**Manuals+** — User Manuals Simplified.



# AUTEL ROBOTICS EVO II RTK V3 Series Rugged Bundle Camera Drone User Guide

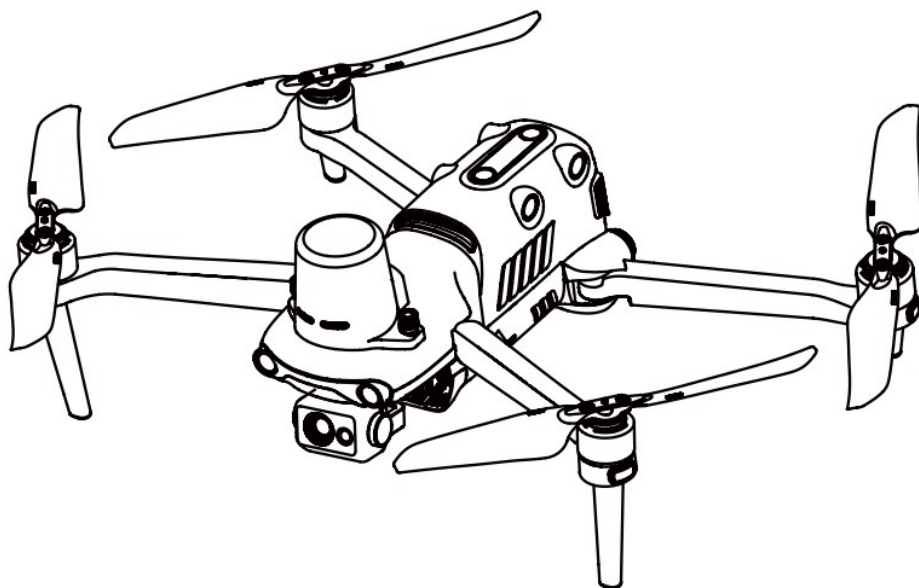AUTEL ROBOTICS EVO II RTK V3 Series Rugged Bundle Camera Drone User Guide



**Contents**

## OVERVIEW

The EVO II RTK Series V3 brings excellent flight performance, achieving a top speed of 20m/s (45mph), 36-minute flight time, and an operating distanceat 15km (9.32miles, FCC). The aircraft comes with a 7.9 inch touch-screen controller, boasts a 2048×1536 pixel resolution.
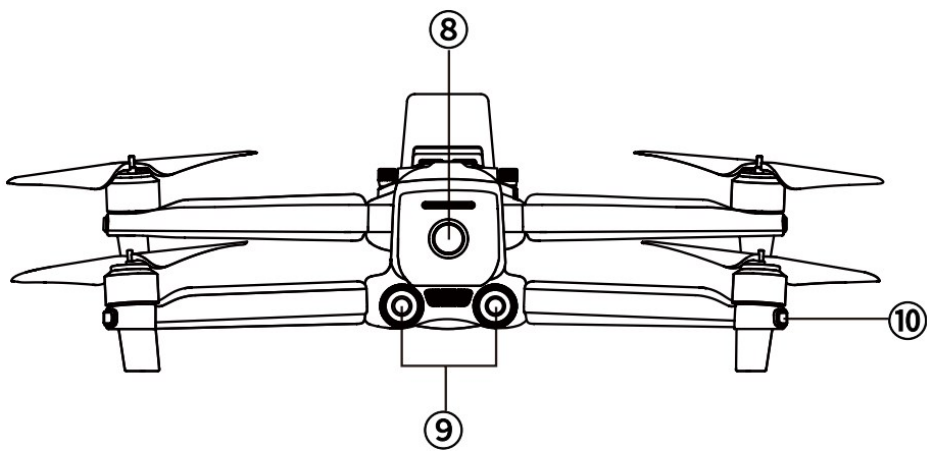


