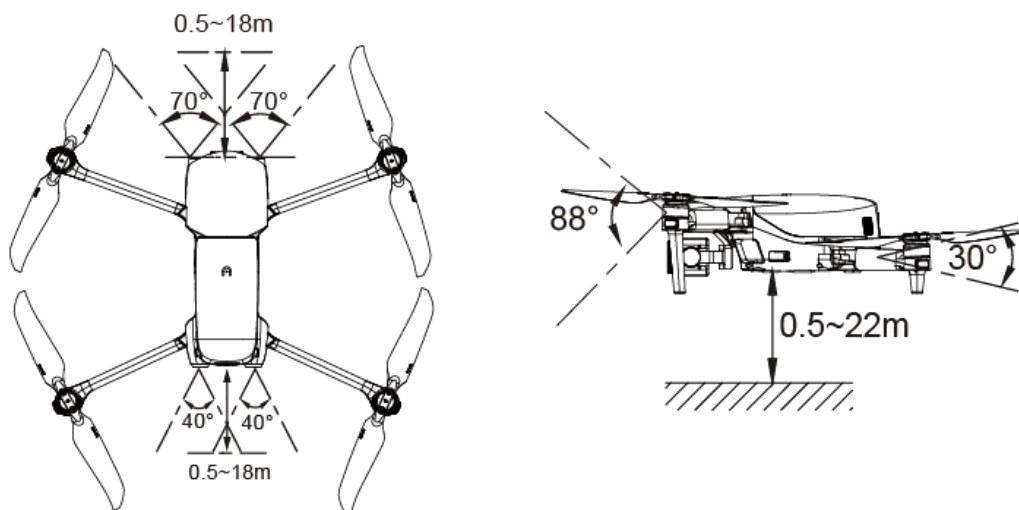
- Please keep away from the metal or electric object, and maintain the aircraft at about 1.5m above the ground.

2.7 Binocular vision system

The vision system use the image data to calculate the distance between the aircraft and the potential obstacles. Once any obstacle is detected, the system will stop the aircraft. The ultrasonic sensor modules (one receiving, one transmitting) are also installed below the aircraft to provide the reference height of the aircraft above the ground and cooperate with the vision system to calculate the position information of the aircraft.

Binocular vision system			
System	Position on aircraft	Sensing range of obstacle	Viewing angle
Forward	The front of the aircraft	0.5 ~ 18 m	Horizontal < 70°, vertical < 88°
Backward	The tail of the aircraft	0.5 ~ 18 m	Horizontal < 40°, vertical < 30°
Downward	The bottom of the aircraft	0.5 ~ 22 m	Horizontal < 40°, vertical < 30°

The figure below shows the covering angle of each binocular vision system:



Remark

- The vision system has dead zone outside its covering range. It is necessary to pay attention to the ambient environment and App notice during flight to ensure safety.
- Do not operate the aircraft in a complex environment where there is insufficient light, small object (such as twig, line, net), moving object, transparent surface (such as window) or reflected surface (such as mirror).
- In the case of flight with car or other vehicles, please select a field or closed road for driving. Never use it on highway.

2.7.1 Precautions

1. Ensure that the aircraft is in GPS or vision positioning mode.
2. The aircraft shall take off when the flight LED indicator flashes green slowly or red twice.
3. When the GPS signal is weak or fails to meet the vision positioning requirement, it is necessary to be extremely careful.
4. The vision system and ultrasonic system are affected by the surface brightness and texture below the aircraft. Avoid flying above the following surfaces:
 - Surface of pure color (such as pure black, pure white).
 - Surface with high reflection or inverted reflection (such as ice surface).
 - Water surface or transparent surface.
 - Surface with frequently changing light.
 - Particularly dark or bright object surface.
 - Moving surface (such as road with heavy traffic).
 - Sound absorbing surface (such as thick carpet).
 - Surface with sparse texture (such as electric pole, pipeline, etc.).
 - Surface composed of highly repetitive pattern (such as tile).
 - Tiny obstacle (such as tree branch, electric wire, etc.).
5. Avoid flying in rainy and foggy weather or other scenes where the visibility lower than 100m.
6. Before flight check the vision system surface to ensure that the binocular camera lens and sensor are clean and not covered.

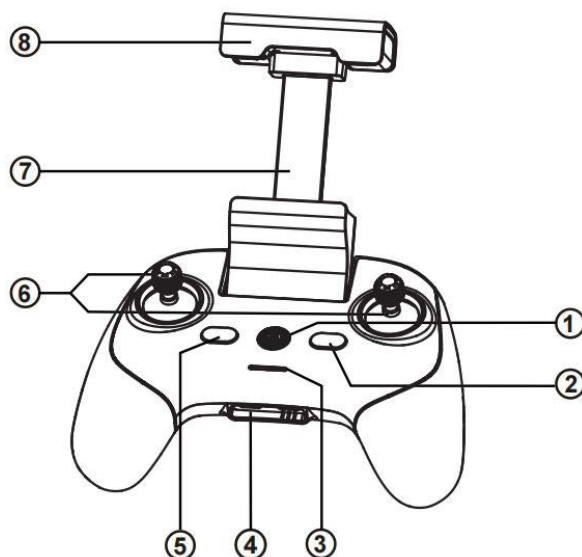
- Remove the surface film, sticker and other covers.
- Clean of water drop, fingerprint, dirt, etc. (by non-dust cloth instead of alcohol and other organic solvents).
- Return to repair if the surface has shedding, crack, scratch or wear, etc.

7. In order to avoid disturbing the ultrasonic system, do not use 40 kHz ultrasonic device, such as ultrasonic range finder, fault detector, cleaner or welding machine.

Chapter 3 Remote controller

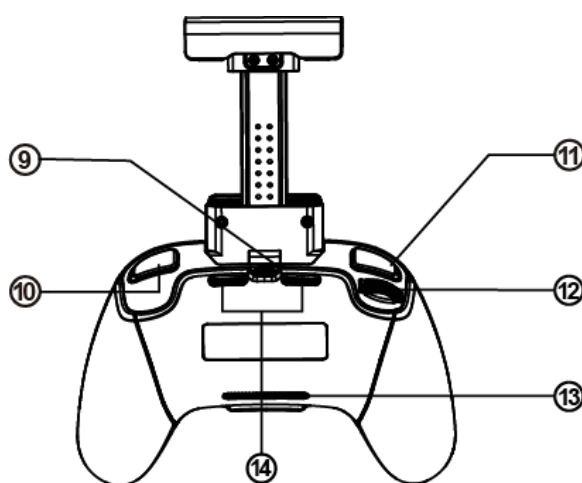
EVO Lite series adopts the new generation of Autel Skylink image transmission technology of Autel Robotics, has strong anti-interference capability and supports the double-emission and double-receiving of 2.4GHz, 5.8GHz and 5.2GHz. It can complete the control and setting of aircraft and camera within at most 10km communication distance (FCC, no interference, no blocking) and can display a high-definition picture in mobile device in a real-time manner by Autel Sky App. The telescopic mobile device support can stably support the mobile device, and the built-in battery of remote controller is 3930mAh that can work for about 3.5h.

3.1 Components description



① Power button	Long press the button for 2s to turn on/off the remote controller.
② Pause button	Indicate the suspension of the autonomous flight of aircraft and hovering on the spot or the recovery of the autonomous flight.
③ Power indicator	Indicate the current battery level of remote controller.
④ Charging interface	It is used for charging the remote controller and adjusting parameters

⑤ Return button	Command the aircraft to return waypoint.
⑥ Command stick	Control the direction and motion of aircraft.
⑦ Mobile device support	It is used to fix the mobile device with the adjustable viewing angle.
⑧ Antenna	The frequency for communication with aircraft is 2.4GHz / 5.8GHz / 5.2GHz.




⑨ Mobile device interface	It is used to connect the mobile device.
⑩ Photo/video button	Start or stop taking photo/recording video.
⑪ User-defined button	Use Autel Sky to set functions.
⑫ Gimbal pitching dial	Control the pitch angle of camera gimbal.
⑬ Air inlet	It is used for remote controller cooling.
⑭ Air outlet	It is used for remote controller cooling.


3.2 Use remote controller

3.2.1 Turn on/off remote controller

1. Startup

Press the power button () for 2s till that a short beep sound appears.

2. Shutdown

Press the power button () for 2s till that a short beep sound appears.

Important

- Be sure to turn on the remote controller before the aircraft power supply is connected.
- Be sure to turn off the aircraft power switch before turning off the remote controller.

3.2.2 Charge remote controller

1. Connect the special charging cable to the USB-C interface at the bottom of the remote controller. Full charge takes 2h.



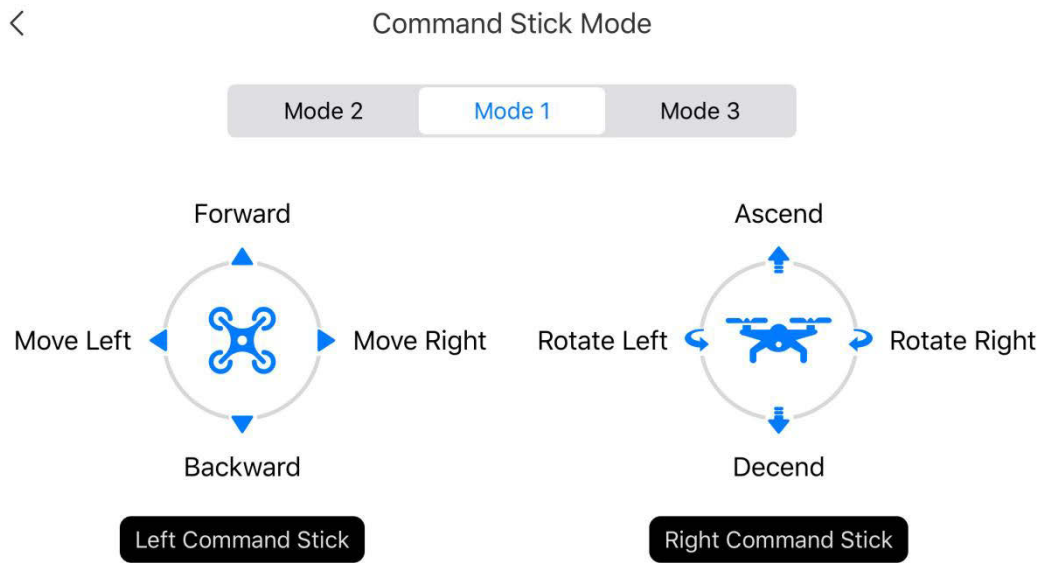
2. In the case of charging, the power indicator of the remote controller will enter the mode of waterfall light. After completion of charging, the four indicators will be normally on green. At that time, you will hear two beep sounds.

