

EVO



Quick Guide

With XI-5A Gimbal

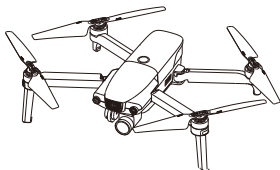
AUTEL
ROBOTICS

1. INTRODUCING EVO

Thank you for your purchase and welcome to the Autel Robotics family.

EVO is the latest evolution in drone design and technology. Obstacle avoidance, Intelligent Flight Modes, and a completely redesigned mobile app create an exciting and safe experience like nothing else. Exploring the world requires safety, reliability, and performance. EVO's ergonomic controller, Smart Flight System and stabilized 3-Axis Camera Gimbal allows you to experience and capture your world in powerful new ways.

Autel Robotics EVO, the Evolution of Flight, Born to Explore!

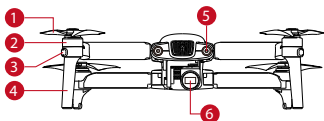


IMPORTANT:

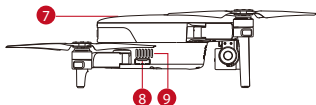
Carefully read all provided instructions, safety warnings and precautions before use.

Use this product as instructed to prevent product damage or personal injury. Failure to do so will void the product's warranty.

2. AIRCRAFT FRONT AND RIGHT VIEW

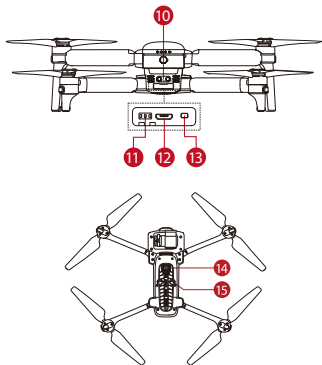


1. Propellers
2. Motors
3. Front LED Indicators
4. Landing Gear
5. Forward Vision System
6. Camera Gimbal



- 7. Aircraft Battery
- 8. Micro-SD Card Slot
- 9. Fan Exhaust

3. AIRCRAFT REAR AND BOTTOM VIEW



- 10. Rear Avoidance Sensor
- 11. Control Mode Switch
- 12. Micro-USB Port
- 13. Remote Controller Pairing Button/Pairing Indicator
- 14. Downward Vision System
- 15. Ultrasonic Sensor

4. FLIGHT LED INDICATIONS

There are four LEDs located on the end of the aircraft arms, one on each arm. The front indicators will be solid red to help you identify the direction of the aircraft's nose, and the rear indicators show the current flight status of the aircraft.

R — Red Color
 G — Green Color
 Y — Yellow Color

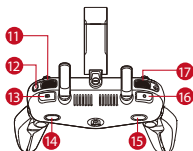
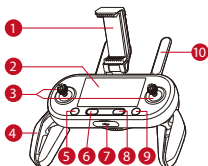
- Solid Light
- ⦿ Slow flashing: Flashes once per second
- Interval flashing: Flashes once every two seconds
- ⦿⦿ Fast flashing: Flashes 3 times per second
- ⦿⦿ Double flashing: Flashes two times then pauses and repeats
- ⦿ Alternate flashing: Alternate among different colors

Example: "R-●" Solid Red light

Normal Status	
RGY-●⦿	System Self-test is activated
YG-●⦿	The aircraft is warming up
G-⦿	The aircraft is in GPS mode
G-⦿⦿	The Forward Vision System and Starpoint™ Positioning System are enabled
Y-⦿	The aircraft is in ATTI mode
G-○⦿	The aircraft is braking
Warning	
Y-○⦿	There is no connection between the aircraft and the remote controller
R-⦿	Low Battery Warning (meaning the battery level is less than 25%)
R-○⦿	Extremely Low Battery Warning (meaning the battery level is less than 15%)
R-○	IMU error or calibration failed
R-●	Critical problems or abnormalities
RY-●⦿	Abnormal compass, calibration is required
Compass Calibration	
Y-●	Be ready to calibrate the compass
G-●	Horizontal calibration is successful
G-⦿	Vertical calibration is successful

5. REMOTE CONTROLLER

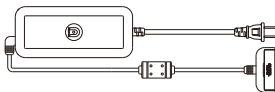
1. Mobile Device Holder
2. Flight Information Panel
3. Command Sticks
4. Hand Grips
5. Take-off/Landing Button
6. Power Button
7. USB Ports
8. Pause Button
9. Go Home Button
10. Antennas



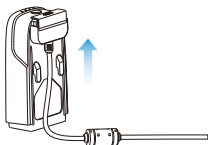
11. Screen Navigation Dial
12. Screen Navigation Button
13. Shutter Button
14. Customizable Button A
15. Customizable Button B
16. Record Button
17. Gimbal Pitch Dial

6. CHARGE THE AIRCRAFT AND REMOTE CONTROLLER

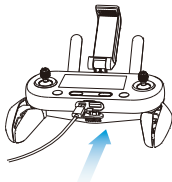
The aircraft battery and remote controller can be charged simultaneously using the supplied charger.



