AUTEL ROBOTICS EVO II RTK Series Dual Rugged Bundle Drone User Guide

AUTEL

ROBOTICS

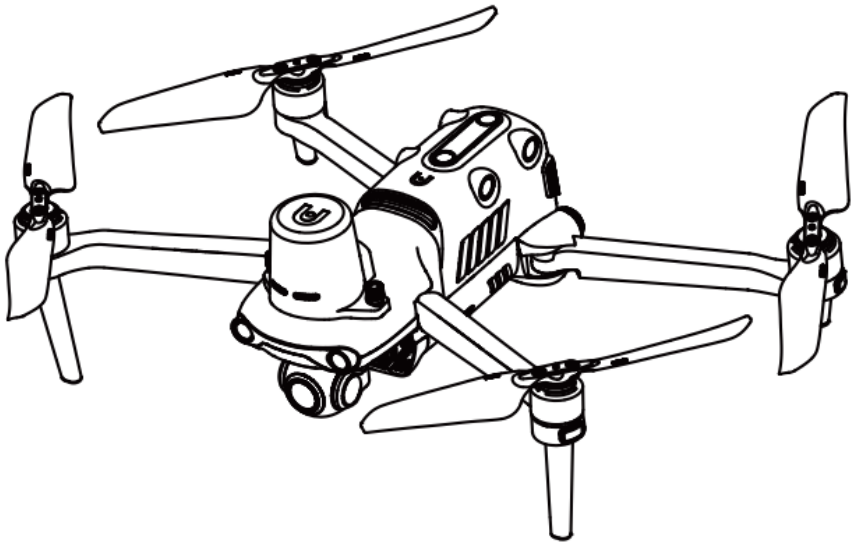
EVO II RTK Series

User Guide

Contents

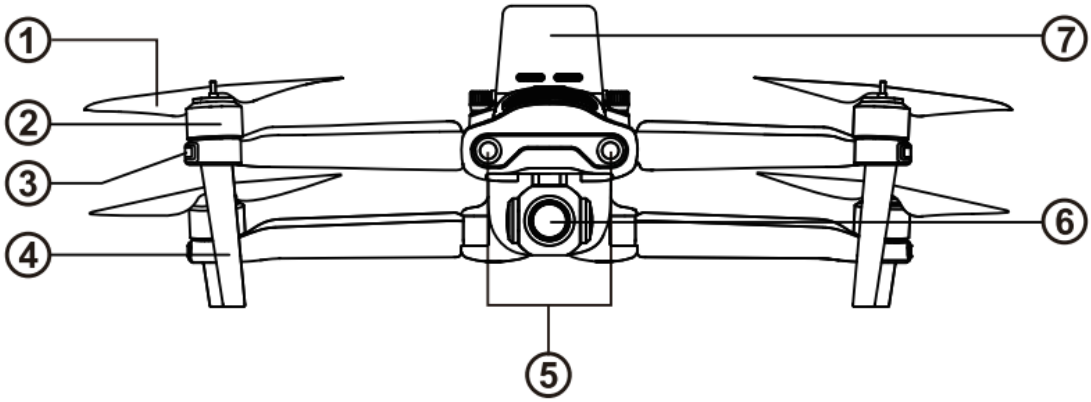
GETTING TO KNOW THE EVO II RTK SERIES

The EVO II RTK provides high-precision, centimeter-level positioning accuracy. It embodies all the elements of the original EVO II series, making it compact, portable and ready to deploy in minutes. Not only does it provide advanced functions such as obstacle avoidance and intelligent flight modes, but it also utilizes the latest high-tech technology, achieving a maximum speed of 45mph (72km/h), up to 36 minutes of flight time, and is capable of image transmission at distances of up to 5.6miles (9km, FCC). It comes with a 3-axis stabilized gimbal camera that enables viewing of real-time imagery at a resolution of up to 1080p on mobile devices, or 720p on the built-in OLED display of the remote control.



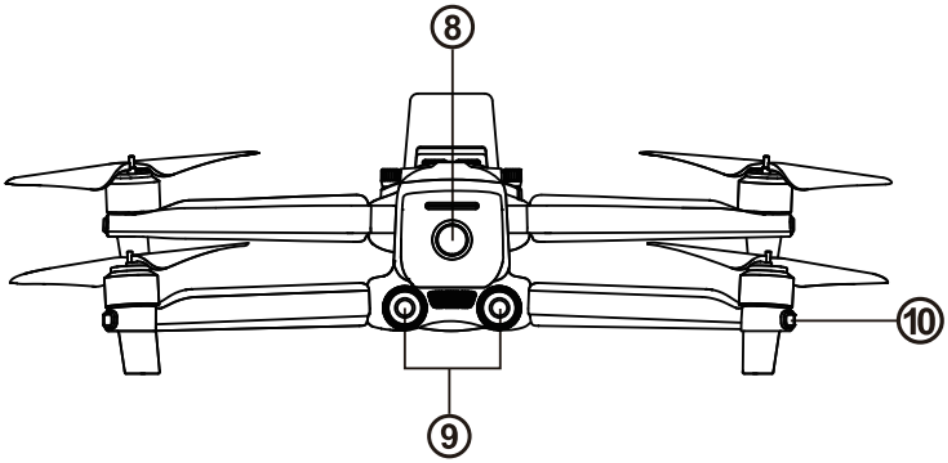
IMPORTANT:

1. Please check all the documentation before your first flight.
2. Improper operation of the drone may result in injury or loss, and loss of all applicable warranty services.



