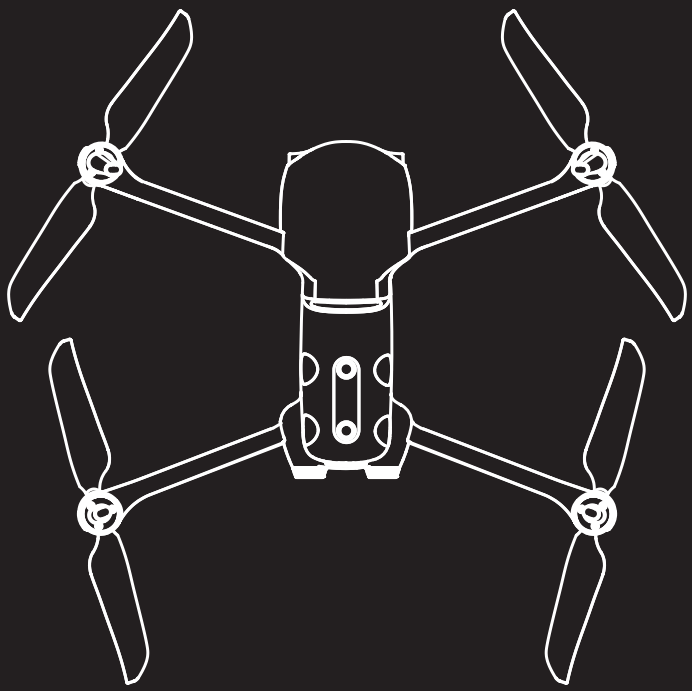
QUICK GUIDE

For EVO Ⅱ Dual 640T



AUTEL
ROBOTICS

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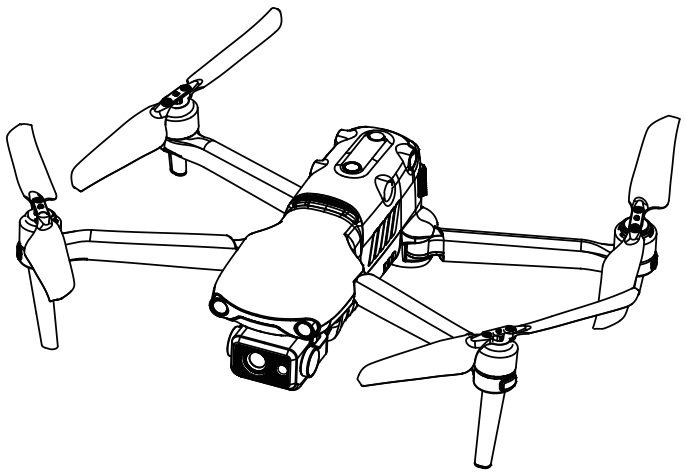
1. WELCOME TO THE EVO II Dual 640T

Welcome to the Autel Robotics family! Now you can explore, discover and create like never before. The EVO II Dual 640T delivers not only advanced features like obstacle avoidance and intelligent flight modes, but also high-tech muscle that brings home a top speed of 45mph, 33-minute hover time, 38-minute flight time and an operating distance of 5.6 miles.

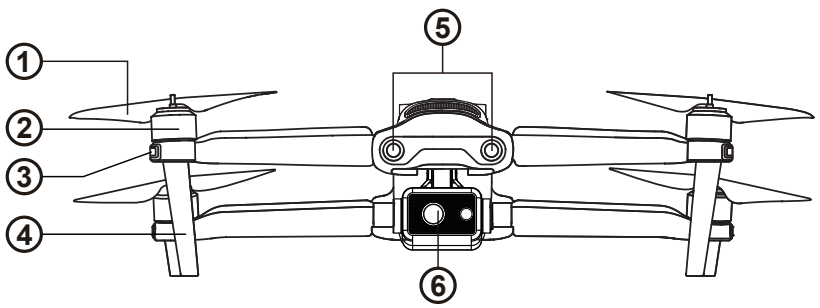
In-flight performance is just the start. The EVO II Dual 640T has a radiometric thermal sensor and it's stabilized 3-axis camera allows you to shoot at up to 8K/25 fps, and view the live feed at up to 1080p on your mobile device or the remote control's built-in OLED screen. Use this guide to get an overview of EVO II Dual 640T's features and how to use them.



