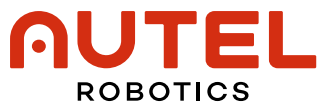
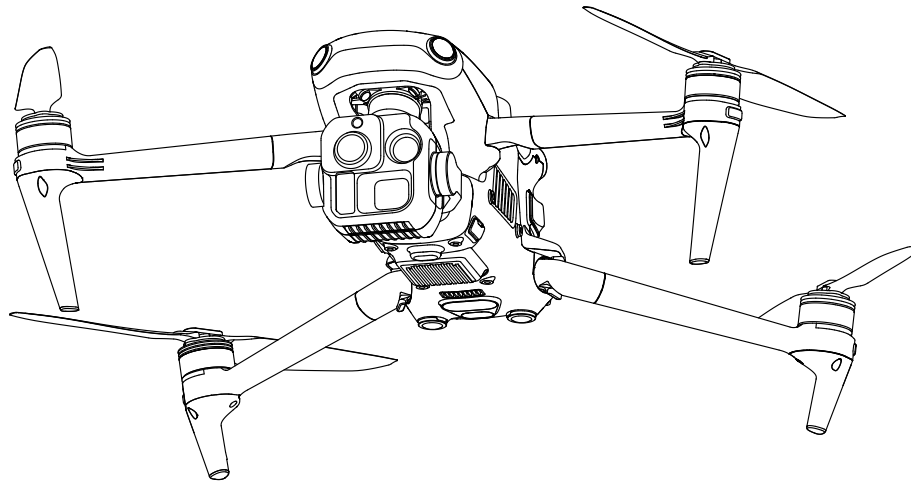


EVO III Series Multirotor Drone User Manual (Basic Combo)_v1.0.2_251120



UAS Type: MDEC2



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Release Notes

Manual Information

This manual is based on the following unmanned aircraft system (UAS) versions and will be updated as the system undergoes version iterations.

Manual Version	Updated At	UAS Version Information
v1.0.2	2025-11-20	Drone firmware version: v1.9.7.201 Remote controller firmware version: v1.9.6.16 Enterprise App version: v1.0.0.001.86

For detailed release notes of the UAS system, visit:
<https://www.autelrobotics.com> TBD

User Notice

- Once the UAS is updated, the built-in user manual on the remote controller will be updated automatically.
- **This English version of the manual is intended for use in regions where English is an official language. Information related to other regions is for reference only.** Please refer to the localized version if you are operating this product outside of these regions.
- After a UAS update, certain operations may differ from the descriptions in the manual. In such cases, please follow the actual system behavior.
- **After updating the UAS, be sure to refer to this section for detailed information on changes.** Please note that we shall not be liable for any damage or loss resulting from the use of an outdated version of the manual.

Reading Instructions

The operating temperature range for this product is –20°C to +50°C.

According to the temperature classification of electronic components, this product does not meet the environmental adaptability requirements of military-grade standards (–55°C to +125°C). Please ensure that the drone is operated only within the specified temperature range and avoid using it under extremely high- or low-temperature conditions to guarantee flight safety and equipment reliability.

Copyright Notice

The intellectual property rights of the manual are owned by **Autel Robotics Co., Ltd.** No individual or organization may copy, scan, store, distribute, reproduce, sell, transfer, modify, or otherwise use any part of this manual in any form without prior written authorization. The manual is intended solely to guide users in operating this product and must not be used for any other purpose.

Trademark Information

Autel Enterprise™, **Autel Assistant™**, **Autel III™**, and the **AUTEL ROBOTICS** logo appearing in the manual are trademarks or registered trademarks of **Autel Robotics Co., Ltd.** in China and/or other countries or regions.