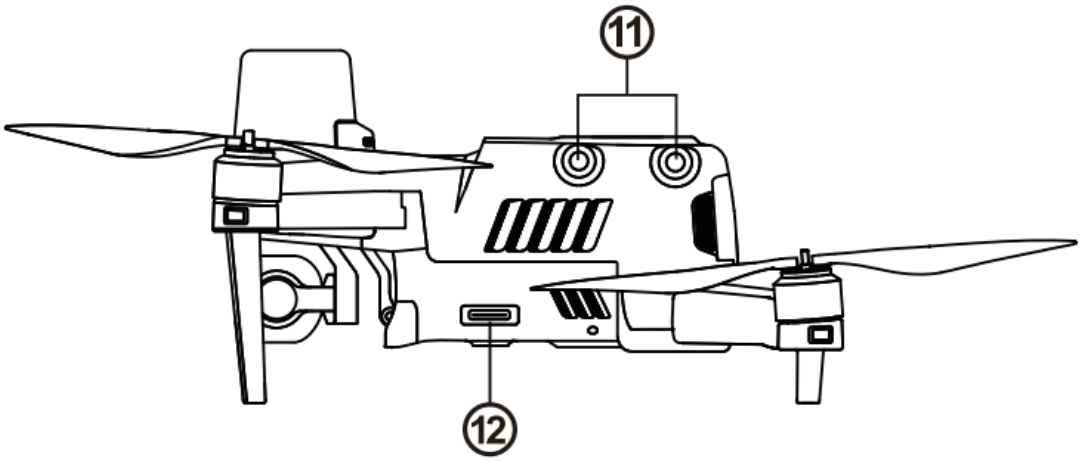
Front Side

1. Propellers
2. Motors
3. Front LED Indicator
4. Landing Gear
5. Forward Vision System
6. Camera Gimbal
7. RTK Module



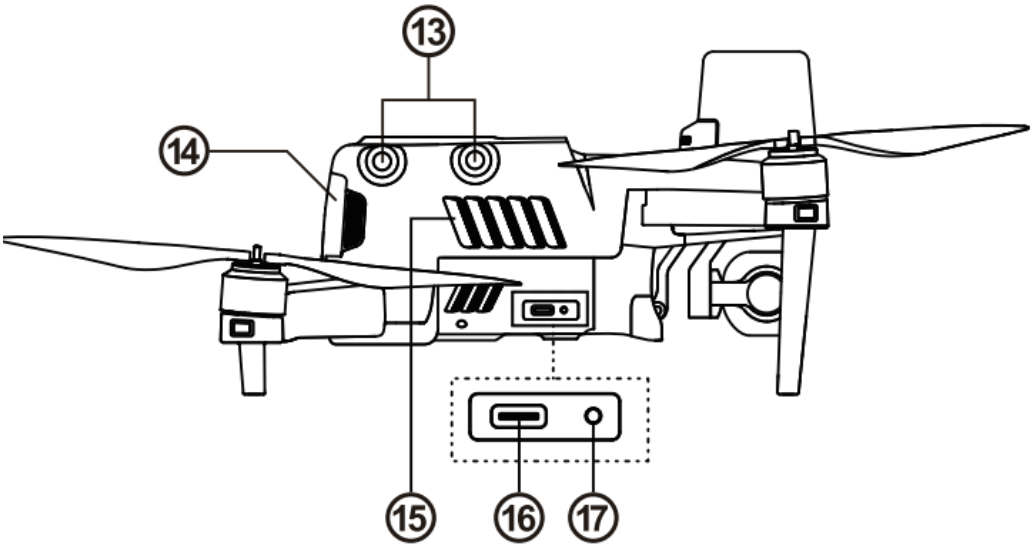
Rear Side

8. Power Button Rear
9. LED Indicator
10. Rear Vision System



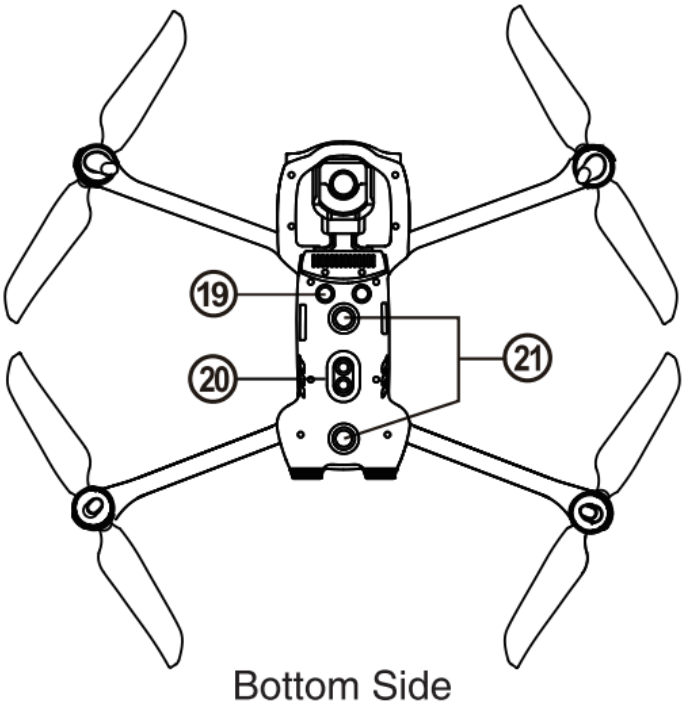
Left Side

11. Left Vision System
12. SD Card Port

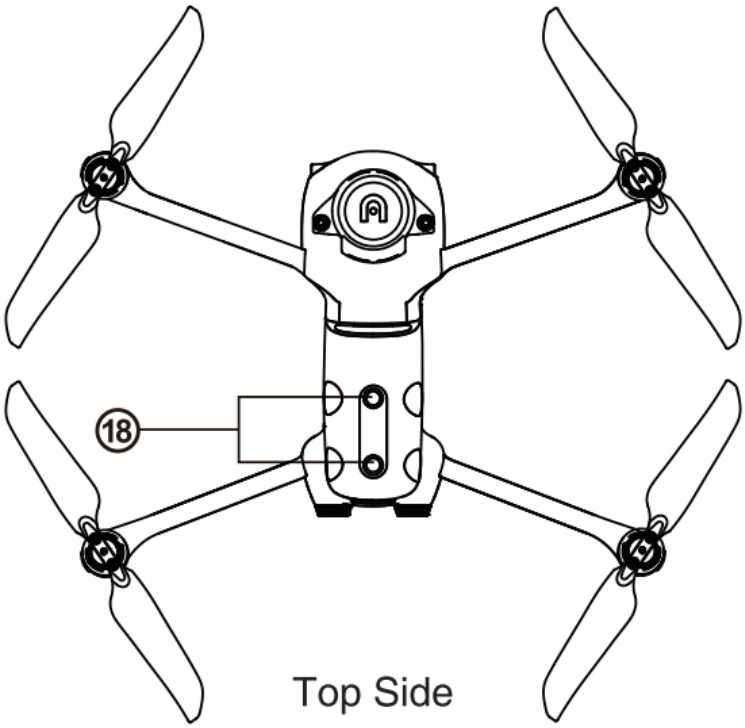


Right Side

13. Right Vision System
14. Aircraft Battery
15. Fan Exhaust
16. USB Port
17. Remote Control Pairing Button/Pairing Indicator