⚠ IMPORTANT:

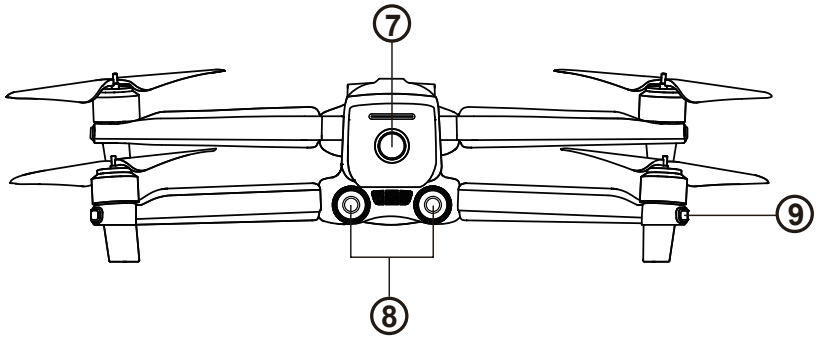
Please review all documentation before your first flight. Failure to operate the aircraft responsibly could lead to injury or damages and may void any applicable warranty coverage

2. AIRCRAFT FRONT, REAR & LEFT VIEWS



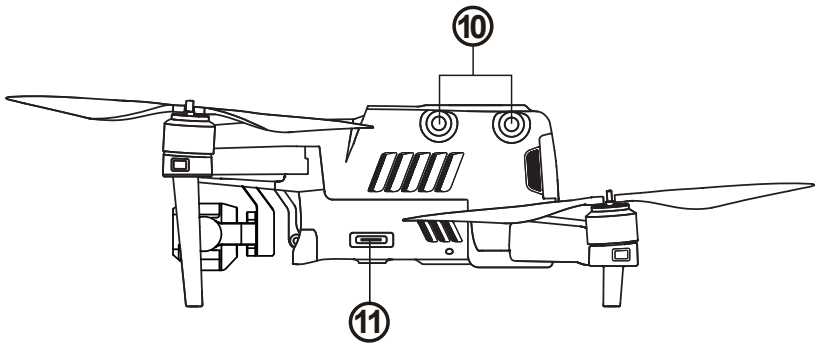
Front Side

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



Rear Side

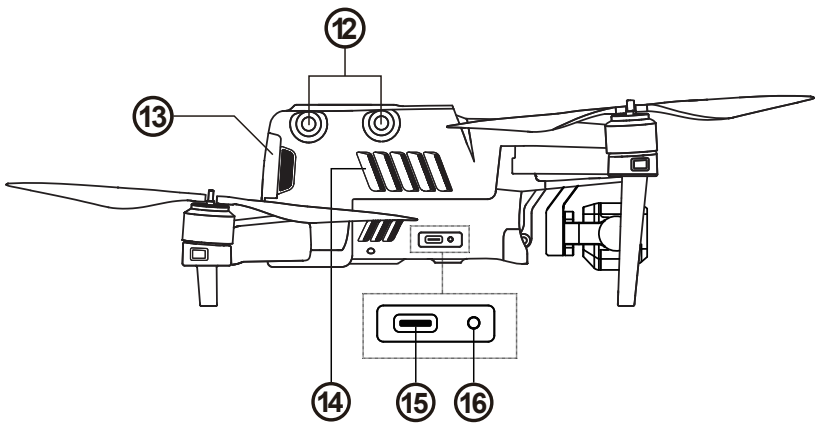
⑦ Power Button
⑧ Rear Vision System
⑨ Rear LED Indicators