⚠ **NOTE:**

Please read 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.
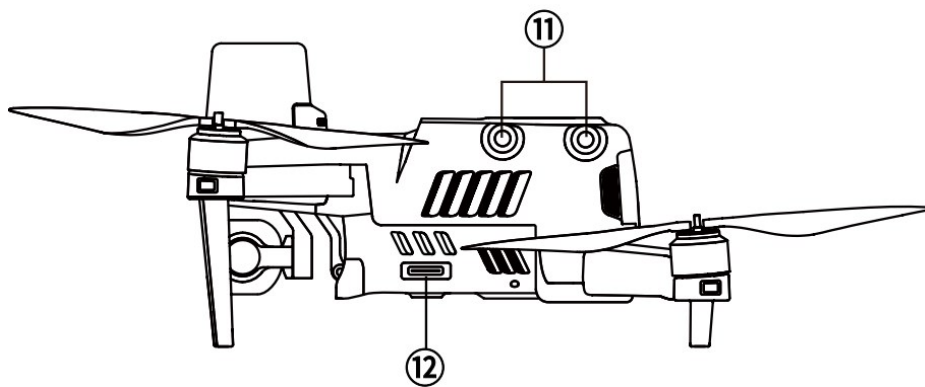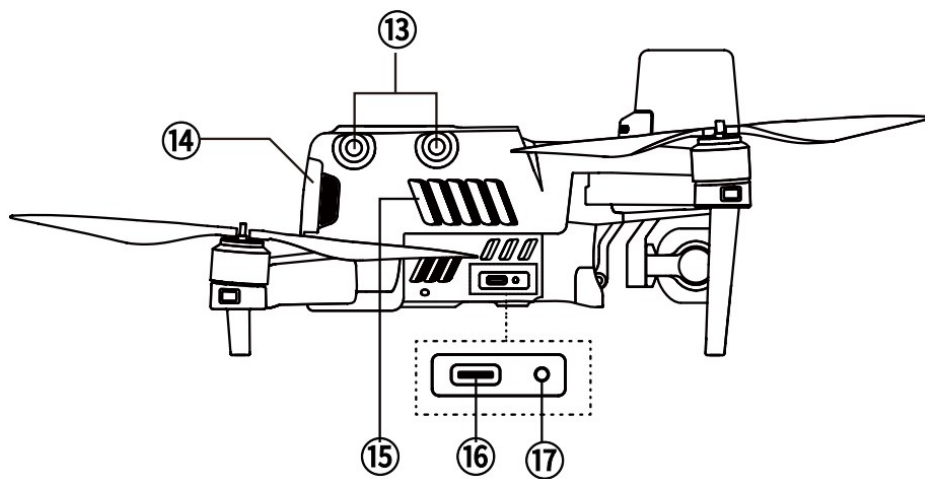
## AIRCRAFT
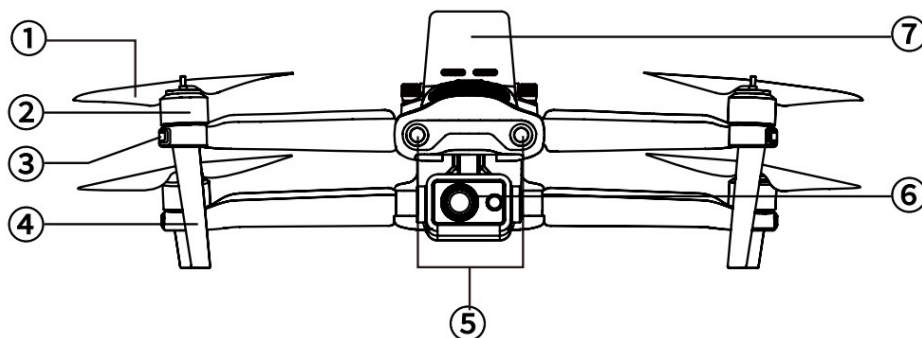


1. Propellers
2. Motors
3. Front LED Indicators
4. Landing Gear
5. Front Vision System
6. Gimbal Camera
7. RTK Module
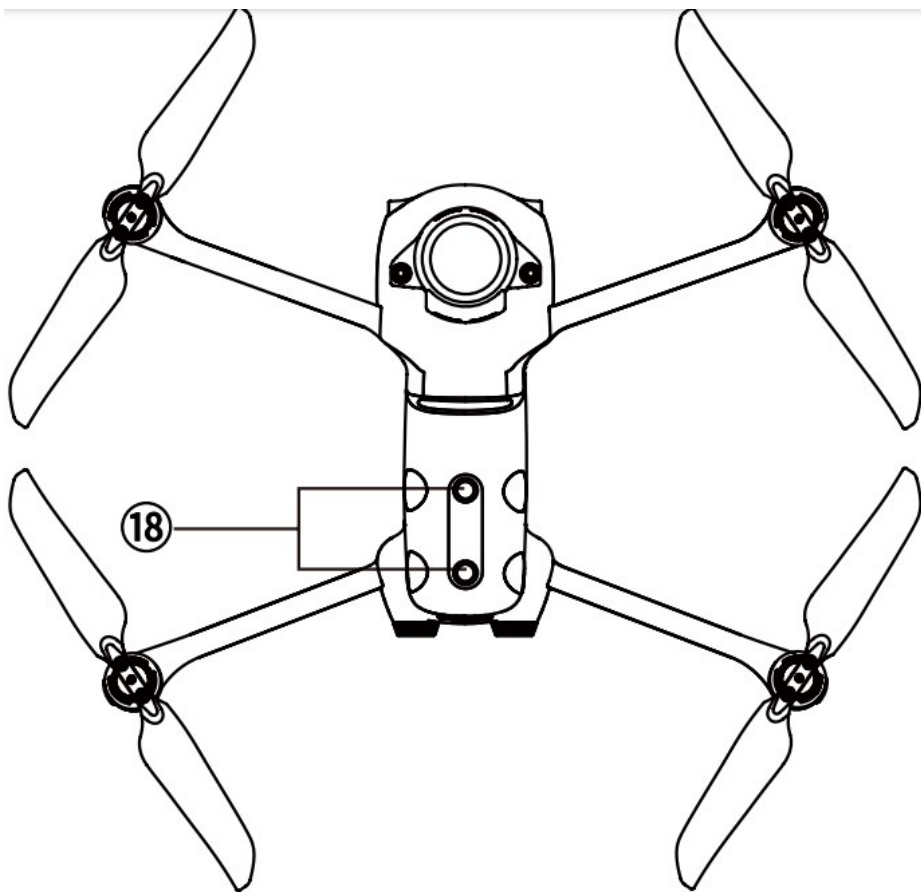
8. Power Butto