18. Top Vision System



19. Ultrasonic Sensor
20. Downward Vision Lighting LED
21. Downward Vision System

FLIGHT LED INDICATIONS

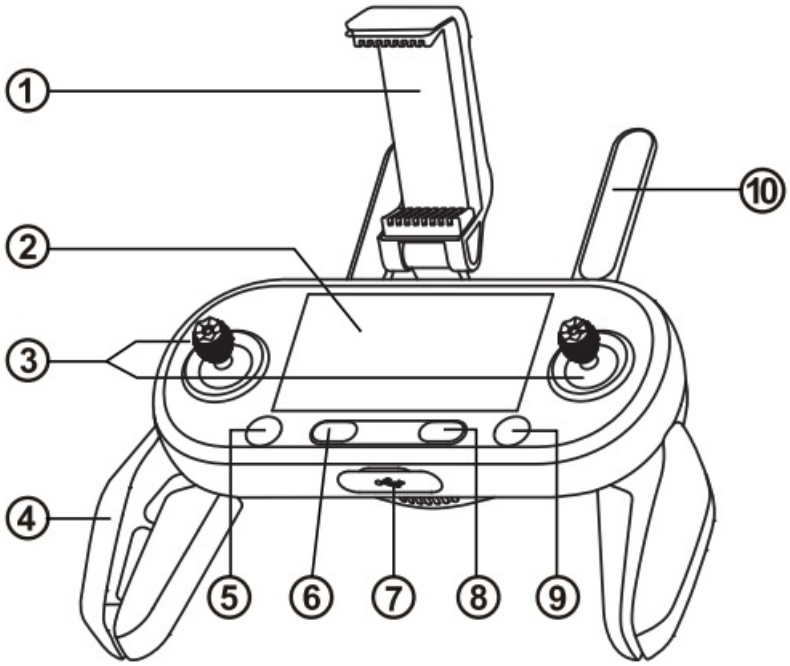
The aircraft nose LED status indicator is used to indicate the aircraft nose direction. After the aircraft is powered on, the red light will be displayed. The aircraft status indicator on the tail indicates the current status of the flight control system. Please refer to the table below to get a better understanding of the status of the flight control system indicated by different flashing modes.