Abbreviations and Acronyms

For clarity and consistency throughout the manual, the following abbreviations and acronyms are used. Their full definitions are provided below:

Abbreviation/Acronym	Definition
The manual	All content related to the use of the EVO III multirotor drone, accessible under  User Manual in the Autel Enterprise App.
This product	The EVO III multirotor drone you have purchased or are using.
You	The lawful owner or actual user of this product.
We	The manufacturer of this product, Autel Robotics , or its authorized distributors.
Drone	The EVO III multirotor Drone Model: MDE, MDE-L.
Smart battery	The lithium power battery used for the EVO III multirotor drone. For details, see the Smart Battery section in the Drone chapter.
Remote controller	The Autel Smart Controller V3 (Enhanced edition). Model: EF9-3.
Gimbal	The gimbal device mounted on the EVO III multirotor drone.
Camera	The integrated camera module on the gimbal, such as the zoom camera, wide-angle camera, infrared camera, or night vision camera.

Abbreviation/Acronym	Definition
C2 link	The command and control (C2) link of the UAS.
IMU	The inertial measurement unit installed on the drone.
Remote ID	Remote identification system of the drone. In accordance with regulations in regions such as the EU and the US, certain non-sensitive data from the UAS must be actively and continuously broadcast to nearby mobile devices during flight. This helps mitigate potential public safety risks and provides regulatory authorities with real-time information and data for effective supervision. The drone supports the remote identification function and uses Wi-Fi (Wi-Fi Beacon 802.11n) for broadcasting.
GNSS	Short for Global Navigation Satellite System.

Symbol Legend

The following symbols are used throughout the manual to highlight **important information**. Follow the associated instructions or warnings carefully.

Symbol	Description
	WARNING: Indicates a potentially hazardous situation.
	IMPORTANT: Highlights essential information that must be observed.
	TIP: Provides operational or usage advice.
	NOTE: Offers additional or reference information.

Accessing Resources

Before using this product, please make sure to thoroughly read and understand the relevant sections of the manual. We also recommend watching the tutorial videos to familiarize yourself with product usage details and ensure safe operation.

Watching Tutorial Videos

Click the link below to view tutorial videos and ensure the correct and safe operation of this product:

<https://www.autelrobotics.com/videos/evo-iii-series/>

Downloading the Manual

Click the link below to download the electronic manual in .pdf format:
<https://manuals.autelrobotics.com/?dir=/Drone/MDE/en/>