9. Rear Vision System

10. Rear LED Indicators
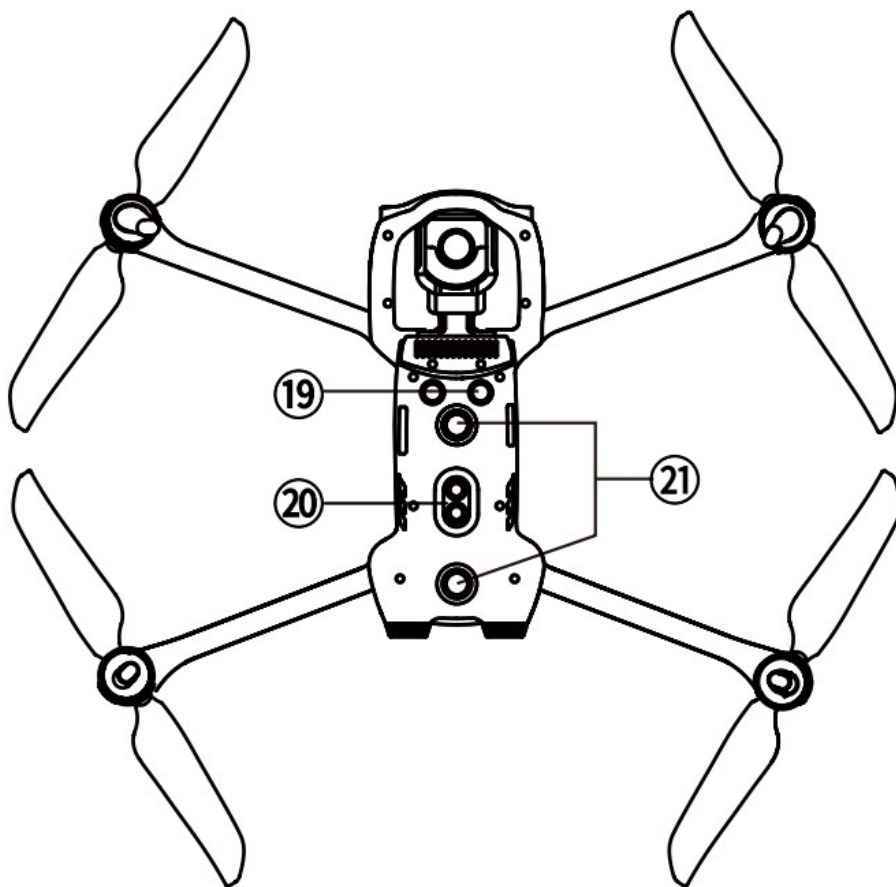


11. Left Vision System

12. SD Card Slot



13. Right Vision System

14. Aircraft Battery

15. Air Vent

16. USB Port

17. Pairing Button / Pairing Indicator

18. Upward Vision System

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

## 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.

**Indicator Key: Color Key**
**Slow Flashing:** Flashes once every 2s **R** – Red Color
**Fast Flashing**: Flashes twice per second **G** – Yellow Color
**Alternate Flashing:** Alternates among different colors **Y** – Green Color

| Definitions of Indicator Status | |
| --- | --- |
| **Normal** | |
| 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 smart controller |
| 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 | Be ready to calibrate the compass/ The aircraft is calibrating |
| G – Solid Light | Calibration is successful |
| R – Solid Light | Calibration is failed |