Status indicator	Color
Slow flashing: flashing once every 2 seconds	R – Red
Fast flashing: flashes twice per second	G – Green
Flash twice: flash twice, then pause, then repeat th e process	Y – Yellow
Flashing alternately: Flashing alternately in differen t colors	/

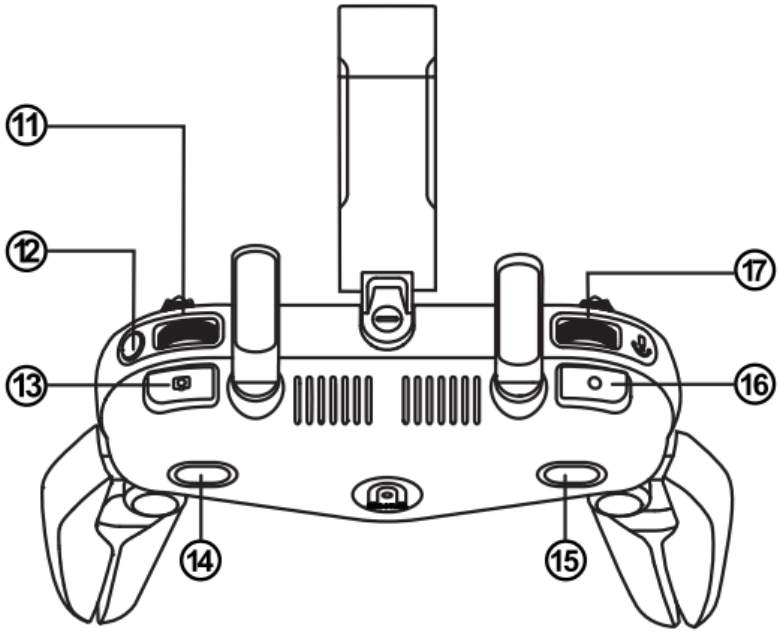
Flight LED indicator status

Normal status	
RGY- Flashing alternately	System self-check
YG- Flashing alternately	Warming up
• G- Flashing slowly	The aircraft is in GPS mode
Warnings	
Y- Flashes slowly	The aircraft is in ATTI mode
Y-Flashing quickly	There is no connection between the aircraft and the remot e controller
R- Flashing slowly	Low battery warning
R- Flashing quickly	Critical low battery alert
R- Always on	Serious problem or abnormal IMU
RY- Flashing alternately	Compass is abnormal, need calibration/magnetometer int erference
Compass calibration	
Y- Flashes quickly	Ready to calibrate the compass/aircraft is calibrating
G- Always bright	Calibration successful
R- Steady red	Calibration failed
Gesture command	
R- Fast flashing	Gesture command received

INTRODUCTION TO THE REMOTE CONTROLLER



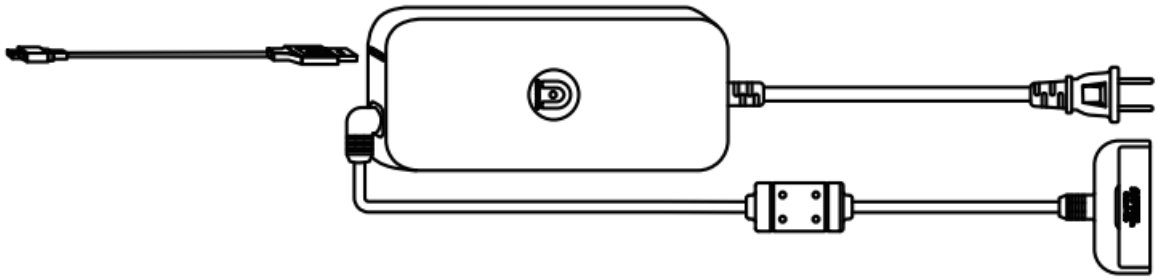
1.Mobile device stand	Adjustable 180° viewing angle to provide the best viewing effe ct.
2. Flight Information Panel	Displays flight status, warning messages and real-time video.
3. Joystick	Controls the direction and movement of the aircraft
4. Handle	Foldable to reduce storage space
5. Takeoff/Landing Button	Determines take off or landing of the aircraft
6. Power Button	Press and hold the button for 3 seconds to turn on/off the rem ote controller
7. USB Ports	Used for charging or connecting to mobile devices.
8. Pause Button	Used to instruct the aircraft to halt when flying autonomously and hover over the current position – or resume autonomous f light
9. Home Button	Command the aircraft to return to the home point
10. Antennas	The communication frequency with the aircraft is 2.4 GHz / 5. 8GHz



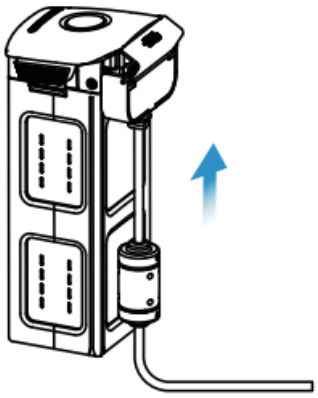
11. Screen navigation knob	Used for scrolling through the OLED display screen
12. Screen Navigation Button	After disconnecting the mobile device, press this button for 1 second to enter/exit the image transfer screen on the remote controller
13. Camera Button	Used for taking photos. After using the continuous shooting mode, click this button to take multiple pictures. For detailed instructions, Please refer to the App manual.
14. Button A	Use Autel ExplorerTM App to set functions
15. Button B	Use Autel ExplorerTM App to set functions
16. Video Button	Start or stop video recording
17. Gimbal pitch angle dial	Control the pitch angle of the camera gimbal

AIRCRAFT & REMOTE CONTROLLER CHARGING

The charger contains two ports, which can charge the aircraft battery and remote controller at the same time.



1. Aircraft battery: Insert the charging cable into the charging slot.
2. Remote controller: Open the USB port protection cover at the bottom of the remote control, and plug the USB charging cable into the charging port.