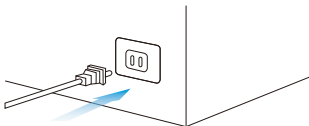
1. Plug the charging connector into the charging port of the aircraft battery.



2. Flip open the protector on the USB Port located on the remote controller and plug the USB charging cable into the USB port.



3. Plug the charger into a power outlet.



NOTE: Always fly with a fully charged aircraft and remote controller battery.

It will take approximately 80 minutes to fully charge the aircraft battery and 180 minutes to fully charge the remote controller.

7. INSTALL THE AUTEL EXPLORER APP (OPTIONAL)

Aircraft functionality is available using the remote controller alone. The optional mobile app enables greater control and access to advanced flight, photography and video functionality.

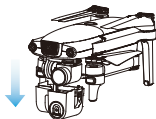
1. Search for 'Autel Explorer' from the App Store or Google Play and install the app for EVO on your mobile device.
2. Launch the app on your mobile device.
3. Connect the mobile device to the remote controller.



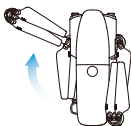
NOTE: Autel Explorer supports iOS 9.0 or later and Android 4.4 or later.

8. PREPARE THE AIRCRAFT

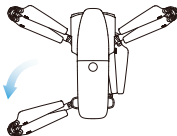
1. Remove the gimbal holder and the warning cards from the Motors.



2. Unfold the front arms and Propellers of the aircraft.



3. Unfold the rear arms and Propellers of the aircraft.



IMPORTANT: Remember to unfold the front arms first then the rear arms for usage, fold the rear arms first then the front arms for storage.

9. PREPARE THE PROPELLERS

The Propellers are attached on the aircraft by default, read the following instructions if you need reinstall the Propellers.

The Propellers must be undamaged, in good condition and firmly attached.

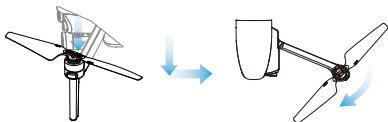
The Propellers are color coded to identify the motor each Propeller should be attached to.

Attach the Propellers

1. Locate and match the Propeller to each Motor (orange Propeller to orange Motor, black Propeller to black Motor).



2. Press each Propeller down firmly and rotate in the lock direction to firmly attach the Propeller.



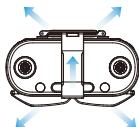
Detach the Propellers

1. Power off the aircraft.
2. Press each Propeller down firmly and rotate in the unlock direction to detach the Propeller.

NOTE: Fold up the Propellers when the aircraft is not in use.

10. PREPARE THE REMOTE CONTROLLER

1. Unfold the Mobile Device Holder, Antennas, Hand Grips as showing in the picture.

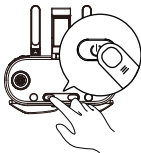


2. Position the Antennas vertically to get the strongest signal.



11. POWER UP

1. Press and hold the Power Button for 2 seconds to power up the remote controller.



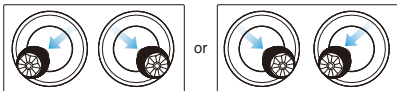
2. Press and hold the aircraft's Power Button for 3 seconds to turn on the aircraft. The battery level indicators will illuminate and indicate the current battery level.



IMPORTANT: Always turn on the remote controller first before turning on the aircraft. The aircraft should be turned off before the remote controller.

12. MOTOR START AND TAKEOFF

1. Start the Motors by holding both Command Sticks for two seconds shown below:



2. With the Motors spinning, choose one of the following methods to takeoff:



Hold the Takeoff/Landing Button for 2s



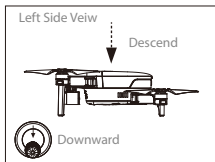
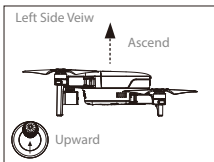
Push the Left Command Stick slowly upward (Mode 2)

NOTE: Before takeoff, place the aircraft on a flat and level surface and face the rear side of the aircraft towards you.