## REMOTE CONTROLLER
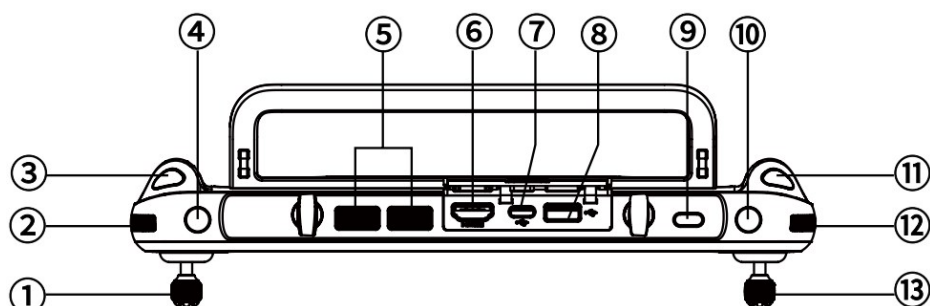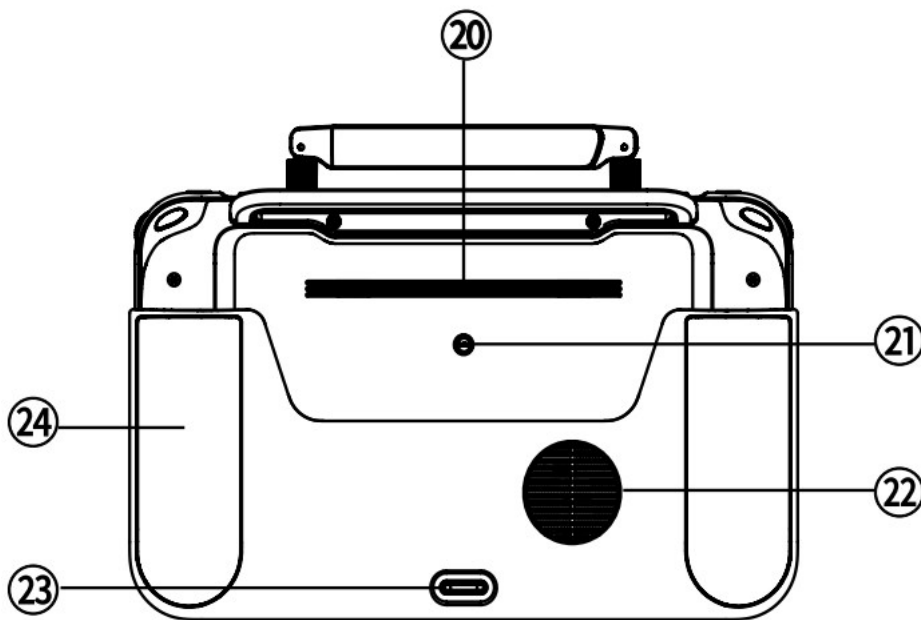


1. Left Command Stick

2. Gimbal Pitch Angle Wheel

3. Video Recording Button

4. Customizable Button C1

5. Air Outlet

6. HDMI Port

7. USB-C Port

8. USB-A Port

9. Power Button

10. Customizable Button C2

11. Photo Shutter Button

12. *Zoom Control Wheel

13. Right Command Stick
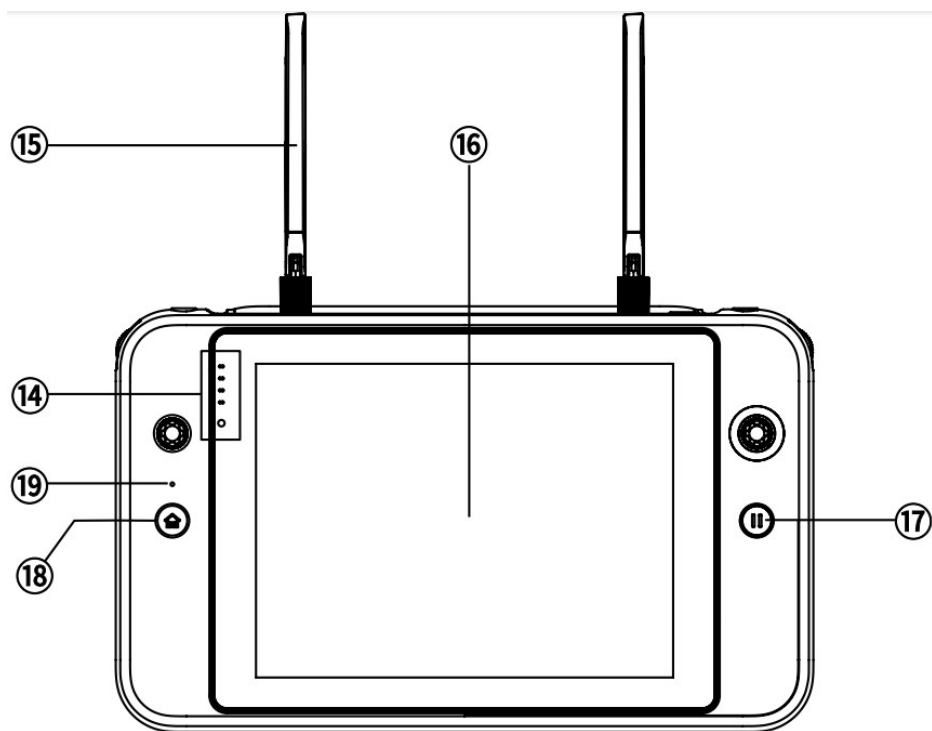


14. Battery Indicator

15. Antenna

16. Touch Screen

17. Pause Button

18. Auto-takeoff/ RTH Button

19. Microphone

20. Speaker Hole

21. Tripod Mount Hole

22. Air Vent

23. Bottom Hook

24. Grips

## CHARGING

**Aircraft Battery:** Plug the charging connector into the battery's charge port, and connect the other end to power adapter. Plug the power adapter into a power outlet (100-240V AC).
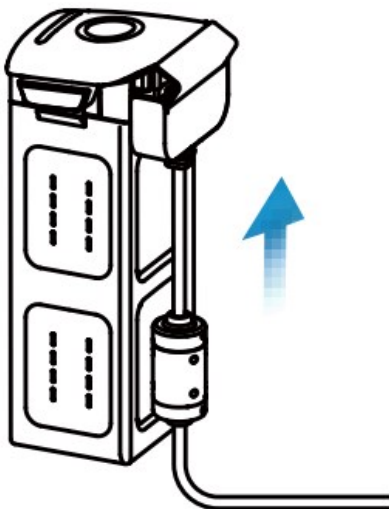