NOTE
Always use the aircraft and remote control batteries before flying.
* It takes about 90 minutes to fully charge the aircraft battery.

DOWNLOAD THE AUTEL EXPLORER™ APP

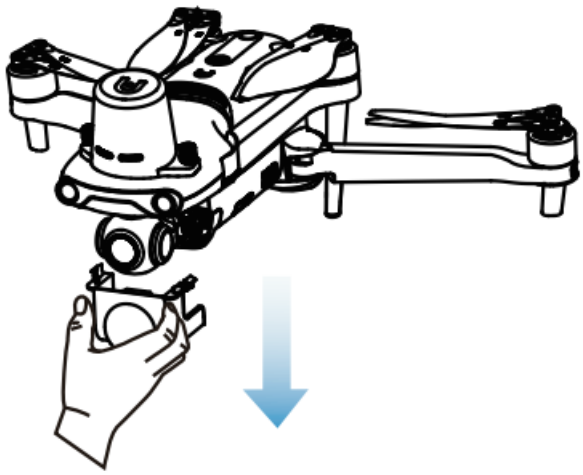
Although the aircraft can be controlled only with the remote controller, advanced flight and image capturing and video functions still require the use of the App.
Refer to the following steps to connect to the application.

1. Enter keywords “Autel Explorer” in the App Store/Google Play/Android/360 App Market/Official Website, to search and download the Autel Explorer™ app.
2. Launch the application on your mobile device.
3. Follow the on-screen instructions to connect the mobile device and the remote controller.

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

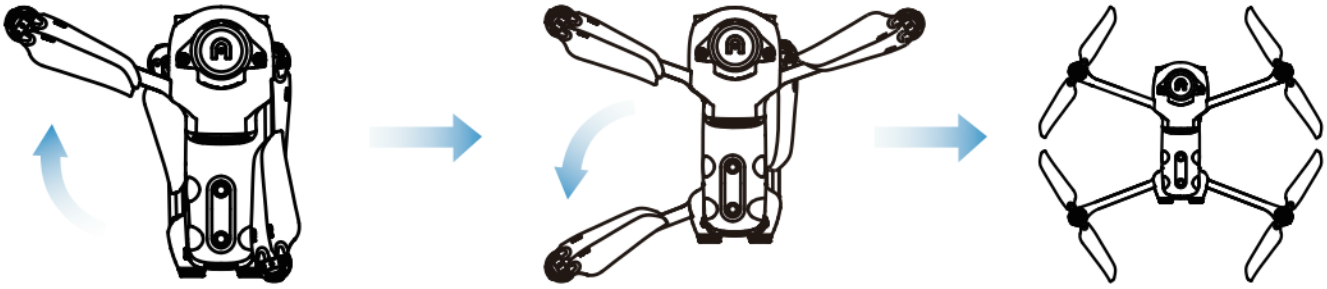
PREPARING THE AIRCRAFT

1. Please remove the gimbal protective cover before turning on the power switch of the aircraft, as shown in the figure below.



2. Unfold the arm and propeller.

IMPORTANT



Before folding the arms, turn off the power switch of the aircraft.
Fold the rear arm and screw

INSTALLING THE PROPELLER

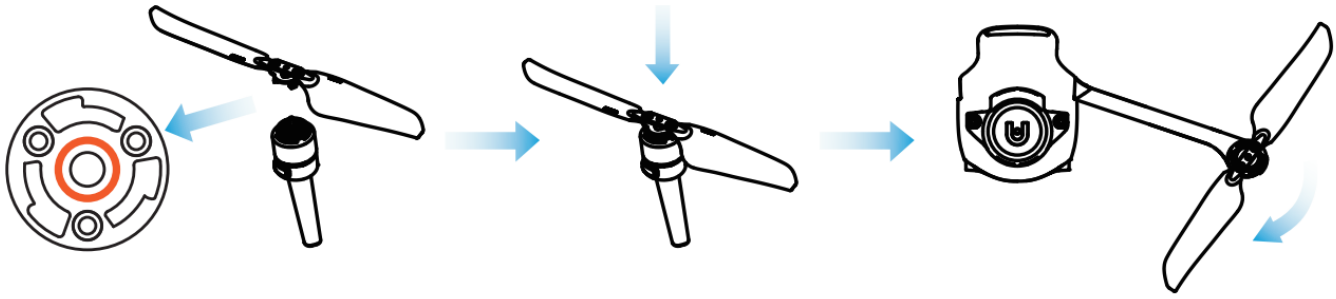
By default, the propeller is already installed on the aircraft. If you need to reinstall it, please refer to the following instructions.
NOTE:
The propeller must be intact and firmly installed on the aircraft, and the screw marked with a white circle.
Install the propeller on the motor propeller seat with a white circle mark, and install the propeller without the white circle mark.
Install the propeller on the motor propeller base without the white circle mark.

Installing the propeller

1. Confirm that the aircraft is turned off.
2. Select the propeller that matches each motor.
3. Press down the propeller firmly, and then turn it in the locking direction to make the propeller securely installed.