3. Disconnect the charger from the remote controller after completion of charging.

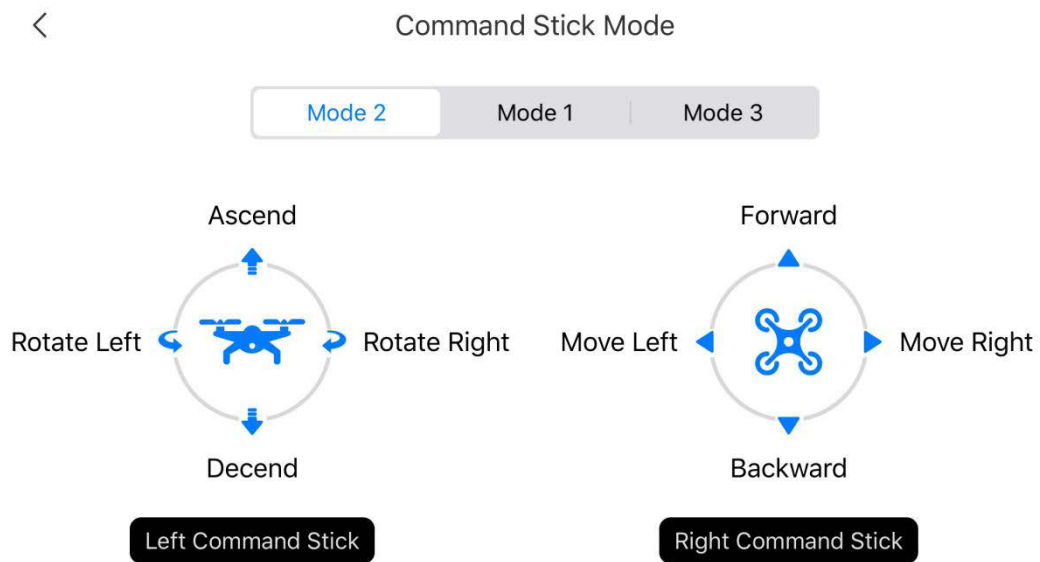
3.2.3 Remotely control aircraft

The remote controller includes Mode 1, Mode 2 and Mode 3 based on operation habit and can also be self-defined in Autel Sky App. The beginner is recommended to use the Mode 2 as control mode.

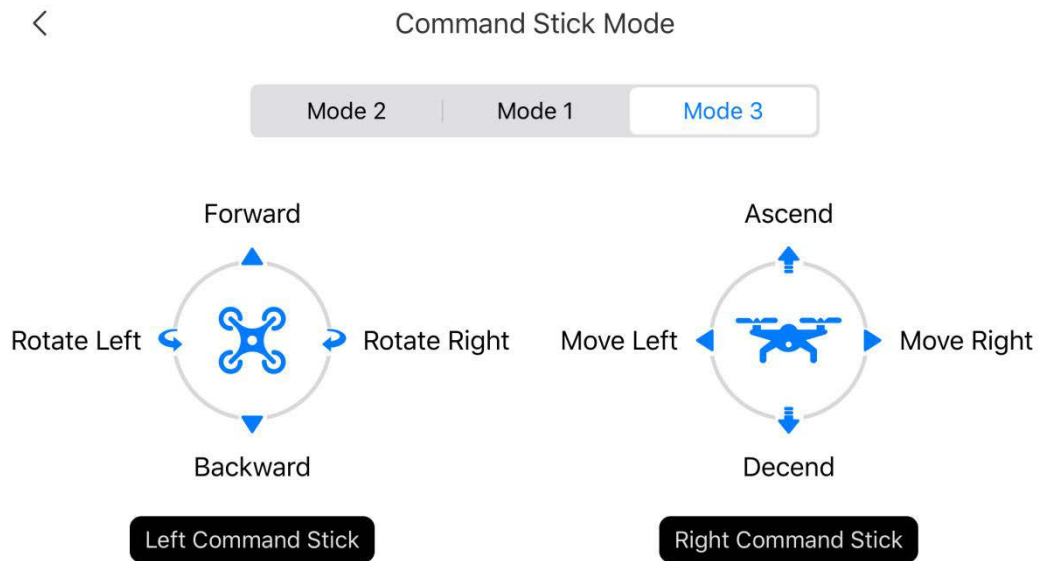
Mode 1



Mode 2



Mode 3



ⓘ Important

- The control mode of the remote controller is American manipulator by default.

3.2.4 Control camera

1. Photo/video button: short press the button to take photo or start/stop recording video.
2. Gimbal pitch control thumbwheel: toggle it to control the pitch angle of gimbal.

3.3 Remote controller calibration

If the command stick is abnormal (the remote controller falls on the ground or the flight direction of the aircraft is not consistent with its operation direction), the remote controller is recommended to be calibration. You can calibrate the remote controller by using Autel Sky App.

1. Please turn off the aircraft power supply before operation.
2. Open Autel Sky App, enter the setting interface, click the “control” option, click the “remote controller calibration”, and then click the “start” key.



RC Calibration



Please turn the command stick and the scroll wheel to the maximum in each direction, and repeat it a few times.

Start

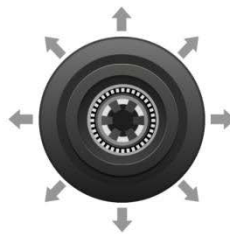
3. Move the left and right command sticks and thumbwheel in turn to their maximum extent in the direction of the arrow on App. When the calibration of a direction is completed, the arrow in the direction will become blue.



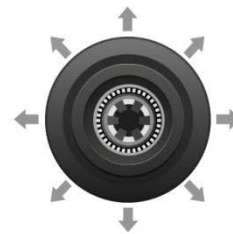
RC Calibration



Wheel



Left Stick



Right Stick

Please turn the command sticks and wheels to its maximum and repeat



3.4 Remote controller pairing

The remote controller and the aircraft have been paired in the factory. If the remote controller needs to be paired again after replacement, please follow these steps:

Method 1

1. Turn on the aircraft and the remote controller, double-click the aircraft battery button. The LED on the rear of the aircraft will flash quickly to show it is ready to pair.
2. Connect your remote controller and mobile phone, operate Autel Sky App, click “Connect New Aircraft” in “Personal Center,” and follow the pairing instruction.
3. After successful pairing, the LED at the tail of aircraft will be on for 5 seconds and then flash slowly. The App will switch to the image transmission interface.

Method 2

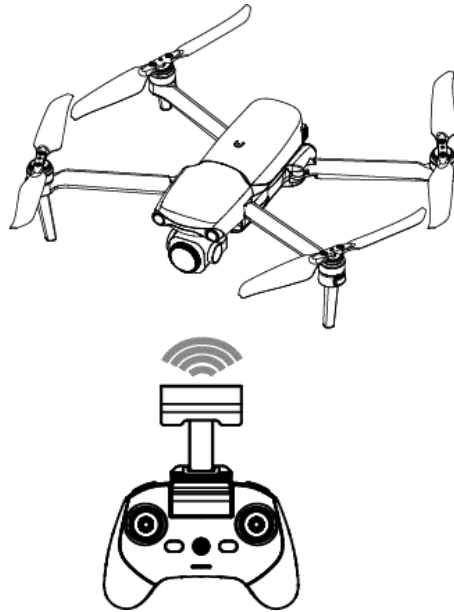
1. Turn on the aircraft, double-click the aircraft battery button. The LED on the rear of the aircraft will flash quickly to show it is ready to pair.
2. Press and hold the power button () and the home button () on the remote controller at the same time for 3 seconds to turn on the remote controller. The remote controller indicator will flash quickly to show it is ready to pair.
3. After successful pairing, the LED at the tail of aircraft will be on for 5 seconds and then flash slowly.

Important

- In the case of frequency pairing, the aircraft shall maintain within 0.5m from remote controller.
- If a new remote controller successfully pairs its frequency with the aircraft, then the old remote controller will not be connected with the aircraft.
- If your mobile phone is disconnected from the remote controller in the case of pairing, please reconnect them within 60s.

3.5 Optimum communication range

When controlling the aircraft, it is necessary to timely adjust the orientation and direction between remote controller and aircraft. When the antenna plane directly faces the aircraft, the signal quality between the remote controller and the aircraft can achieve the optimal condition. It is necessary to maintain the aircraft within the best communication range when controlling the aircraft.



Remark

- Keep the remote controller facing the aircraft icon on the Attitude Indicator to get the best image transmission signal.

Chapter 4 Autel Sky App

Autel Sky App integrates flying, shooting, editing and sharing functions, with the built-in simple and beautiful interactive interface, straightaway flight teaching and powerful and usable new editor, to enable that the user can get a quick start and enjoy the aerial photography.