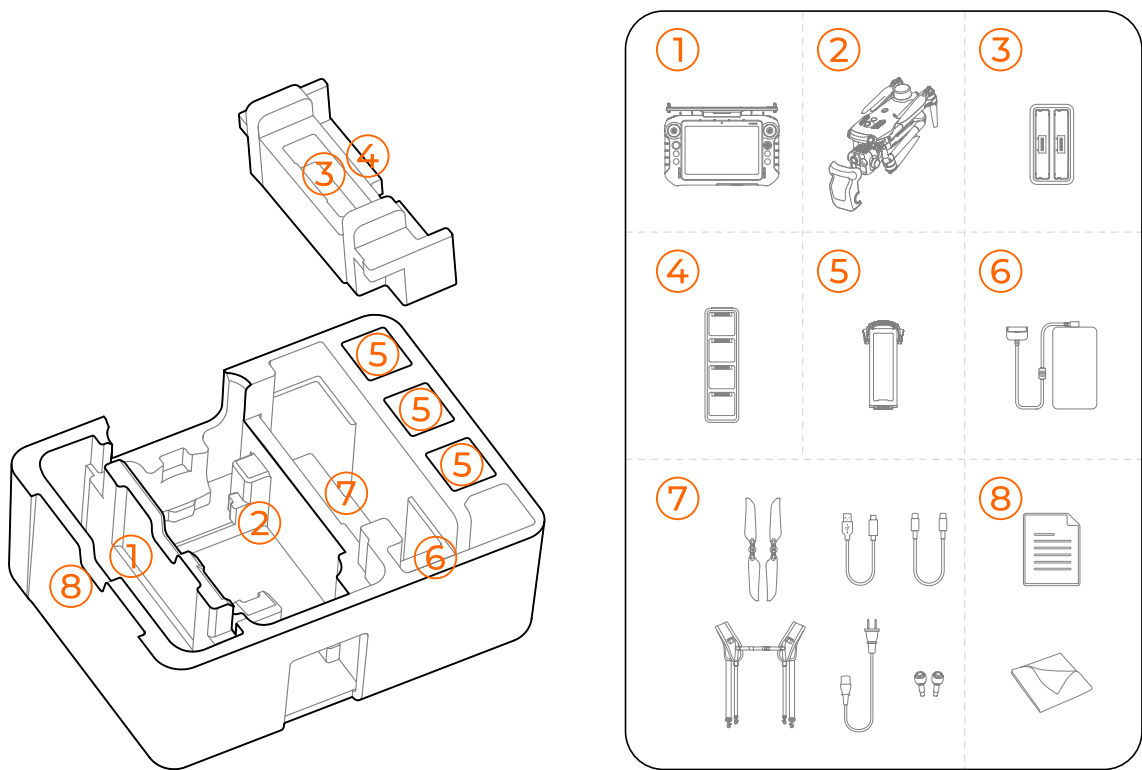
Downloading the Autel Assistant App

Click the link below to download the firmware update assistant Autel Assistant App (for Windows).

Packing List

Packing Instructions

For routine transportation and storage, always place the drone and its accessories in the hard case equipped with built-in shock-absorbing protective materials. The packing arrangement inside the case is shown below:



No.	Item	Remarks
1	Remote controller	Fold antennas and attach the remote controller cover before storage.
2	Drone	Fold arms, secure propellers, and install the gimbal cover before storage.

No.	Item	Remarks
3	Smart battery charging hub	Supports charging up to four batteries.
4	Smart battery	For storing spare smart batteries (sold separately).
5	Battery charger	/
6	Document box	For storing the clean cloth and documents such as the <i>Packing List</i> , <i>Quick Start Guide</i> , and <i>Security Guidelines</i> .
7	Standard accessories	Other included accessories besides those listed above.

WARNING:

- **Smart battery handling before shipment:** Remove the smart battery from the drone and discharge it to below 30% to comply with transportation safety regulations.

IMPORTANT:

- **Inspection upon receipt:** Upon receipt, immediately inspect the hard case and outer packaging for any signs of damage or tampering. Keep a video record of the unpacking process to facilitate claims for shipping-related damage.
- **Note for long-distance transportation:** Before long-distance transportation, place all items into the hard case according to the packing instructions provided, and avoid dropping or impacting the case.

TIP:

- **Storage tip:** For long-term storage, keep the drone and related accessories in a dry, cool environment—away from high temperatures, humidity, and direct sunlight.

NOTE:

- Smart batteries are shipped in separate packaging. After confirming receipt, place them into the battery storage slots inside the hard case.

Detailed Packing List

When unpacking for the first time, please verify that all items match the descriptions provided in the following list. If any items are missing or incorrect, contact us immediately.

No.	Item	Specifications/Model	Quantity	Remarks
1	Drone	MDE, MDE-L	1	The following items have been preinstalled on the drone: 1. Two pairs of 1152CW/1152CCW propellers 2. One gimbal (The gimbal model may vary depending on the drone model you purchase. See items numbered 2*.) 3. One gimbal cover 4. One smart battery (See item numbered 5*) 5. One 64 GB microSD card
2*	Fusion 4T Pro gimbal	MDES1	1	Gimbal for EVO III 4T Pro.
2*	Fusion 4N Pro gimbal	MDEN1	1	Gimbal for EVO III 4N Pro.
2*	Fusion 3M Pro gimbal	MDEP1	1	Gimbal for EVO III 3M Pro.
2*	Fusion 4F Pro gimbal	MDES2	1	Gimbal for EVO III 4F Pro.
3	Gimbal cover	/	1	/
4	Spare propellers	1152	2	Includes one 1152CW and one 1152CCW.
5	Smart battery	ABE40	1	Preinstalled on the drone before shipment.
6	Battery charger	CHE300S	1	/
7	AC power cord	/	1	Used with the battery charger.
8	Smart battery charging hub	CDE4	1	/
9	USB-C to USB-A data cable	/	1	/
10	Remote controller	EF9-3A	1	Includes two control sticks and two detachable antennas.