**Controller:** Connect the charging cable to the USB port at the top of the controller, and the other end to power adapter. Plug the power adapter into a power outlet (100-240V AC).
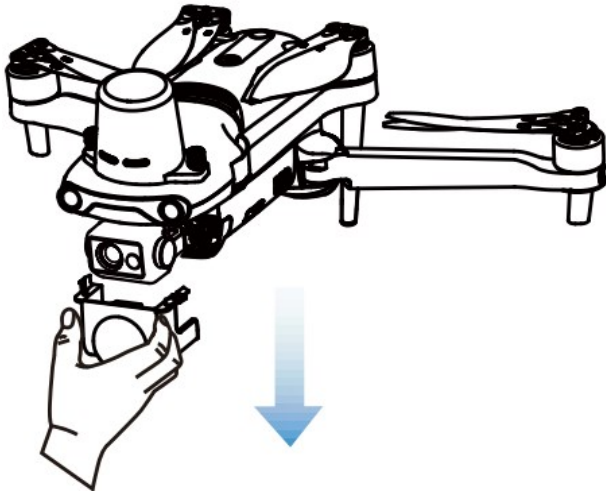
## NOTE:

- Always fully charge the aircraft and smart controller batterybefore flying.
- It takes approximately 90 minutes to fully charge the aircraft battery,and 120 minutes to charge the controller.
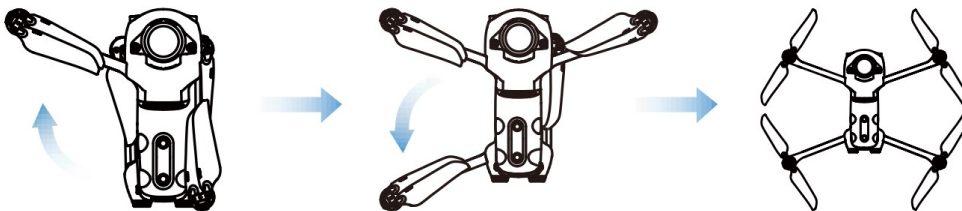
## AUTEL EXPLORER APP

Search for 'Autel Explorer' from Google Play and install the app on your controller.

## PREPARING THE AIRCRAFT

Before powering on the aircraft, please remove the gimbal guard.

Unfold the arms and propellers

**NOTE:**
Power off the aircraft before folding the arms. Fold in the rear arms and propellers first, and then the front ones.