Removing the propeller

1. Turn off the aircraft.
2. Press down the propeller firmly, and then turn it in the unlocking direction to remove the propeller. P



Description

	Lock direction: Rotate in the indicated direction to fix the propeller. Unlocking direction: Rotate the propeller as instructed to loosen it.
	Propeller without white ring mark>Pairing>Motor propeller seat without white ring mark.
	The white circle marks the propeller>Pairing>White circle marks the motor propeller seat

CAUTION

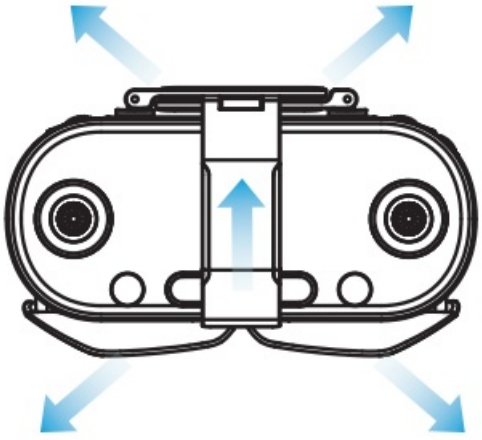
Before installing or removing the propeller, turn off the power switch of the aircraft.

IMPORTANT

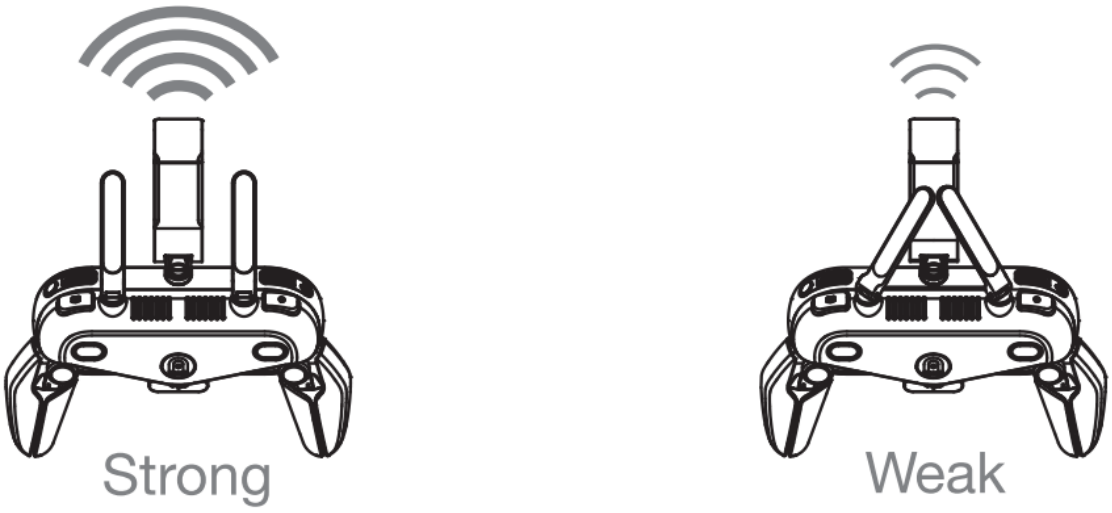
Wear protective gloves when installing or removing the propeller.