4.1 Activation

4.1.1 Device activation

When using the EVO Lite series for the first time, follow these steps to activate:

1. Unfold the aircraft arms, remove the gimbal cover, and turn on the aircraft.
2. Turn on the remote controller, connect the remote controller and smart phone, and run the Autel Sky App.
3. After the remote controller and the aircraft are paired successfully, the App will automatically jump to the activation page. Click "Next" to go to the product terms of use page.

Activate EVO Lite+

When connecting the aircraft for the first time, it needs to be activated to obtain warranty service.



Next

4. Check the box "I have read and agree to abide by the above terms and conditions" and then click "Activate." If the device is successfully activated, the app will prompt "Activated successfully."

Autel Robotics UAV Product Terms of Use

Autel Robotics Customer Service Team is always ready to provide help via chat or email (support@autelrobotics.com)

Note:

The content is subject to update without notice.

You can check the latest version of these terms and guidelines on Autel Robotics' official website.

<https://www.autelrobotics.com>

I have read and agree to these terms and conditions

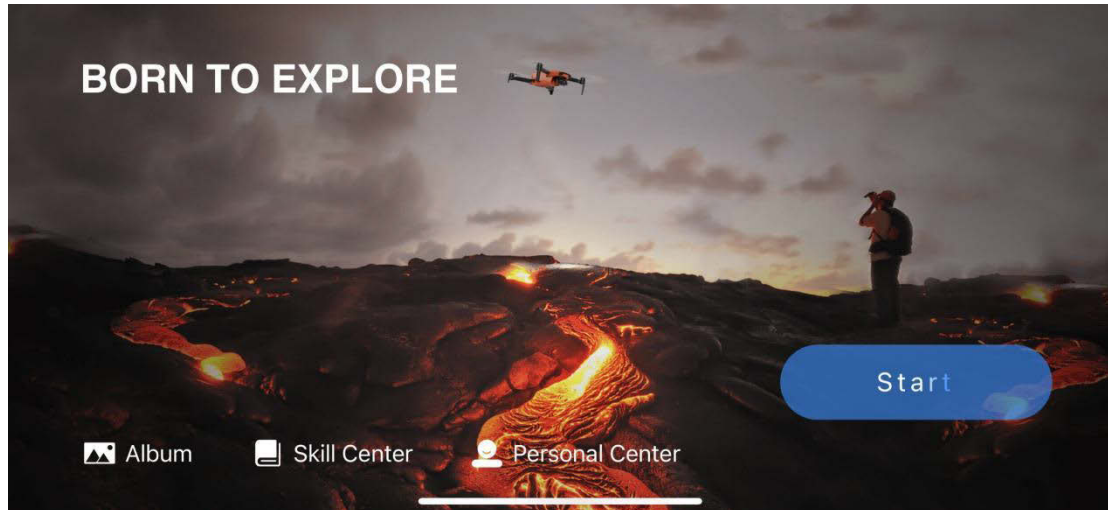
Activation

ⓘ **Important**

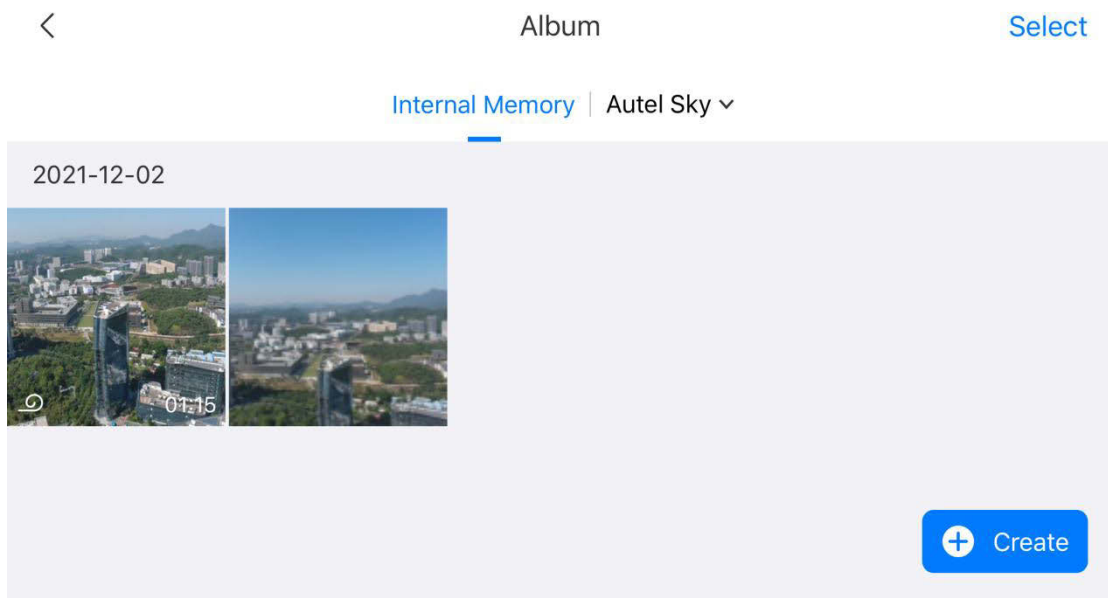
- The user can purchase the Autel Robotics Care only after the activation is successful.
- The remote controller and the aircraft are paired by default at the factory. After replacing the remote controller or the aircraft, refer to **section 3.4** for pairing.

4.2 Interface introduction

4.2.1 Home page



1. Album



User can view and edit photos and videos in the album. The album includes SD card, internal memory, and device storage (Autel Sky) options. Photos and videos can be downloaded to local album. Click the “Create” option to select templates or tools for manual clipping.

Remark

- If the aircraft is not connected or the SD card is not inserted, the SD card option will not

be displayed. The device storage is the default option.


2. Skill center

Click the “Skill Center” option to select the product type and view the videos and instructions.


3. Personal center

View the personal account, flight log, user terms, Autel care, and device management. Other settings include quick connection, device management, clear cache, language, Autel Robotics Care, connect new aircraft, and novice guide.









< Account


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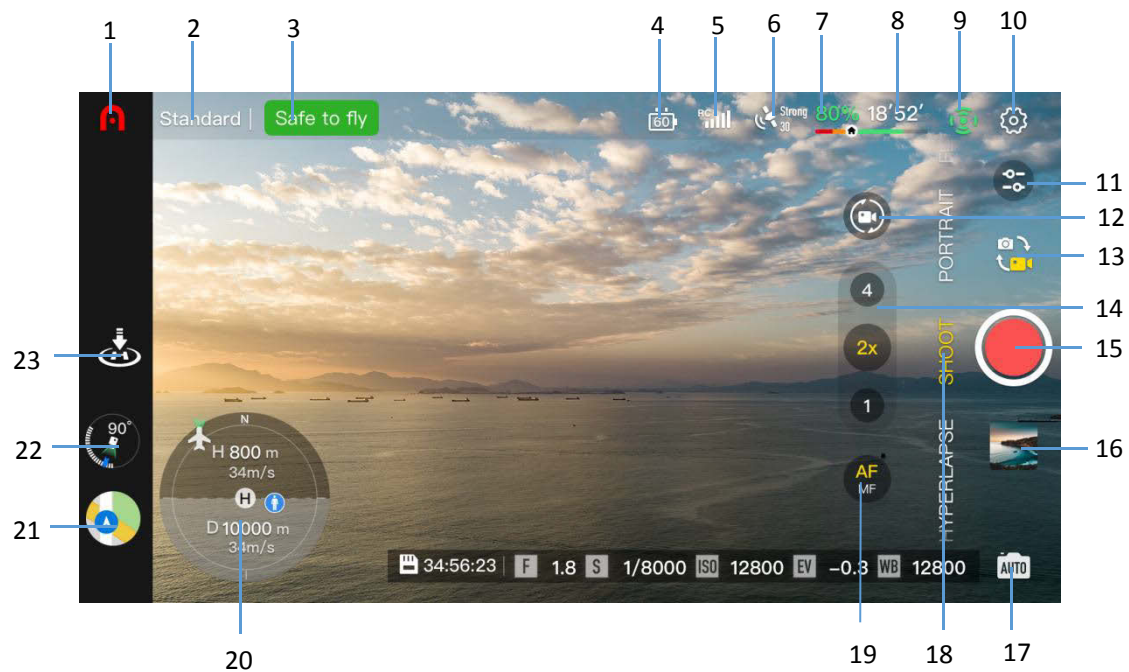
0.0 H | 0.0 Km | 0
Total Flight Time | Total Distance | Total Flights

Flight Logs 

Version V1.0.1
Copyright © 2021 Autel Robotics

-  Quick Connection 
Enter the flight menu once the aircraft connected
-  Device Management >
-  Clear Cache 0KB 
-  User Terms >
-  Language >
-  Connect New Aircraft >

4.2.2 Camera interface



⚠ Important

- The user can slide the image transmission interface up to hide all the information and only display the image transmission screen.

1. Home page

Click it to return to homepage.

2. Flight Mode

Indicates the current flight mode.

3. Device status

Indicates the flight status and various warning information of aircraft. In the case of abnormal status, click it to view the detailed information.

4. Remote controller's battery level

Indicates the current remaining percentage of the remote's battery.

5. Image transmission signal strength

Indicates the image transmission signal strength between the aircraft and remote controller.

6. GNSS status

Indicates current GNSS signal strength and numbers of satellites searched.

7. Aircraft battery level

Indicates the current remaining percentage of the aircraft battery.

8. Remaining flight time

Indicates the remaining flight time of aircraft based on current battery level.

9. Obstacle avoidance

Indicates whether the obstacle avoidance sensors have been turned on.

10. System setting

1) Safety

- Novice mode: with the novice mode activated, the speed, height, and distance of aircraft will be limited.

- Home Point: set aircraft's current location as a home point, or manually define another position for it to return to.

- Flight restriction: set the maximum flight ceiling, maximum distance, and return height.

- Compass: view the compass condition and recalibrate in the case of compass abnormality.

- IMU: view IMU condition and make calibrations in case of IMU abnormality.