## PROPELLERS

Because the propellers come attached to the aircraft, the following instructions apply if you need to reinstall propellers.
**Attaching the Propellers**

1. Power off the aircraft.
2. Pair the propellers and corresponding motors according to the white mark .
3. Press each propeller down firmly and rotate in the lock direction to securely attach the propeller.
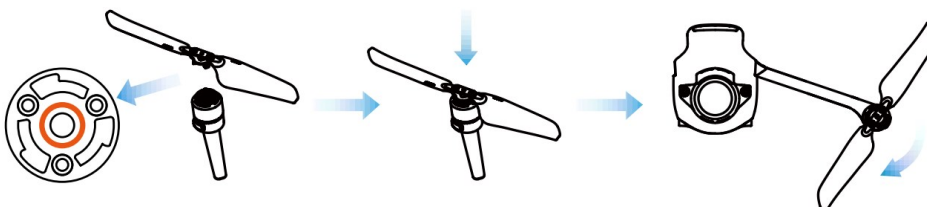
**Detaching the Propellers**

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.
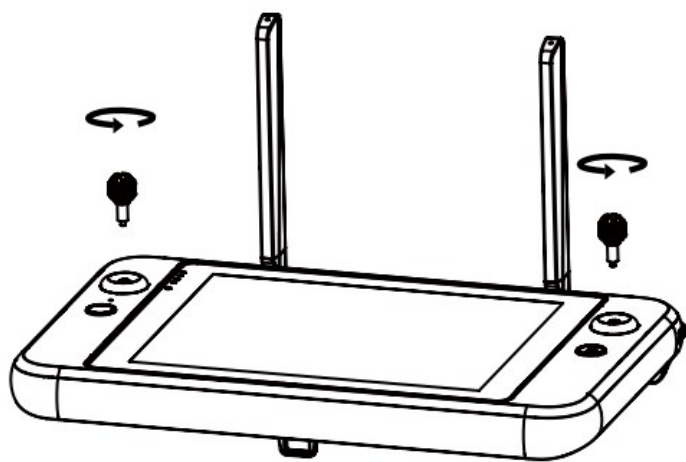
⟲ **Unlock Direction:** Unfasten the propeller by rotating is as indicated.

**NOTE:**

- Power off the aircraft before attaching or detaching propellers.
- Propellers must be undamaged and firmly attached.

## PREPARING THE CONTROLLER



1. Unfold the antenna, detach the stick heads on the back of the controller handle, and screw them into the corresponding screw holes on both sides of the screen.
2. Adjust the antenna angle, and when the antenna and the back of the controller are at the angle of 180 or 260, and the antenna surface is facing the aircraft, the signal quality of the aircraft and controller will reach the optimal condition.
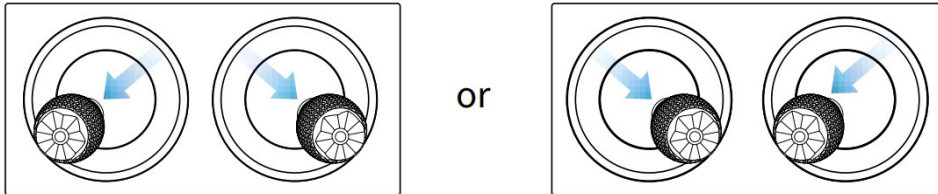
100°
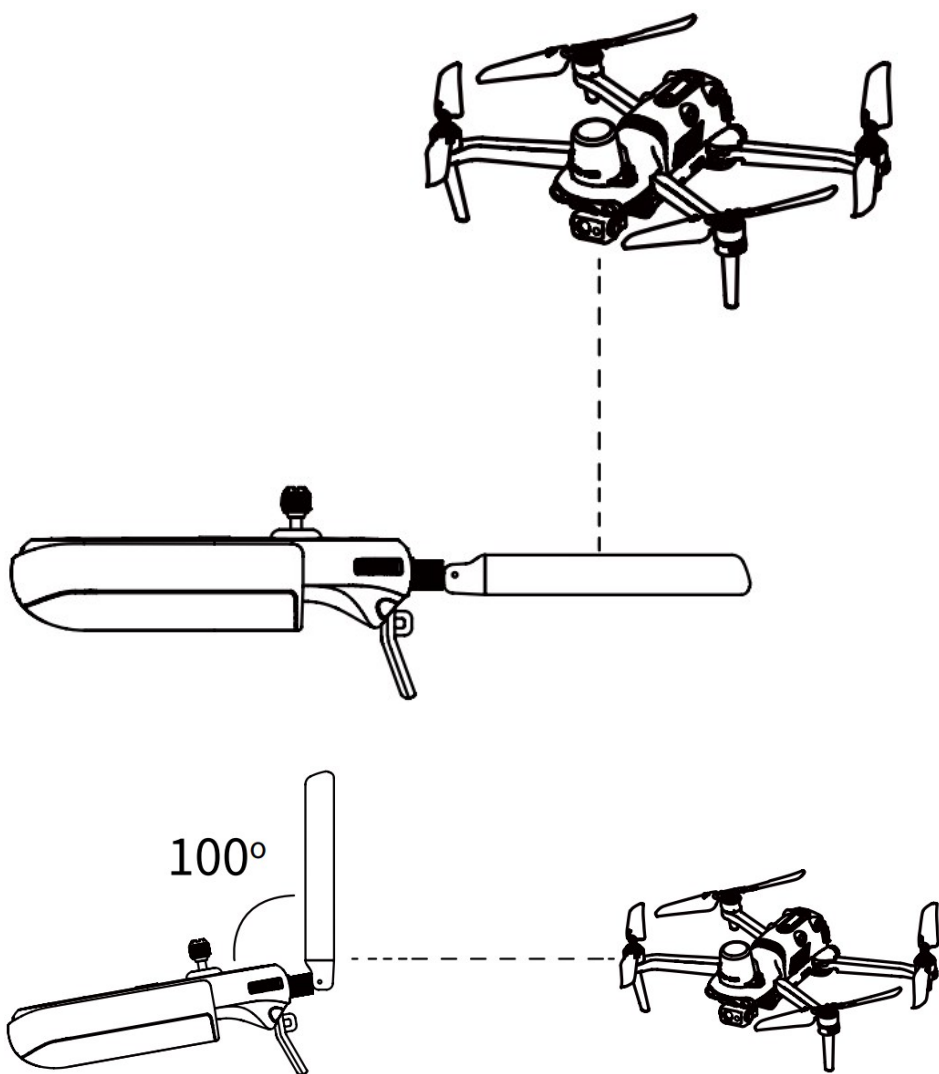