Left Side

⑩ Left Vision System
⑪ SD Card Port

3. AIRCRAFT RIGHT, TOP & BOTTOM VIEWS



Right Side

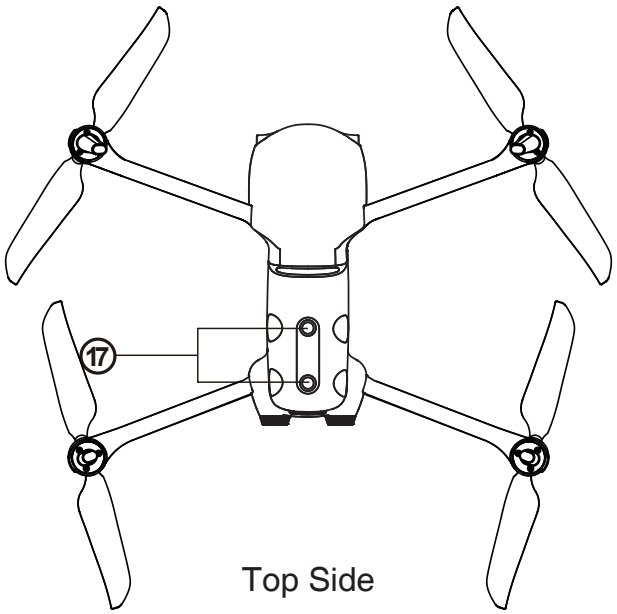
⑫ Right Vision System

⑬ Aircraft Battery

⑭ Fan Exhaust

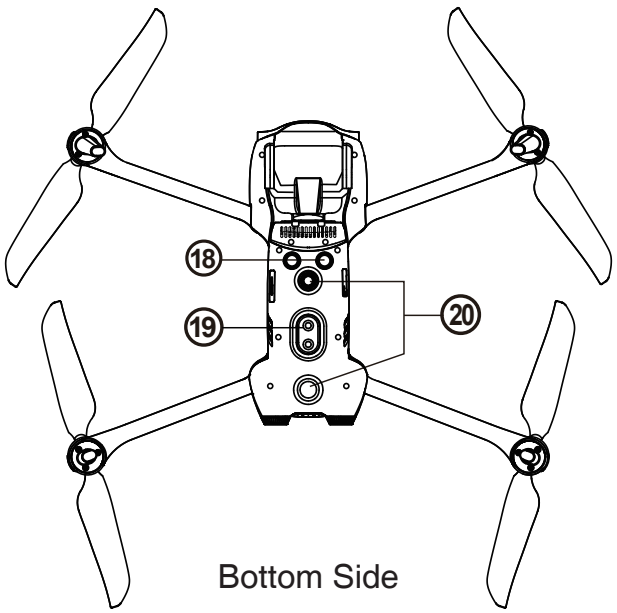
⑮ USB Port

⑯ Remote Control Pairing Button/Pairing Indicator



Top Side

⑰ Top Vision System



Bottom Side

⑱ Ultrasonic Sensor

⑲ Downward Vision Lighting LED

⑳ Downward Vision System

4. FLIGHT LED INDICATIONS

A LED indicator is located on the end of each aircraft arm. The front LEDs will light up solid red to help you identify the direction of the aircraft's nose. The rear LEDs will display the current flight status of the aircraft. The chart below shows the meaning of each status indicator.

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

Indicator Key:

Slow Flashing: Flashes once every 2 seconds

Fast Flashing: Flashes twice per second

Double Flashing: Flashes twice then pauses and repeats

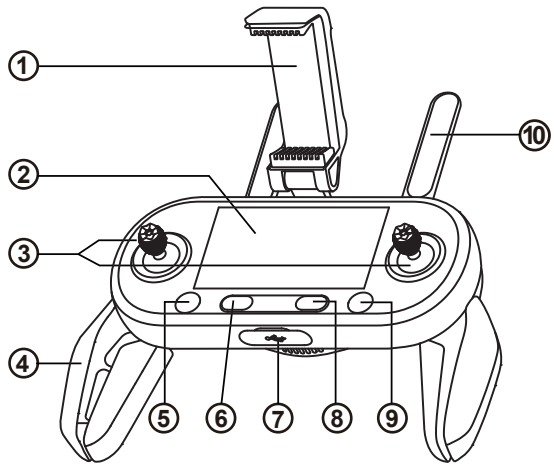
Alternate Flashing: Alternates among different colors

Example: “R - Solid Light” means solid red light.