- Battery information: view battery temperature, battery health value, and the number of discharges. Set low battery alarm, serious low battery alarm threshold, and turn on/off battery protection mode (discharge every 3 days by default).
- Locate my drone: start the flashing light and beeping mode to find a missing aircraft.
- Advanced setting: turn on/off the vision-based obstacle avoidance system, obstacle detection radar map, downward vision LED, aircraft LED indicator, and attitude mode takeoff.

2) Control

- Unit: Set default units to metric (km/h or m/h) or imperial (mph/h)
- Command stick mode: set the command stick mode as mode 1, mode 2, or mode 3.
- Flight mode: set the control speed of the aircraft and gimbal. Options include smooth mode, standard mode, and ludicrous mode.
- RC customizable button: click or double-click the customizable button on the left to set a custom function.
- RC calibration: follow the prompt steps to calibrate the remote controller. Calibration is required when the flight attitude is inconsistent with the direction of the remote controller stick.
- Gimbal setting: set the working mode (stabilized / FPV) and gimbal angle (center/downward); activate gimbal calibration and gimbal manual adjustment, and enable gimbal pitch adjustment upwards by 30°.

3) Shooting

- General setting: photo format (JPG/DNG/JPG+DNG), video format (MP4/MOV), video encoding (H.265/H.264), storage location (Internal Memory/SD card), formatting. Select settings such as audio recording during video recording, caching during video recording, and camera reset.
- Shooting assist function: histogram, overexpose warning, grid, download aerial material, defog, anti-flicker, and other settings.

4) Image transmission

- Image transmission mode: HD, smooth, 2.7K.

5) About

- View device serial number, firmware version, App version, and other information.

11. Shooting setting

Set the shooting parameters.

12. Lens rotation

By clicking this icon, the lens will rotate.

ⓘ Important

- Only the EVO Lite supports lens rotation.
- Lens rotation can only be activated in video, quick shot, hyperlapse, and standard night modes. The user should set rotation to be clockwise or counterclockwise in settings to make the rotate icon visible in the image transmission display.
- Rotation angle and rotation time can be set when presetting the rotation direction. The horizontal shooting supports 360° or 720° rotating, while the vertical shooting only supports 360° rotating.

13. Photo/Video Switch

Switch between photo mode and video mode.

14. Zoom

Switch the zoom factor.

15. Shooting button

Click the button to trigger the camera or start/stop recording video.

16. Album

Click to enter the album page.

17. Pro/Auto mode switch

In Pro mode, the user can adjust the shutter speed, aperture size, exposure value, white balance, and sensitivity value. While in Auto mode, the system will automatically adjust the

above parameters.

ⓘ **Important**

- Only the EVO Lite+ supports aperture adjustments.

18. Shooting mode

Photo: set shooting mode between (single/burst/AEB/timer), resolution, white balance, HDR, etc.

Video: set shooting while recording, video frame rate, resolution, HDR, etc.

Quick shot: select from four cinematic modes: fade away, rocket, orbit, flick.

Portrait: it is available for taking photo or recording video, setting photo/video resolution, and automatically adjusting the shooting distance of aircraft, etc.

Pano: landscape, portrait, wide-angle, spherical. Based on the selected panorama type, the aircraft will automatically take several photos and composite them.

Night: it is available for taking photo or recording video. It is recommended to shoot with night mode in low light.

Hyperlapse: provide two time-lapse shooting modes: manual and orbit. Set shooting time, shooting quantity, duration of the composited video, maximum flight speed of aircraft, save original images, etc.

19. AF/MF Switch

MF indicates manual focusing;

AF indicates automatic focusing.

20. Attitude Indicator

Display the current aircraft position, aircraft nose orientation, operator position, home point position, and flight status parameters.

H 800m 34m/s: Vertical distance and flight speed between aircraft and home point.

D 10000m 34m/s: Horizontal distance and flight speed between aircraft and home point.

21. Map

Click once to indicate the small map. Click the small map again to switch from the image transmission interface to the large map.





- No-fly zone reminder: view the information on no-fly zone: height limit zone, etc.
- Compass: see orientation.
- Map mode: select normal, satellite, or blend layer.
- Positioning: quickly lock the position of aircraft, remote controller, or home point on the map.
- Find my drone: find the missing aircraft by activating flashing and beeping.

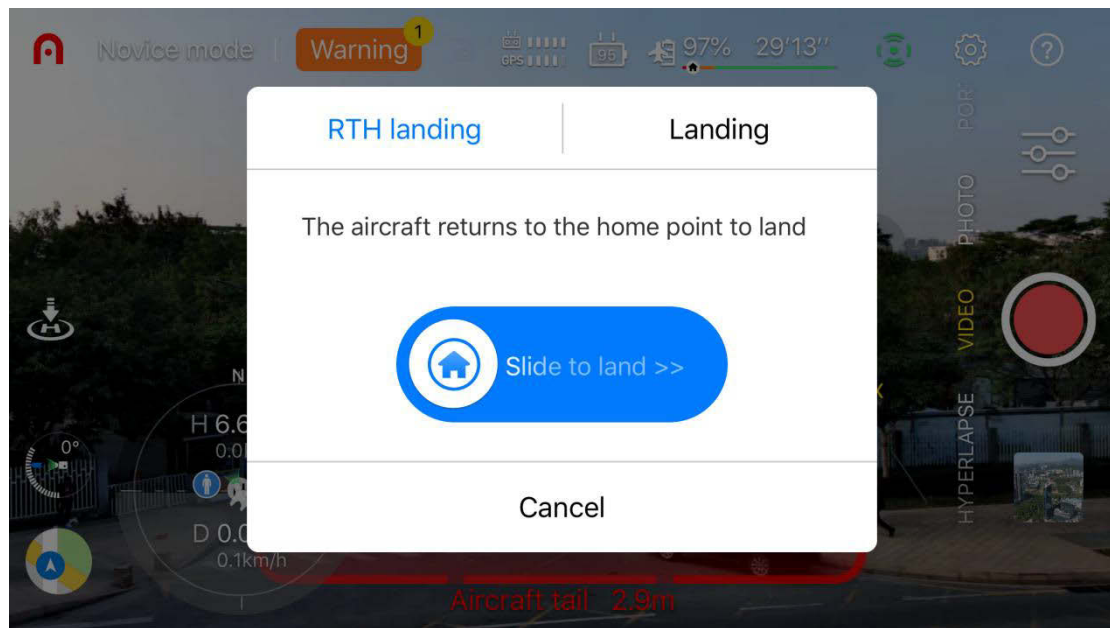
22. Gimbal

Display the pitch angle of gimbal.

23. Tap to takeoff/land

Click the takeoff () / landing () icon, hold and scroll it to takeoff/land the aircraft.

The aircraft can be directed to land at the home point, or vertically land at its current position.



 **Remark**


- When the height of the aircraft is less than the set return height (30 meters by default), it will rise to the return height and then return to the departure point to land. Please make sure that there are no obstacles above the aircraft.

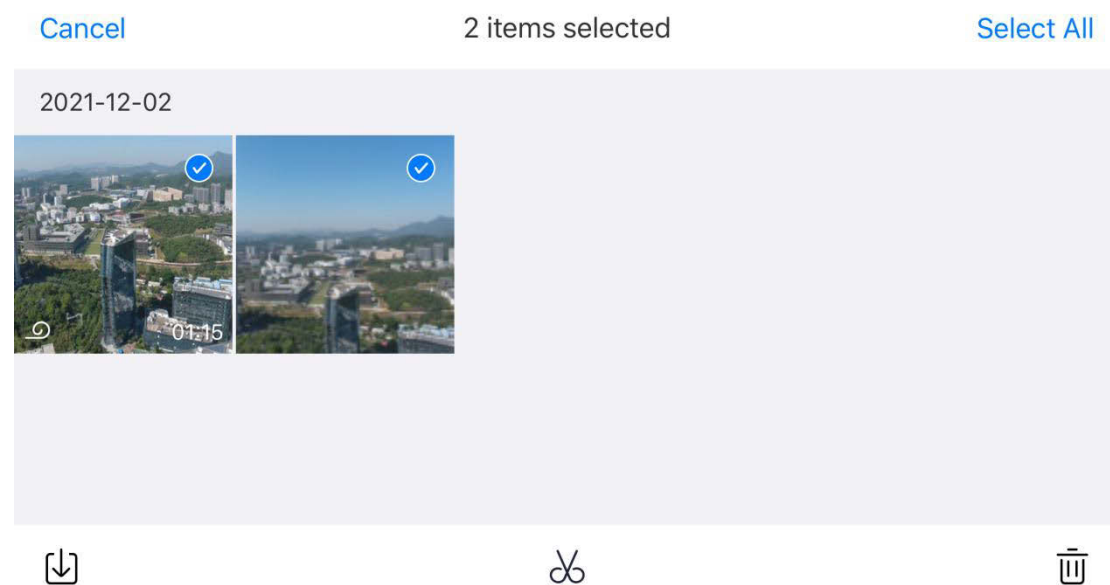
4.3 Camera function

4.3.1 Quick transfer

The photo and video can be directly downloaded from EVO Lite aircraft to the mobile device at a transmission rate up to 20MB/s through Autel Sky App.

Operating procedure

1. Turn on the aircraft power supply and place the aircraft on the ground.
2. Connect mobile phone to the remote controller, operate Autel Sky App, and pair aircraft and the remote controller.
3. After pairing, open the album, select the required materials and then click the download icon () to realize high-speed download.



ⓘ Important

- Please use the quick transfer function in an environment free of interference or blockage and away from router, bluetooth headset and other interference source.
- In the country and region where 5.8GHz/5.2GHz is allowed, the maximum download rate can be achieved in an environment free of interference or blockage; if 5.8GHz/5.2GHz is not allowed, the use of 2.4GHz will limit the download rate.