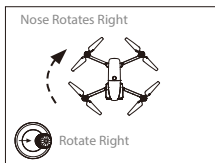
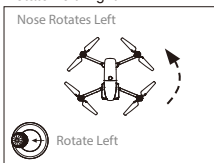
13. COMMAND STICK CONTROLS(MODE 2)

Left Command Stick

Ascend/Decend

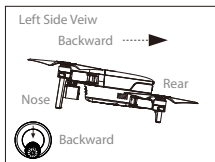
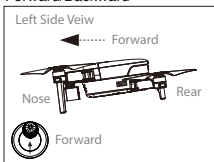


Rotate Left/Right

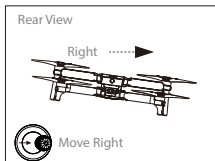
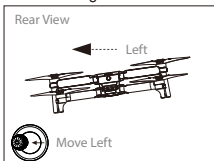


Right Command Stick

Forward/Backward



Move Left/Right



14. LANDING AND MOTOR SHUT-DOWN (MODE 2)

1. Choose one of the following methods to land the aircraft:



Hold the Takeoff/Landing
Button for 2s



Push the Left Command Stick
slowly downwards

2. When the aircraft reaches the ground, choose one of the following methods to shut down the Motors:



Push the Left Command Stick
to the bottom and hold for 2s



Hold both Command Sticks
toe-in for 2s

IMPORTANT: Make sure to land the aircraft on a flat and level surface in an open area.

Aircraft Battery Specifications

Battery Type	Lithium-Polymer
Capacity	4300mAh
Battery Voltage	11.4V
Charging Environment Temperature	10°C~45°C (50°F~113°F)
Discharging Environment Temperature	-20°C~60°C (-4°F~140°F)
Storage Temperature & Humidity	Temp: -10°C~40°C (14°F~104°F) Humidity: 65±20%RH
Flight Time	30 mins

Camera Gimbal Specifications

Operating Current	150mA@12V (Non-video Mode)
Input Voltage	12V
Operating Temperature	-10°C~50°C (14°F~122°F)
Weight	67.5g (Camera incl.)
Dimensions (Damping device excl.)	42m x 49mm x 45mm
Control Accuracy	Pitch: ±0.015° / Roll: ±0.015° / Yaw: ±0.015°
Max. Angular Velocity	Pitch: ±200°/S / Yaw: ±200°/S
Controllable Range	Pitch: 0°~90° / Yaw: ±50°

Camera Specifications

Operating Environment Temperature	0°C~40°C (32°F~104°F)
Still Photography Modes	Single shot Burst shooting Auto Exposure Bracketing (AEB) Time-lapse
Video Recording Modes	Normal
Max. Field of View	94°
Supported SD Card Types	Micro-SD card

Lense Diameter	25mm
Camera Bit Rate	100M
Storage capacity	4GB-128GB
File Formats	FAT32/exFAT Photo: JPG/DNG Video: MOV/MP4

Aircraft Specifications

Hover Precision	GPS+ Ultrasonic+ IMU: Horizontal: $\pm 1.5\text{m}$, Vertical: $\pm 0.2\text{m}$; Vision+ IMU: Horizontal: $\pm 0.1\text{m}$, Vertical: $\pm 0.1\text{m}$
Max. Yaw Rate	200dps
Max. Inclination Angle	35deg
Max. Ascent/Descent Speed	Ascent: 5m/s; Descent: 3m/s
Max. Horizontal Speed	20m/s
Diagonal Wheelbase	338mm
Propeller Size	8.3inches
Video Link Frequency	2.4GHz~2.4835GHz 902MHz~928MHz
Receiver Frequency	2.4GHz~2.4835GHz 902MHz~928MHz
Flight Modes	GPS Mode, Sport Mode, ATTI Mode
Operating Environment Temperature	0°C~40°C (32°F~104°F)
Storage Temperature	-10°C~40°C (14°F~104°F)
Weight (Battery&Propellers included)	863g

Remote Controller Specifications

OLED Screen Nits	330
Max Operating Time	3 hours

RF Receiver Operating Frequency	2.4GHz~2.4835GHz 902MHz~928MHz
Video Link Frequency	2.4GHz~2.4835GHz 902MHz~928MHz
Operating Temperature	0°C~40°C (32°F~104°F)
Storage Temperature	1 year: -20~25°C(-4°F~77°F) 3 months: -20~45°C (-4°F~113°F)
Max Control and Video Transmission Distance	7km
Transmission Power (EIRP)	FCC: ≤26 dBm CE: ≤20 dBm
Operating Current/Voltage	2A @ 3.6V
Battery	6700mAh
Power Consumption	7.2W
Weight (battery included)	370g



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