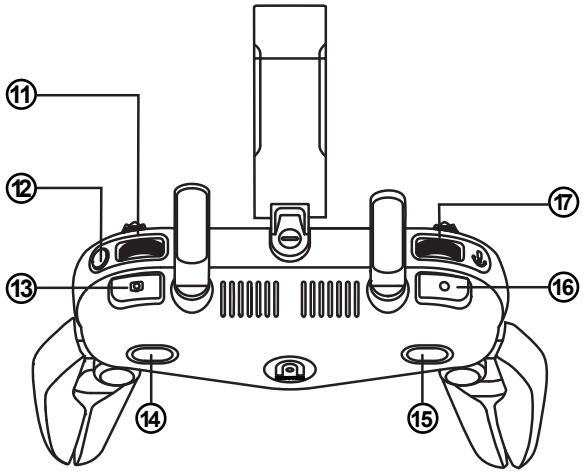
Definitions of Flight LED Indicator Status	
Normal Status	
RGY - Alternate Flashing	System self-test is activated
YG - Alternate Flashing	The aircraft is warming up
G - Slow Flashing	The aircraft is in GPS mode
Warning	
Y - Slow Flashing	The aircraft is in ATTI mode
Y - Fast Flashing	No connection between the aircraft and remote control
R - Slow Flashing	Low Battery Warning
R - Fast Flashing	Critically Low Battery Warning
R - Solid Light	Critical problems, IMU error
RY - Alternate Flashing	Abnormal compass, calibration is required / Magnetometer interference
Compass Calibration	
Y - Fast Flashing	Ready to calibrate the compass / The aircraft is calibrating
G - Solid Light	Calibration is successful

R - Solid Light	Calibration is failed
Gesture Commands	
R - Fast Flashing	Gesture command has been received

5. REMOTE CONTROL



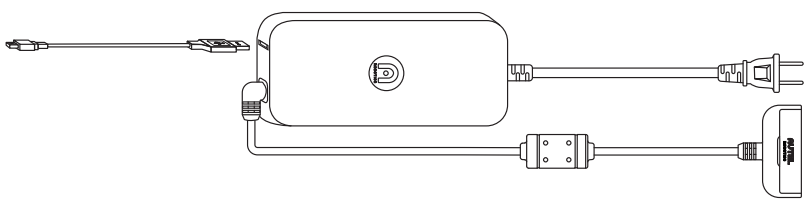
① Mobile Device Holder	With a 180° adjustable viewing angle for optimum visibility
② Flight Information Panel	Displays the flight status, warning messages and live video feed
③ Command Sticks	Control the orientation and movement of the aircraft
④ Hand Grips	Foldable to allow for compact storage
⑤ Take-off/Landing Button	Commands the aircraft to take off or land
⑥ Power Button	Press and hold the button for 2 seconds to turn on/off the remote control
⑦ USB Ports	Used for charging or connecting to a mobile device
⑧ Pause Button	Tells the aircraft to pause autonomous flight operations and hover in place, or resume autonomous flight operations.
⑨ Go Home Button	Commands the aircraft to return to the home point
⑩ Antennas	Communicates with the aircraft at 2.4 GHz / 5.8GHz



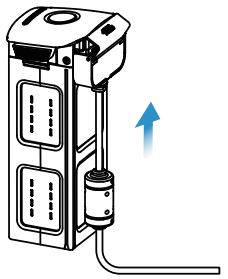
⑪ Screen Navigation Dial	Scrolls around the OLED screen
⑫ Screen Navigation Button	When the mobile device is disconnected, press this button for 1 second to enter/exit the Image Transmission screen on the remote control
⑬ Shutter Button	Takes photos. When Burst Mode is in use, several images will be taken with one press. For details, see the App Manual.
⑭ Button A	Function can be set using the Autel Explorer™ app
⑮ Button B	Function can be set using the Autel Explorer™ app
⑯ Record Button	Starts or stops recording video
⑰ Gimbal Pitch Dial	Controls the pitch angle of the camera gimbal