4.3.2 One-click quick shot

The quick shot has four shooting modes: fade away, rocket, orbit and flick. The aircraft automatically flies according to the selected shooting mode and continues to shoot for a specific time. Finally, it automatically generates a short video to support continuous editing and rapid sharing in the App.

Fade away: the aircraft rises while moving back, and the lens follows the object for shooting.

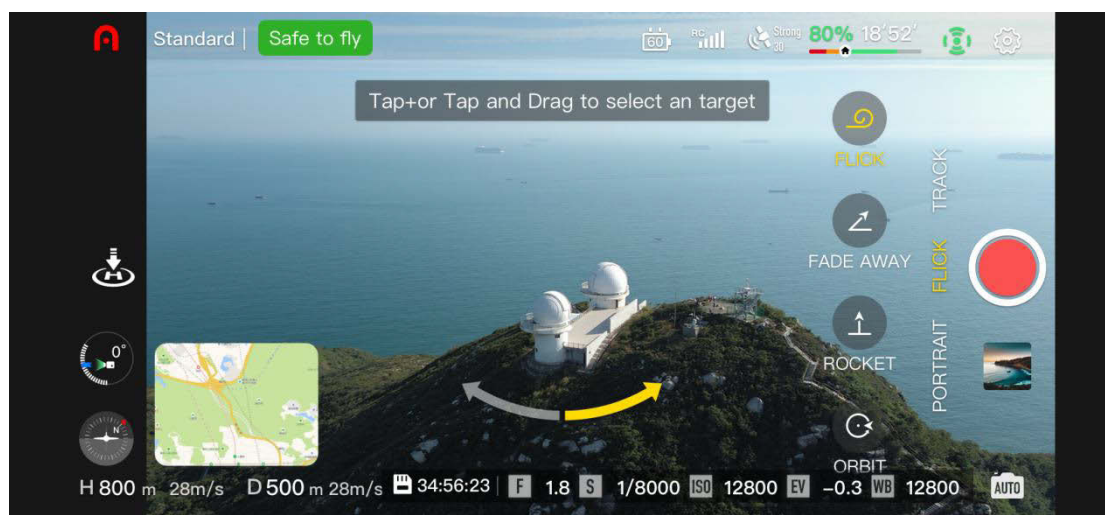
Rocket: the aircraft rises vertically after arriving above the object, and the lens looks down the object for shooting.

Orbit: the aircraft takes the object as a center and makes a surrounding flight at a specific distance for shooting.

Flick: the aircraft takes the object as a center and adopts the system-defined arc route for shooting.

Operating procedure


1. Ensure that the battery is full. Start the aircraft to more than 2.5m above the ground.
2. Switch the shooting mode to short film (when a different one-click short film mode is selected, there will be the description of relevant short film), and show the shooting effect. Ensure that the surrounding has no obstacle and is suitable for automatic flight.



3. After selecting any short film mode, click “+” on the object on the screen or use your finger to select the object, and click the photo/video button, The aircraft will automatically fly and record video and return the starting point after the completion of shooting.

4. After shooting, click the album to view the short video, and continue to edit it in APP and

share it to social platforms.

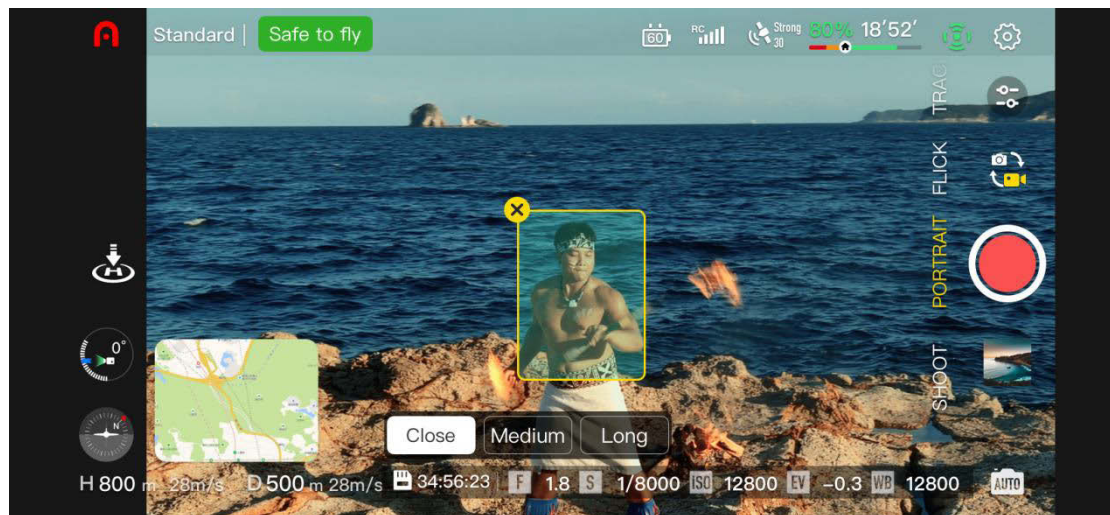
5. After user clicks the photo/video button on APP camera interface, uses the command stick of remote controller or short presses the remote controller pause button () to quit the short film shooting, the aircraft will brake and hover at current position, and the materials taken before such interruption will be saved in album.

Important

- Please use the short film shooting in an open environment free of obstacle and blockage.
- Pay close attention to any pedestrian, vehicle, animal or other obstacles in the surrounding environment to avoid the occurrence of accident.
- The distance between aircraft and remote controller shall maintain within 30m, and the aircraft shall be within the range of operator's visibility.
- Please do not use the one-click short film function in the case of the poor GPS signal due to building or blockage, otherwise this may cause unstable flight path of aircraft or other accidents.
- When using the one-click short film function, user shall abide by the local laws on privacy right.
- In the following scenes, the vision system of Lite series will not operate normally, so it is inadvisable to use the one-click short film function:
 - When the object being shot is blocked for long or located outside the range of visibility;
 - When the object being shot is more than 50m from the aircraft;
 - When the object being shot has very similar color or pattern with the surrounding environment;
 - When the object being shot is located in the air;
 - When the object being shot moves quickly;
 - In a particularly dark (illumination less than 300 lux) or bright (illumination greater than 10,000 lux) environment.

4.3.3 Portrait Mode

The portrait mode automatically recognizes the subject through the AI algorithm to highlight the subject. The user can choose a different scene mode, such as close, medium, or long shots according to the number of people.



Close: suitable for 1-3 people.

Medium: suitable for 3-5 people.

Long: suitable for 5-10 people.

Operating procedure

1. Make sure the aircraft is fully charged. Run the aircraft and rise to 2.5 m or higher.
2. In the Autel Sky App, enter the camera interface and select the portrait mode.
3. The user can select the subject and scene on the interface, and the aircraft will automatically fly to the correct distance for shooting.
4. The user can choose to take a portrait photo or video. After the shooting is over, the aircraft will hover at the current position.

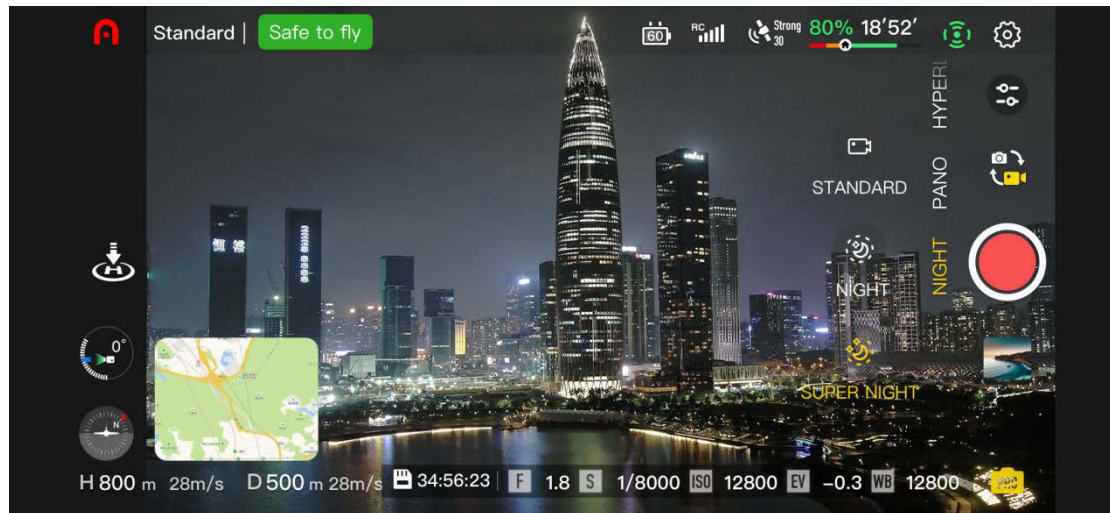
ⓘ Important

- When using portrait mode, please make sure the GPS signal is good and the obstacle avoidance system is turned on.

- When the distance between the aircraft and the operator is greater than 30 meters, the App will open a window to ask the user whether it should fly to the directed location. Select "Confirm" and the aircraft will fly to that location.
- As the aircraft is flying to the corresponding scene, the user can interrupt the flight by moving command sticks and adjusting the shooting position by themselves.

4.3.4 Night Mode

Night mode is suitable for shooting at night or in other low-light environments. Based on the Autel Moonlight Algorithm, the EVO Lite series can shoot clean, delicate, low-noise night scene photos and videos with high ISO in extremely dark conditions.



When shooting night scene videos, users can choose three modes to deal with different light environments.

Standard: The shooting effect is the same as the normal shooting mode.

Night: it will automatically adjust the ISO value, the maximum can reach 16000.

Super Night: it will automatically adjust the ISO value, the EVO Lite can reach a maximum of 64000, and the EVO Lite+ can reach a maximum of 48000.

ⓘ Important

- Pro parameters can only be adjusted in Super Night Mode.