PREPARING THE REMOTE CONTROLLER

1. Unfold the mobile device bracket, antenna, and handle in sequence.

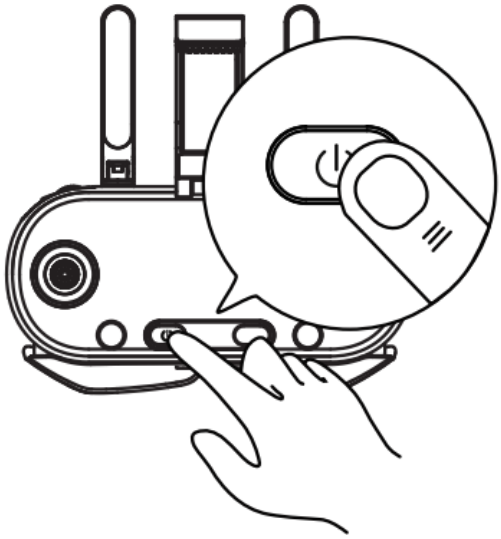


2. Place the antenna vertically to get the strongest signal.

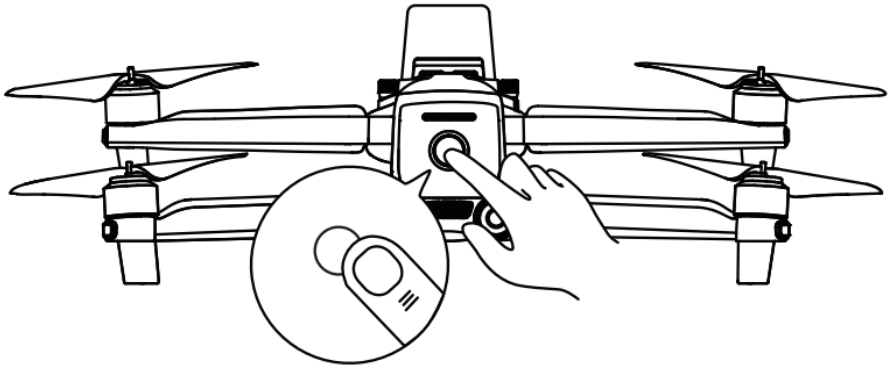


POWERING UP

1. Long press the power switch for 3 seconds to turn on the remote controller.

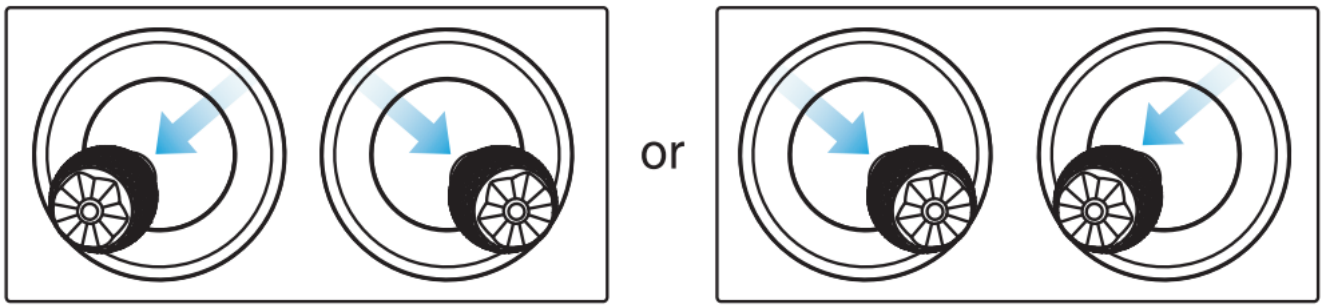


2. Long press the power button for 3 seconds to turn on the aircraft. The battery indicator will light up to display the current battery level of the aircraft.

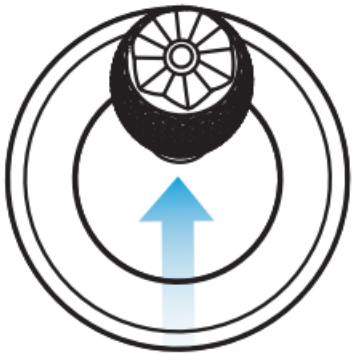


TAKING OFF

1. Before takeoff, please place the aircraft on flat ground with the tail facing towards you.
2. Simultaneously move the joystick in inwards or outwards and hold for 2 seconds:



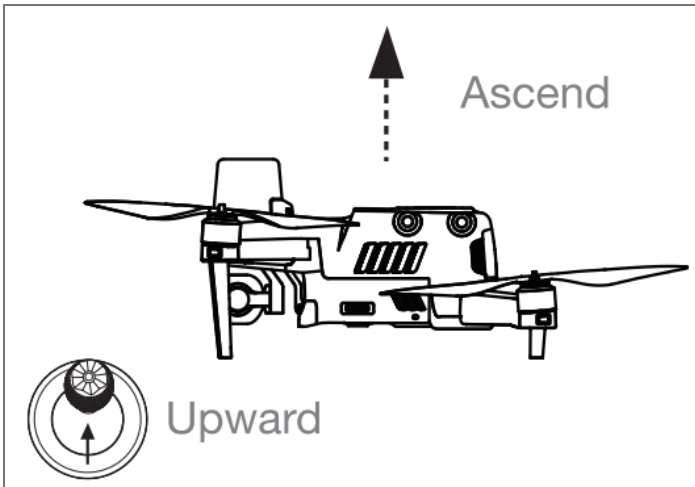
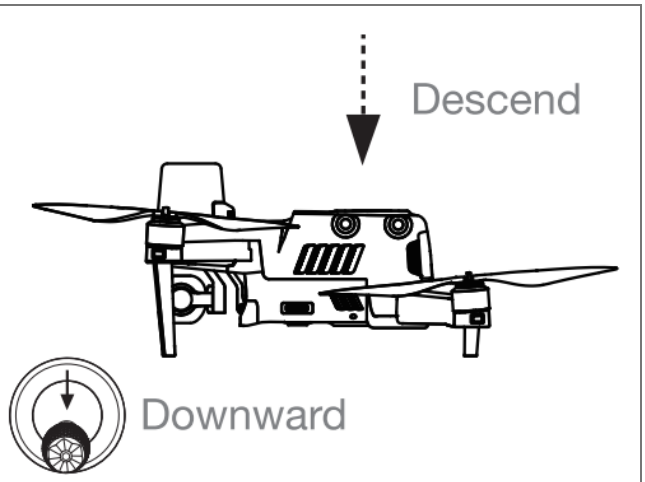
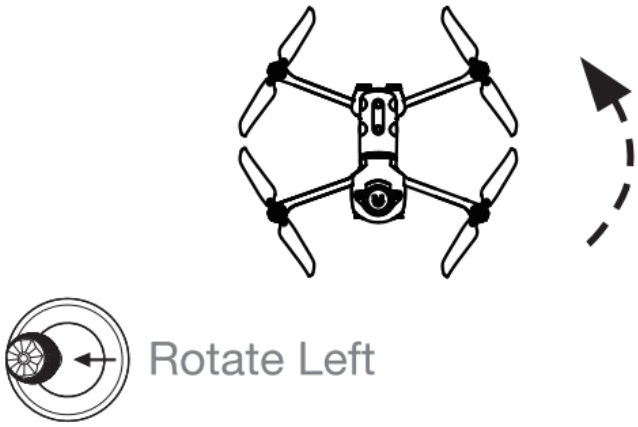
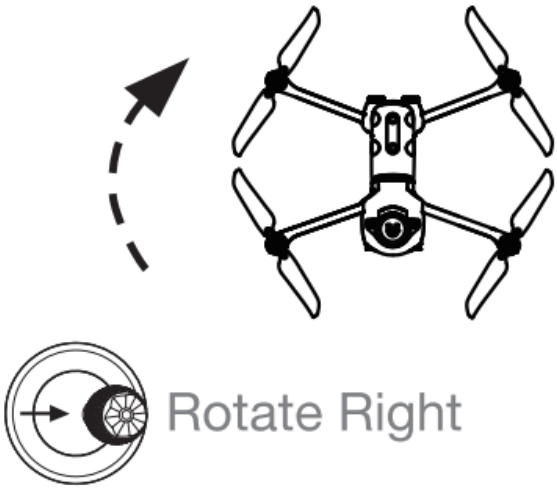
3. After the motors have been started, you can choose any of the following methods to command the aircraft to take off:

	
Hold the Takeoff/Landing Push the Left Command	Button for 3s Stick slowly upward (Mode 2)

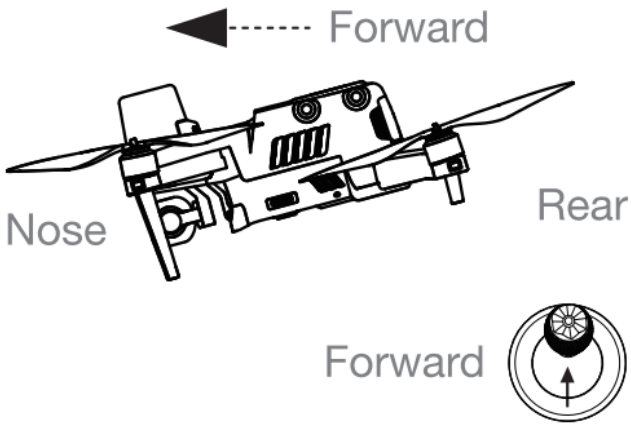
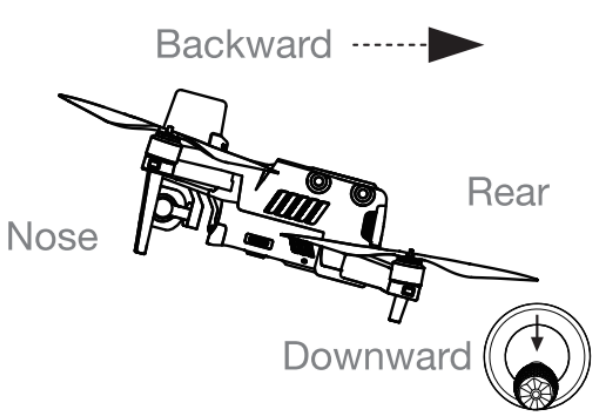
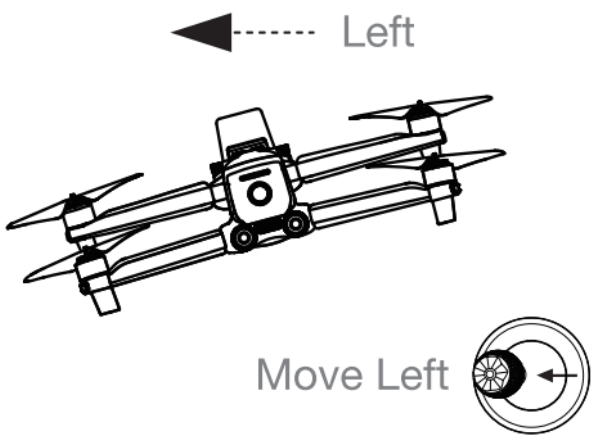
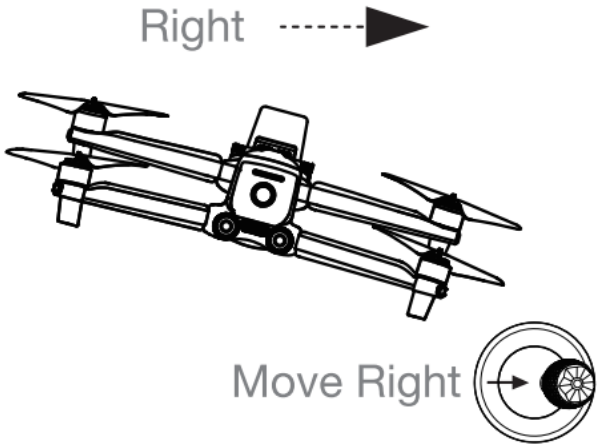
NOTE: Before taking off, place the airplane on a flat level surface with the tail of the airplane facing towards you.

COMMAND STICK CONTROLS(MODE 2)

Left Command Stick

	
Left Side Veiw	**Left Side Veiw**
	
Nose Rotates Left	**Nose Rotates Right**

Right Command Stick

	
Left Side Veiw	**Left Side Veiw**
	
Rear View	**Rear View**

A TRADITION IN PRECISION

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Documents / Resources

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References

- **Kuker-Ranken (KR) – The Largest Construction and Land Surveying Supplier in the Northwest.**