**POWERING UP**
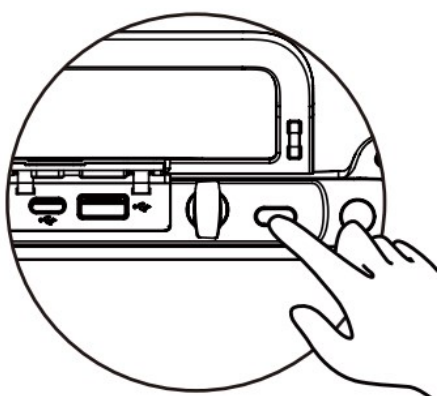


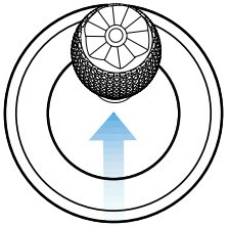Press and hold the power button for 2 seconds to turn on the controller.
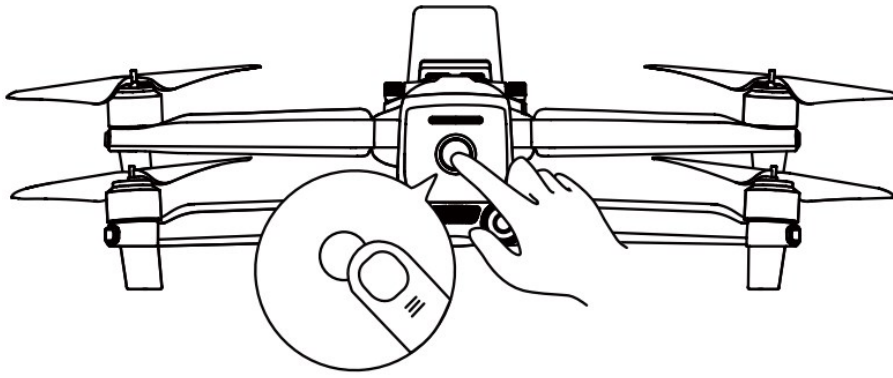
Press and hold the power button 3 seconds to turn on the aircraft.The current battery level will be clearly displayed.

## TAKE OFF

Start the motors by holding both command sticks for two seconds as shown below.



or



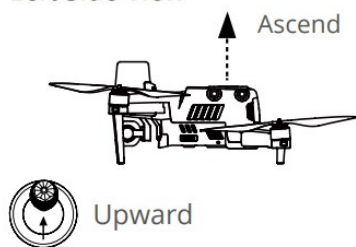Push the left command stick slowly upward.