Chapter 5 Flight

EVO Lite series adopts the unique portable design and has been assembled in factory. In order to ensure safe operation of UAV, please read the following instructions and warnings before first flight.

5.1 Safe operation guide

5.1.1 Flight environment

- Please abide by the local laws and regulations on UAV flight. Fly only in the designated aircraft movement area, and use Autel Sky App to set the satisfactory distance and height limits.
- Never fly in severe weather such as heavy fog, rain, hail, snow, high wind (force 7 and above) and so on.
- Please fly in an open area away from densely-populated area, building and electromagnetic interference source. The building containing more reinforcement bars will affect the operation of compass and block the GPS signal, causing the poor positioning of aircraft and even positioning failure. It is recommended to keep the aircraft from the building by at least 5m.
- Please fly in the area where the altitude is 4000m below.
- In the case of flying indoors, some functions may be limited due to insufficient light, lack of GPS signal or narrow space.
- Please control the aircraft within the range of visibility, and keep it away from obstacle, crowd, water surface (by 3m above), etc.

5.1.2 Pre-flight

Before the UAV flies, it is always necessary to pay attention to the following matters:

- Ensure that the aircraft, remote controller and mobile device are fully charged.
- Ensure that the protective cover for gimbal have been removed.
- Ensure that the aircraft camera lens and sensor keep clean.
- Ensure that the propeller has been installed correctly without damage.
- Ensure that each component of the aircraft has been assembled.

- Ensure that the aircraft motor, gimbal and camera can work normally after power on.
- Ensure that all alarms and errors displayed in Autel Sky App have been processed.
- Ensure that Autel Sky App and its firmware have updated to the latest version.
- Ensure that you are familiar with the control and operation of the aircraft.
- Only use the accessories supplied with the aircraft or sold or authorized by Autel Robotics for the aircraft. The use of unapproved accessories will bring serious safety risk and void the product warranty.

5.1.3 In-flight

- The aircraft shall keep away from people, vehicle and other moving object when taking off and landing.
- Do not let the aircraft out of your sight.
- The aircraft shall not get close to the mirror reflection area such as water surface or snowfield in the case of vision positioning. Ensure the flight of the aircraft in a well-lit environment in the event of poor GPS signal.
- Do not cancel the auto return process in the event of low battery alarm. Otherwise the aircraft may return to the return point due to insufficient power.
- When Autel Sky App displays an alarm, immediately carry out operation according to relevant specification.
- Ensure that you are free of drunkenness, high blood pressure, dizziness, fatigue or any other physical condition that may affect the safe operation of the aircraft.

5.1.4 Storage and maintenance

- Carefully check each part of the aircraft after any collision or extrusion. Store the aircraft and its accessories out of the reach of children and pets.
- Store the aircraft and its accessories in a cool and dry place.
- Keep the aircraft away from water source and heat source.
- The recommended temperature of the aircraft shall be 22°C~28°C (72°F~82°F).

5.2 Flight preparation

5.2.1 Battery preparation

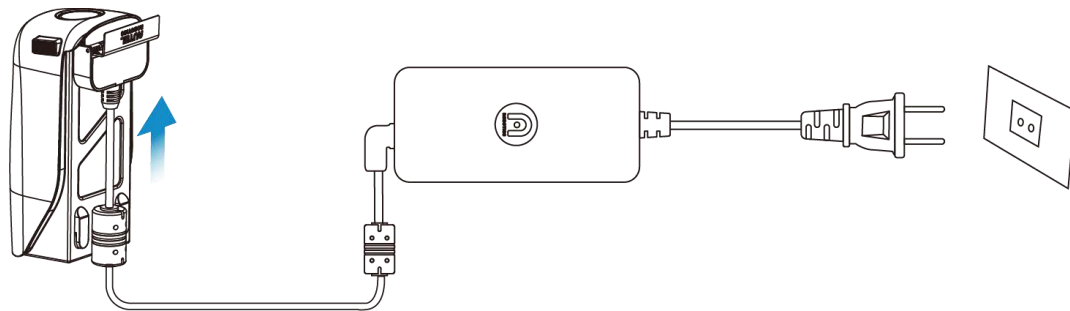
1. Install aircraft battery

Turn off the battery power switch before installing battery, and insert the battery into battery compartment.

2. Charge aircraft battery and remote controller

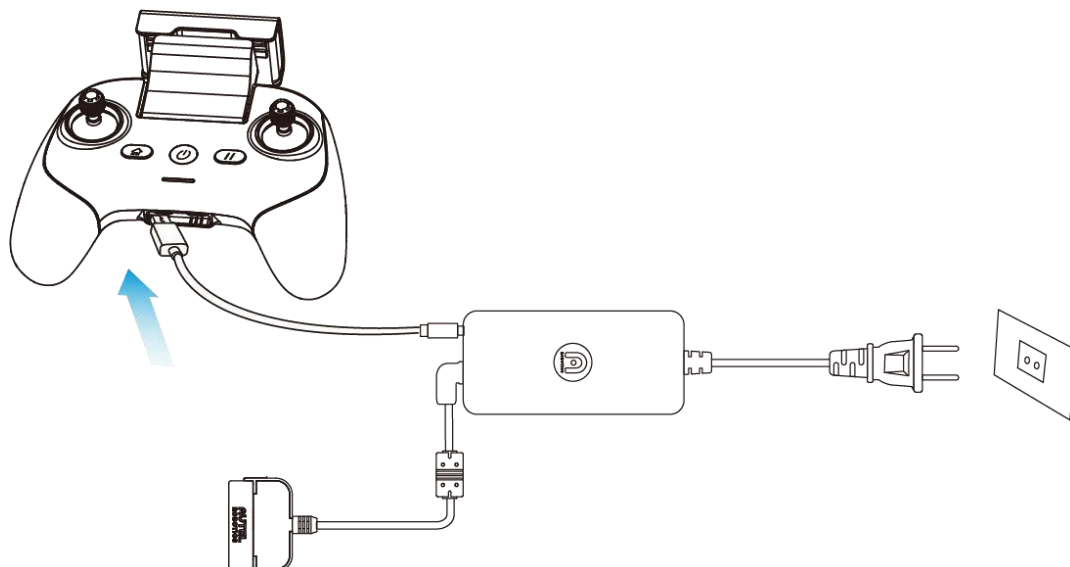
1) Charge aircraft battery

Press and hold the disconnect button on both sides of the battery, insert one end of the charging cable into the battery charging slot, and connect the other end to the AC power supply through the power adapter (rated power 63.75W).



2) Charge remote controller

Insert one end of the charging cable into the USB-C charging port at the bottom of the remote controller, and connect the other end to the AC power supply through the power adapter (rated power 63.75W).



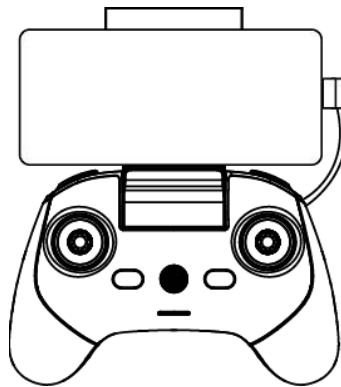
ⓘ Important

- It is recommended to use the official charging cable and power adapter.


5.2.2 Remote controller preparation

1. Connect mobile device

Extend the mobile device support, place the mobile device on the support, insert the mobile phone port of the remote controller connector into the mobile device (it is allowed to replace corresponding Micro USB, USB-C, Lightning interface adapter for remote controller). Ensure that the mobile device has firmly been inserted into the slot.



2. Turn on remote controller

Press the power button () for 2s to turn on the remote controller.

5.2.3 Aircraft preparation

1. Extend aircraft

Before the aircraft power switch is turned on, slowly pull out the protective cover for gimbal, extend the front arm, rear arm and propeller successively.

ⓘ Important

- Ensure that the protective cover for gimbal has been removed and the arms have been extended before the aircraft power switch is turned on.
- Please extend the front arm and then the rear arm.

- Be sure to turn off the aircraft power switch before turning off the remote controller. Turn off the aircraft power switch before the arms are folded. First extend the rear arm and propeller and then the front arm.

2. Turn on aircraft

Press the power button for 3s to turn on the aircraft. The power indicator will be lit to indicate the current battery level.

3. Pair aircraft and remote controller

Refer to the paragraph 3.4 for this operation procedure.

5.3 Flight operation

This aircraft includes three command stick modes, mode 1, mode 2, mode 3 and each mode has different control on the aircraft. Please refer to the paragraph 3.2.4 for detailed stick operation. The default mode is the mode 2 which is recommended for the beginner. The following flight operations take the mode 2 as an example.

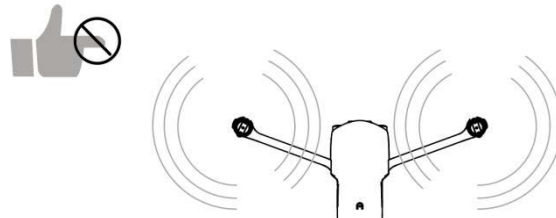
5.3.1 Basic flight

1. Place the aircraft at an open area. Stand at least 3m from the tail of the aircraft.
2. Turn on your remote controller and aircraft.
3. Operate Autel Sky App, connect the mobile device and the aircraft, and enter the camera interface.
4. Use the remote controller to start motor after the tail LED indicator becomes green and flash slowly.
5. Slowly push up the lifter to make the aircraft take off stably.
6. Carefully control the aircraft within your range of visibility.
7. Pull down the lifter to land the aircraft.
8. After the aircraft lands on the ground, pull the lifter to the lower position for 2s till that the motor is turned off.
9. Disconnect the power supply of aircraft and remote controller in turn.