6. CHARGING THE AIRCRAFT & REMOTE CONTROL

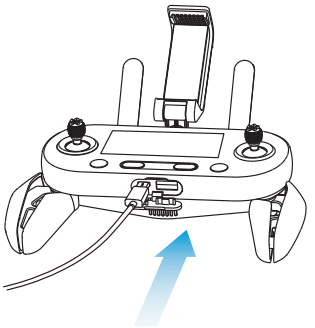
The aircraft battery and remote control can be charged simultaneously using the supplied charger.



1) Aircraft Battery: Plug the charging connector into the battery's charge port.



2) Remote Control: Open the protector on the USB port and plug in the provided charging cable.



NOTE

- Always fully charge the aircraft and remote control battery before flying.
- It takes approximately 90 minutes to fully charge the aircraft battery, and 180 minutes to charge the remote control.

7. INSTALLING THE AUTEL EXPLORER™ APP(OPTIONAL)

The Autel Explorer™ app delivers a live stream, and enhanced flight and camera controls to your mobile device. Follow the steps below to get connected.

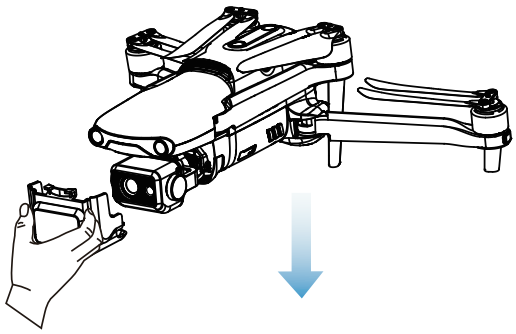
1. Search for 'Autel Explorer' from the App Store or Google Play and install the app for EVO II on your mobile device.
2. Launch the app on your mobile device.
3. Connect the mobile device to the remote control by following the onscreen prompts.

Available on the App Store Get it on Google play

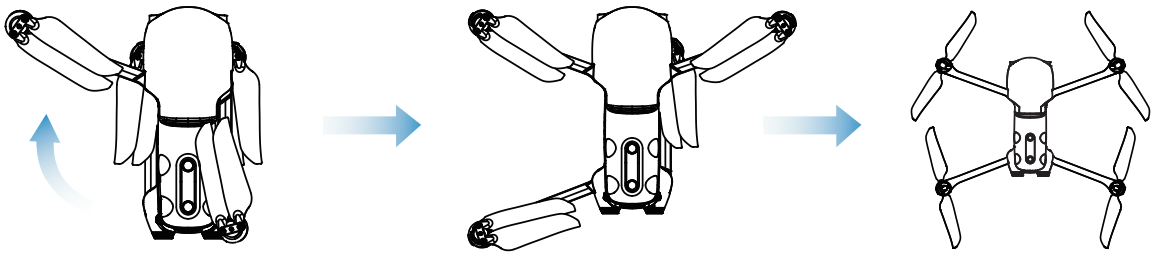
NOTE: Autel Explorer supports iOS 9.0 or later and Android 4.4 or later.

8. PREPARING THE AIRCRAFT

1) Remove the Gimbal Holder.



2) Unfold the arms and propellers



⚠ IMPORTANT

Ensure the aircraft is powered off before folding the arms. Fold in the rear arms and propellers first, and then the front arms.

9. INSTALLING NEW PROPELLERS

The propellers come already attached to the aircraft, the following instructions only apply if you need to reinstall the propellers. Before each flight check the propellers for damage and ensure they are firmly attached.

The white-coded propellers are paired with the white-coded motors.

- Attaching the Propellers

1). Verify that the aircraft is powered off.