**NOTE:**
The default control stick mode is mode 2. The left stick controls the altitude and heading of the aircraft, while the right stick controls the forward, backward and sideward movements.
Before takeoff, place aircraft on a level surface, stand well clear of the rear of the aircraft.
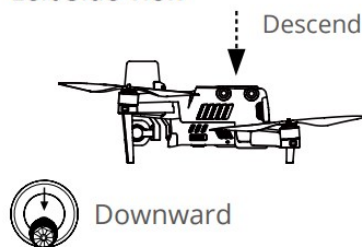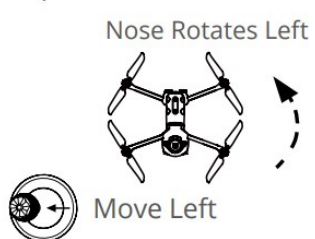
## COMMAND STICK CONTROLS(MODE 2)

## Left Command Stick

Left Side View

Ascend

Upward

Left Side View

Descend

Downward

Top View

Nose Rotates Left

Move Left

Top View

Nose Rotates Right

Move Right

## Right Command Stick

Left Side View

Forward

Upward

Left Side View

Backward

Downward

Rear View

Left

Move Left

Rear View

Right

Move Right
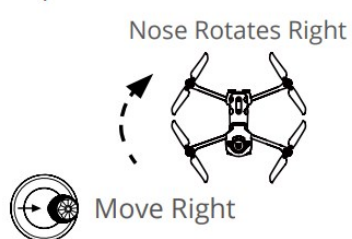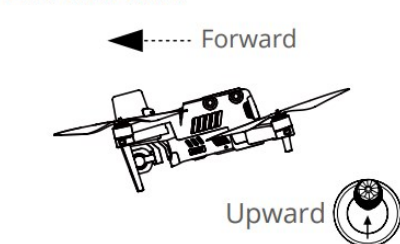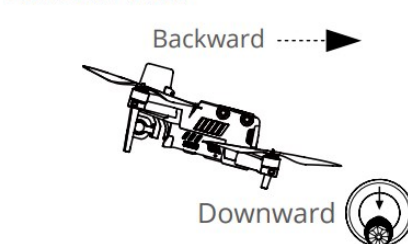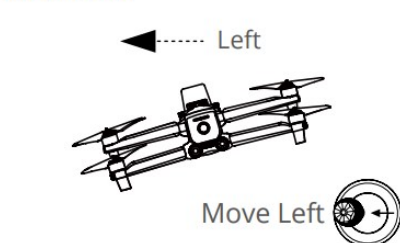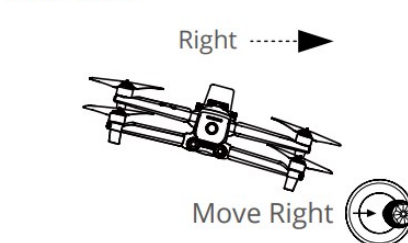
## SPECIFICATIONS

| Aircraft | |
|---|---|
| Operating Frequency | 902~928MHz (FCC);2.4~2.4835GHz;5.725~5.850GHz (Non-Japan);5.650-5.755GHz (Japan) |
| Transmission Power (EIRP) | 900MHz: FCC/ISED<=31dBm 2.4GHz: FCC/ISED<=32dBm;CE/MIC/SRRC/RCM<=20dBm 5.8GHz/5.7GHz: FCC/ISED/SRRC/MIC<=33dBm; CE/RCM<=14dBm |
| Remote Controller | |
| Operating Frequency | 902~928MHz (FCC);2.4~2.4835GHz;5.725~5.850GHz (Non-Japan);5.650-5.755GHz (Japan) |
| Transmission Power (EIRP) | FCC: ≤33dBmCE: **≤20dBm@2.4G,** ≤14dBm@5.8G/5.7G SRRC: **≤20dBm@2.4G,** ≤33dBm@5.8G/5.7G |

## FCC and ISED Canada Compliance

This device complies with part 15 of the FCC Rules and ISED Canada licence-exempt RSS standards. Operation is subject to the following two conditions:
This device may not cause harmful interference, and
This device must accept any interference received, including interference that may cause undesired operation.

**NOTE:**
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
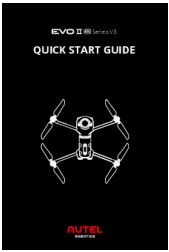
  Changes or modifications not expressly approved by the party responsible for compliance could void the user's

  authority to operate the equipment.

## Documents / Resources

**AUTEL ROBOTICS EVO II RTK V3 Series Rugged Bundle Camera Drone** [pdf] User Guide
EVO II RTK V3 Series Rugged Bundle Camera Drone, Rugged Bundle Camera Drone, Camera Drone

## References

- **Autel Robotics Enterprise Drone, Quadcopter & UAV for Sale | Leader in Drones**