5.3.2 Takeoff

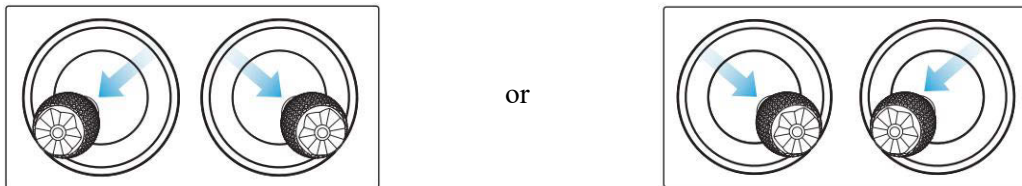
Remark

- The aircraft cannot fly when the battery level is 15% or below.
- Stay away from the rotating propellers and motors.

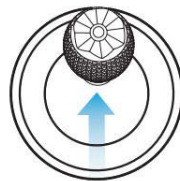


1. Manual takeoff

1) As shown in figure, press the left and right sticks for 1s to start motor.




2) Slowly push up the left stick.



Warning

- Motor will generate heat during operation. Please operate with care.
- If you are the first time to control the aircraft, please move the command stick gently till that you are familiar with its operation.

2. Automatic takeoff

1) Press and slide the one-click takeoff button () on the APP camera interface.

2) The aircraft will automatically rise to the height of about 2.5m. During the rising, you can adjust the position of the aircraft by using the left command stick.

Warning

- Never take off on moving object, such as moving ship and vehicle.

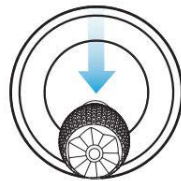
5.3.3 Landing

Important


- Always land on a flat and open surface.

1. Manual landing


1. Find an appropriate aircraft landing position.
2. When the aircraft arrive above the target position, release the command stick to make the aircraft hover.
3. Slowly push down the left command stick to land the aircraft.
4. After the aircraft lands on the ground, pull the left command stick to the bottom for 2s till that the motor is turned off.



2. Automatic landing

- 1) Press and slide the one-click landing button () on the APP camera interface.
- 2) During the landing, you can use the right command stick to adjust the position of the aircraft.

Remark

- During the automatic landing, you can recover the control on the aircraft when pressing the pause button () of remote controller.
- The automatic landing can also be used in ATTI mode. However, the aircraft may drift in this mode, so its flight height shall be monitored.

- In the case of low battery alarm, the rear LED of the aircraft will flash red. At this time, it is necessary to return the safe landing point as soon as possible.

5.4 Flight restrictions

According to the controlled airspace and UAV management regulations of the ICAO and the air traffic management authorities of each country, UAV must fly in the specified airspace. For the sake of flight safety, the flight restrictions are activated by default, including height and distance limits and flight restriction in special area.

Remark

- Operator shall abide by all the local rules and regulations concerning flight.

5.4.1 Classification of restricted area

The restricted area is classified into two.

Class I: main airport & low-altitude area for manned aircraft

1. Restricted area

A circular area centered on this area and with a radius of 2.4km (subject to government rules)

2. Height limit area

An annular area centered on this area and with a radius of 2.4~8km. The flight height of the aircraft is limited and such height limit varies with the radius. When the radius decreases from 8km to 2.4km, the maximum flight height will decrease from 120m to 10.5m.

3. Warning area

APP will give a warning information when the aircraft enters the area of 8.1km from the airport.

Class II: Sensitive area or organization & military area & border between countries

1. Restricted area

A circular area centered on this area and with a radius of 1km

2. Warning area

APP will give a warning information when the aircraft enters the area of 2km from the airport.

5.4.2 Height limit and distance limit

The maximum height is used to restrict the flight height of the aircraft, and the maximum radius is used to restrict its flight distance. User can make settings in Autel Sky App. In the case of valid GPS, the flight restriction and the height and distance limits in special area will jointly affect the flight. In the case of invalid GPS, the aircraft will be restricted only by height.

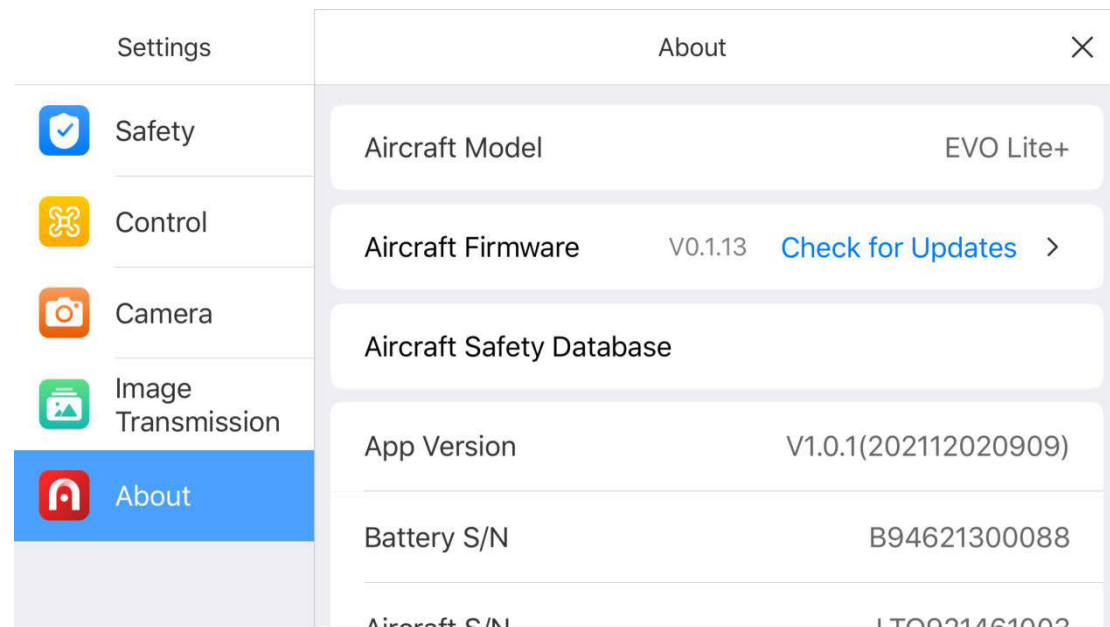
Remark

- The flight height refers to the vertical height of the aircraft above the return point, and the flight distance refers to the horizontal distance between the aircraft and the return point.
- The flight height is 120m by default, with the adjusting interval of 30~800m; the maximum distance is at least 30m by default, with the adjusting interval of 30 and above; the return height is 30m by default, with the adjusting interval of 30~800m. The flight height, maximum distance and return height are the system default, which can be adjusted by user as required.
- Under the beginner mode, the default values are 30m for flight height, 100 for maximum distance, 30m for return height and 11km/h for maximum flight speed, and the modes cannot be switched.
- The height limits are different in each country and region. Please the local air traffic management authority for actual height limit.

Chapter 6 Maintenance and service

6.1 Firmware update

In order to optimize the system performance of EVO Lite series aircrafts, Autel Robotics will update relevant firmware when necessary.



6.1.1 Download and update firmware

1. Turn on your remote controller and aircraft, connect your mobile phone to the remote controller, operate Autel Sky app.
2. When the system detects new firmware version, Autel Sky app will open a prompt box after it is connected with the aircraft to remind you to download and install the new version.
3. Please follow the prompt on Autel Sky app to update the firmware. User can view the upgrade process on App interface.
4. Please restart the aircraft and the remote controller after update.

ⓘ Important

Before firmware update, please ensure that:

- Update the firmware by step, otherwise the update may be failed. The aircraft will shut down automatically after update.
- If the device is closed during update, the update may be failed.

- In the case of network outage during update, the update may be failed.
- The whole update process will take more than ten minutes. The following situations may occur in the aircraft during update: it is normal that the gimbal is weak, the status indicator flashes abnormally, or the aircraft restarts; Please wait patiently for completing firmware update.
- Ensure that the aircraft and remote controller have the battery level of more than 30%.
- After the firmware update, the flight control parameters such as return height and distance limit of the aircraft will be reset. Please reset them after update.

6.2 Storage and maintenance

In order to ensure the optimal performance of EVO Lite, please read and abide by the maintenance instruction of this section carefully.

- Store the aircraft, battery and remote controller in a clean, dry, cool and well-ventilated place.
- Protect the aircraft from direct sunlight when it is not used.
- Please wipe dry your two hands before operating the aircraft.
- Clean the camera lens with the soft cloth with alcohol or gentle window cleanser. Do not use any strong cleanser, detergent or chemical.
- Keep the battery charger clear of other conducting materials.
- Avoid the aircraft and its accessories falling, especially falling on a hard surface. Carefully check all components after each collision or impact. Please contact the customer support of Autel Robotics for any damage.
- Only use the accessories authorized by Autel Robotics, such as charger. We will provide no warranty for any accident due to the use of unapproved accessories.

6.3 Warranty

Autel Robotics Co., Ltd (hereinafter referred to as “the Company”) promises to the original retail buyer of the product that: under the normal use condition, if the product or its any part is certified to have defect in material or technology, causing equipment fault, then you can, within the warranty period (calculated from the date of delivery), carry your proof of purchase for free repair or replacement service by the Company.

Scope of service:

- Within the warranty period, the product has the non-human performance fault during normal use;
- The product is not disassembled without approval or modified or added as instructed by non-official manual, or has other non-human faults;
- The equipment serial number, factory label and other marks are not torn away or altered;
- The effective proof of purchase, document and document number are provided;
- The implementation of the specific rules of this service is subject to the local policies, laws and regulations of different countries and regions.