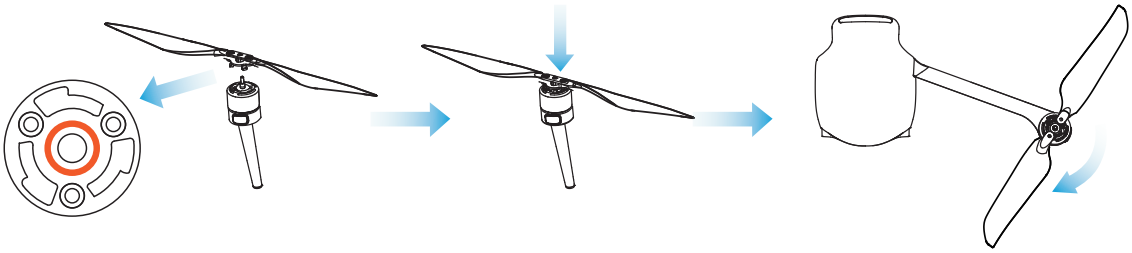
2). Locate and match the propeller to each motor.

3). Press each propeller down firmly and rotate in the lock direction to securely attach the propeller.

- Detaching the Propellers

1). Power off the aircraft.

2). Press each propeller down firmly and rotate in the unlock direction to detach the propeller.



Legend

Lock Direction: Fasten the propeller by rotating it as indicated.

Unlock Direction: Unfasten the propeller by rotating it as indicated.

Black-coded propeller > Pairs with > Black-coded motor

White-coded propeller > Pairs with > White-coded motor

⚠ **WARNING**

Power off the aircraft before attaching or detaching propellers.

⚠ **IMPORTANT**

Wear protective gloves when attaching or detaching propellers.

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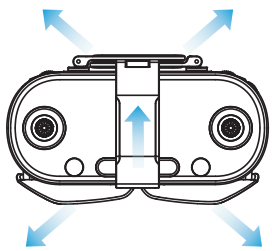
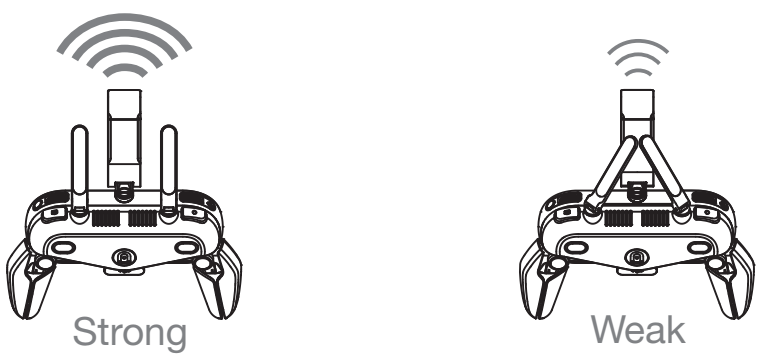
10. PREPARING THE REMOTE CONTROL

1). Unfold the hand grips, mobile device holder, and antennas.

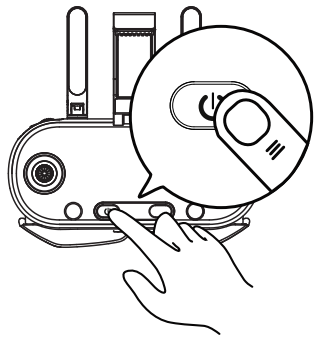


2). Position the antennas vertically in order to ensure the strongest possible signal.

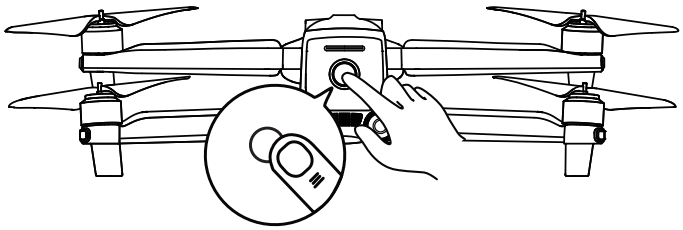


11. POWERING UP

1.Turn on the remote control. Press and hold the power button for 2 seconds.

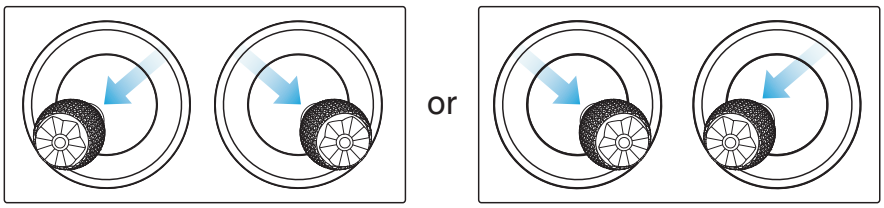


2. Turn on the aircraft. Press and hold the aircraft power button for 3 seconds. The current battery level will be clearly displayed.



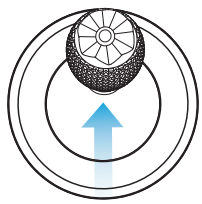
12. TAKEOFF

1. Place aircraft on a level surface. Stand clear of the aircraft.
2. Start the motors by holding both command sticks for two seconds in one of these positions:



3. With the motors spinning, choose one of the following methods to take off:

Hold the Takeoff/Landing Button for 3s



Push the Left Command Stick slowly upward (Mode 2)

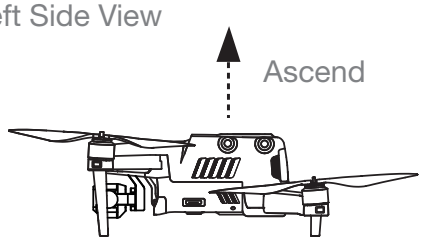
NOTE: Before takeoff, place the aircraft on a flat and level surface and stand clear of the aircraft.

13. COMMAND STICK CONTROLS(MODE 2)

Left Command Stick

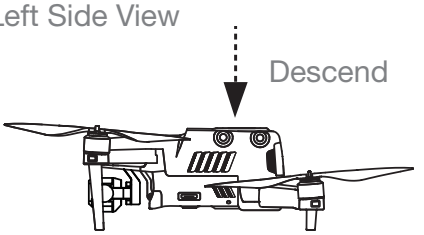
Ascend/Descend

Left Side View



Upward

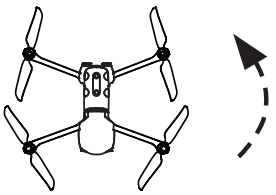
Left Side View



Downward

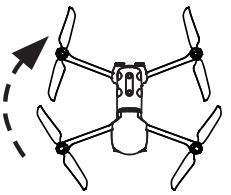
Rotate Left/Right

Nose Rotates Left



Rotate Left

Nose Rotates Right

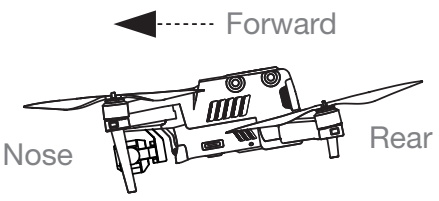


Rotate Right

Right Command Stick

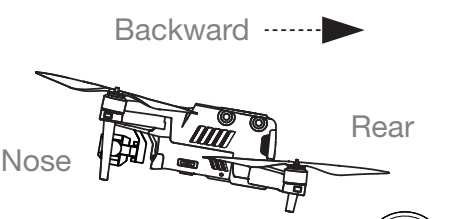
Forward/Backward

Left Side View



Forward

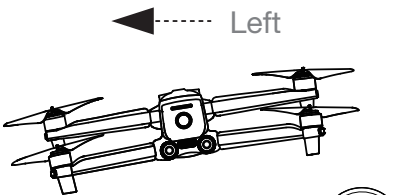
Left Side View



Downward

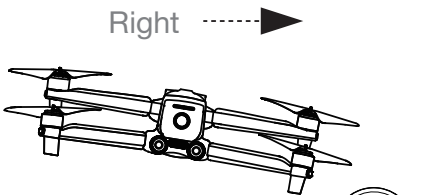
Move Left/Right

Rear View



Move Left

Rear View



Move Right

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