This warranty clause will not be applied:

- When the product is out of the warranty period;
- When the battery has been charged for more than 200 times;
- When the product doesn't use the official latest firmware;
- When the fault is caused when product is used for unlawful activities;
- When the product flight log has been changed or deleted without approval;
- When the serial number label and waterproof mark of the product are damaged or altered;
- When the product has appearance, decorative or structural (such as frame and non-operating component) defects;
- When the damage is caused because it is not installed, used and operated as instructed by the manual;
- When the product damage is caused because of the use of the self-programming or non-official software;
- When the damage is caused by the reliability and compatibility problems when the product is used with the component of a third party other than Autel Robotic;
- When the product suffers from abnormal use or environment, accident or improper handling, unauthorized change, abuse, or improper installation, maintenance or storage;
- When the product is damaged due to external factors, including but not limited to, natural disaster, fire, water, dirt, dust, battery leakage, fuse burn-out, theft or any improper use of power supply;
- When user fails to send the product within 7 natural days after contacting Autel Robotic

for warranty service.

6.4 Customer service

This section includes the information on technical support, maintenance service, application for replacement and spare parts.

6.4.1 Technical support

If you have any problems or questions about our product, please contact Autel Robotics' customer support:

6.4.2 Maintenance service

If you want to send in your equipment for repair, please mail to support@autelrobotics.com or call Autel Robotics' customer support: (844) 692-8835.

You should be prepared with the following information:

- Name
- Email
- Mailing address
- Phone number
- Product name
- Complete problem description and photo
- For warranty: provide the proof of purchase
- For non-warranty: provide the preferred payment mode

The customer support personnel of Autel Robotic will evaluate the problem and give a reply within 2 days.

 **Remark**

- All contents of the product may be deleted during maintenance. You are advisable to create a backup copy for the product before delivering it for warranty service.

Chapter 7 Technical Specification

Aircraft	Takeoff weight	835g
	Dimensions (including blades)	Folded: 210×123×95mm Unfolded: 427×384×95mm
	Wheelbase	368mm
	Max ascent speed	5m/s (ludicrous), 4m/s (standard), 3m/s (smooth)
	Max descent speed	4m/s (ludicrous), 3m/s (standard), 2m/s (smooth)
	Max level flight speed (no wind, near sea level)	18m/s (ludicrous), 10m/s (standard), 5m/s (smooth)
	Max takeoff altitude	4000m
	Max flight time (no wind)	40min
	Max hovering time (no wind)	38min
	Max flight distance (no wind)	24km
	Max wind resistance	Level 7
	Max tilt angle	33°(ludicrous), 25°(standard), 25°(smooth)
	Max angular velocity	200°(ludicrous), 120°(standard), 60°(smooth)
	Operating temperature	0°C ~ 40°C
	Operating frequency	2.400-2.4835GHz; 5.725-5.850GHz; 5.150-5.250GHz
	Transmission power (EIRP)	FCC:≤30dBm; CE:≤20dBm
GNSS	GPS, Galileo, GLONASS	
Hovering accuracy	Vertical: ±0.1m (when the visual positioning is active), ±0.5m (with GPS positioning); Horizontal: ±0.3m (when the visual positioning is active), ±1.5m (with GPS positioning);	
Gimbal (Lite)	Mechanical range	Pitch: -135°~45° Roll: -45°~45° Yaw: -90°~90° Rotate: -400°~400°
	Controllable range	Pitch: -90°~30°

		Yaw: -80°~80° Rotate: -360°~360°
	Stabilization	4-axis
	Max control speed (pitch)	30°/s
	Angular vibration range	±0.003°
Gimbal (Lite+)	Mechanical range	Pitch: -135°~45° Roll: -45°~45° Yaw: -90°~90°
	Controllable range	Pitch: -90°~ +30° Yaw: -80°~ +80°
	Stabilization	3-axis
	Max control speed (pitch)	30°/s
	Angular vibration range	±0.003°
Perception system	Forward	Accurate measurement range: 0.5~18m Effective sensing speed: <12m/s FOV: horizontal <70°, vertical <88°
	Backward	Accurate measurement range: 0.5~18m Effective sensing speed: <12m/s FOV: horizontal <40°, vertical <30°
	Downward	Accurate measurement range: 0.5~22m Visual hovering range: 0.5~40m FOV: horizontal <40°, vertical <30°
	Operating environment	Forward, backward: Surface with clear pattern and adequate lighting(lux> 15) Downward: Surface with clear pattern and adequate lighting(lux> 15); Detects diffuse reflective surfaces(>20%) (walls, trees, people, etc.)
Camera (Lite)	Sensor	CMOS: 1/1.28 inch Effective pixels: 50M Pixel size: 1.22μm*1.22μm
	Lens	FOV: 85° Equivalent focal length: 23mm Aperture: f/1.9 Focus range: 0.5m ~ ∞ Focus mode: PDAF+CDAF/MF
	Shooting mode	Automatic mode (P gear): EV adjustable, ISO/Shutter automatic Manual mode (M gear): ISO/Shutter

		adjustable, EV not adjustable Shutter priority (S gear): Shutter/EV adjustable, ISO automatic
ISO range		Video: ISO100 ~ ISO6400 Photo: ISO100 ~ ISO6400 Night mode: ISO up to 64000
Shutter speed		Photo mode: 1/8000 ~ 8s Other: 1/8000 ~ 1/frame rates
Portrait blur		Real-time image transmission portrait blur and photo portrait blur
Defog mode		Support
Zoom range		Digital zoom: 1 ~ 16 times Lossless zoom: 4K: 2 times; 1080p: 4 times Note: 4K: more than 2 times is the digital zoom, otherwise is lossless zoom 1080P: more than 4 times is the digital zoom, otherwise is lossless zoom
Photo format		JPG (8-bit) / DNG (10-bit) / JPG+DNG
Photo resolution		50MP: 8192x6144 (4:3) 12.5MP(default): 4096x3072 (4:3) 4K: 3840x2160 (16:9)
Photo shooting mode		Single shot Burst shooting: 3/5 Auto exposure bracketing(AEB): 3/5 shots Interval: 2s/3s/4s/5s (default)/6s/.../60s (DNG min 5s) HDR imaging: 8192x6144/4096x3072/3840x2160 Night shot: 8192x6144/4096x3072/3840x2160
Video coding format		H265/H264
Video resolution		3840x2160 p60/50/48/30/25/24 2720x1528 p60/50/48/30/25/24 1920x1080 p120/60/50/48/30/25/24 HDR: 3840x2160 p30/25/24 2720x1528 p30/25/24 1920x1080 P60/50/48/30/25/24
Max bitrate		120Mbps
Timelapse		Original image:3840*2160, JPG/DNG

		Video: 4K P25
	Panorama	Horizontal/Vertical/Wide-angle/Spherical Original image: 4096*3072, JPG/DNG
	Supported file system	Fat32, exFat
	Video format	MP4/MOV (8-bit)
	WIFI transfer	20MB/s
Camera (Lite+)	Sensor	CMOS: 1 inch Effective pixels: 20M Pixel size: 2.4μm*2.4μm
	Lens	FOV: 82° Equivalent focal length: 29mm Aperture: f/2.8 ~ f11 Focus range: 0.5m ~ ∞ Focus mode: CDAF/MF
	ISO range	Video: ISO100 ~ ISO6400 Photo: ISO100 ~ ISO6400 Night mode: ISO up to 48000
	Shutter speed	Photo mode: 1/8000 ~ 8s Other: 1/8000 ~ 1/frame rates
	Portrait blur	Real-time image transmission portrait blur and photo portrait blur
	Defog mode	Support
	Zoom range	Digital zoom: 1 ~ 16 times Lossless zoom: 4K: 1.3 times; 1080p: 3 times Note: 6K: Digital zoom 4K: more than 1.3 times is the digital zoom, otherwise is lossless zoom 1080P: more than 3 times is the digital zoom, otherwise is lossless zoom
	Photo format	JPG (8bit)/ DNG (12bit) / JPG+DNG
	Photo resolution	5472x3648 (3:2, default) 5472x3076 (16:9) 3840x2160 (16:9)
	Video coding format	H265/H264
	Video resolution	5472x3076 p30/25/24 3840x2160 p60/50/48/30/25/24 2720x1528 p60/50/48/30/25/24 1920x1080 p120/60/50/48/30/25/24 HDR:

		3840x2160 p30/25/24 2720x1528 p60/50/48/30/25/24 1920x1080 p60/50/48/30/25/24
	Max bitrate	120Mbps
	Timelapse	Original image: 5472*3076/3824*2160, JPG/DNG Video: 5.4K/4K P25
	Panorama	Horizontal/Vertical/Wide-angle/Spherical Original image: 5472*3648, JPG/DNG
	Supported file system	Fat32, exFat
	Video format	MP4/MOV (8-bit)
	WIFI transfer	20MB/s
Remote control and image transmission	Operating frequency	2.400-2.4835GHz, 5.725-5.850GHz, 5.150-5.250GHz
	Max transmission distance (unobstructed, free of interference)	FCC:12km; CE:6km
	Operating temperature	0°C ~40°C
	Transmission power (EIRP)	FCC: ≤30dBm; CE: ≤20dBm
	Battery capacity	3930mAh
	Max battery life	~ 2h (when connected to a mobile phone) ~ 3h (when not connected to mobile phone)
	Interface type	Type C
	Transmission system	Autel SkyLink
	Realtime transmission quality	Transmission distance<1km: 2.7K 30fps Transmission distance>1km: 1080P 30fps
	Transmission bitrate	90Mbps
Transmission delay	≤200ms	
Adapter	Input	100-240V/50-60HZ
	Output	12.75V= 5A
	Rated power	63.75W
Aircraft battery	capacity	6175mAh
	Voltage	11.13V
	Max charging voltage	12.75V
	Battery Type	Li-Po 3S

	Energy	68.7Wh
	Charging temperature	5~45°C
	Single battery charging time	90min
	Max charging power	78W
App	Mobile App	Autel Sky
	Mobile system required	iOS 13.0 and above Android 6.0 and above
Storage	Built-in storage	6GB
	SD storage	max. support 256GB (UHS-3 rating required)