No.	Item	Specifications/Model	Quantity	Remarks
11	Remote controller cover	/	1	/
12	Remote controller lanyard	/	1	/
13	Spare sticks	/	2	/
14	USB-C to USB-C data cable	/	1	Used with the battery charger.
15	Cleaning cloth	/	1	Included in the document box.
16	User documents	/	1	Placed in the document box and including the following documents: 1. Packing List 2. Quick Start Guide 3. Security Guidelines
17	Hard case	/	1	Used to store all items listed above.



TIP:

- The packing list above applies only to the basic combo. For customized orders, please refer to your purchase list or sales contract.

Disclaimer

Before using this product, please read the manual carefully in its entirety and strictly follow all relevant safety guidelines. If you are unable to provide device data when requested, we may not be able to analyze the cause of any incident, and you may be ineligible for warranty or other after-sales services, including but not limited to repair, maintenance, and technical support. By using this product, you are deemed to have read, understood, and accepted all terms associated with it, and you agree to be fully responsible for your actions and any resulting consequences.

- Only those who have received professional operational training can operate this product. Minors are not permitted to operate this product independently. When not in use, the product must be stored securely out of reach of children and pets.

- We assume no liability for any product damage, personal injury, or property loss resulting from disregard of, or failure to follow, clearly stated warnings and risks associated with this product. In such cases, free repair or warranty services will not be provided.
- We are not responsible for any product damage, personal injury, or property loss arising from the use of incompatible components, or from unauthorized modifications or alterations made to the product in a manner inconsistent with our instructions.
- After completing a firmware update for this product, consult the latest version of the user manual in a timely manner. We assume no responsibility for any product damage, operational errors, personal injury, or property loss arising from the use of outdated versions of the user manual.
- You are solely responsible for ensuring that your use of the product does not pose any risk to your own safety or that of others, nor to any property.
- You agree to use this product only for lawful purposes and accept the above terms as well as any additional policies or guidelines we may issue.

Export Compliance Disclaimer

You are required to comply with all applicable export control laws and regulations of China, the United States, the European Union, and other relevant jurisdictions. You shall bear sole legal responsibility for any violation of such laws resulting from your use, sale, transfer, lease, or other actions related to this product.

Under no circumstances shall we be held liable for any such violations. Furthermore, you agree to indemnify and hold harmless us and our affiliates, officers, employees, distributors, and representatives from any legal liability, losses, or damages arising from your non-compliance, including but not limited to legal fees, attorney fees, travel expenses, and other related costs.

End-Use Statement

This product may be subject to export control laws of China, the United States, the European Union, or other relevant jurisdictions, and is authorized for sale, export, or domestic transfer solely for civil (non-military) end-use. You must ensure that the purchased product will not be used in any of the following circumstances. Otherwise, you will bear all resulting losses and legal consequences:

1. Any military end-use.
2. Any use related to nuclear weapons, biological or chemical weapons, or missiles capable of delivering such weapons.

- 3. Export, re-export, or transfer to any individual or entity sanctioned by the governments of China, the United States, the European Union, or any other applicable authority.
- 4. Export, re-export, or transfer to embargoed destinations, including Cuba, Iran, North Korea, Syria, the Crimea region, and Sevastopol.
- 5. Use in connection with surveillance-related equipment or systems.

If you cannot ensure that the intended use of this product complies with the aforementioned requirements, do not purchase or use it.

Getting to Know the UAS

UAS Integrity Check

Before each flight, perform an integrity check of the UAS to ensure all components meet operational requirements. A complete UAS consists of three parts: the drone, the remote controller, and the C2 link.

Drone component check

The drone must include the fuselage, gimbal, propellers, and smart battery. Missing or damaged components may result in flight failure or system malfunction.

Name	Model	Characteristics	Manufacturer	Remarks
EVO III 4T Pro	MDE, MDE-L	Maximum weight: 1665 g Maximum dimensions: 563×657×147 mm	Autel Robotics	Including propellers, the ABE40 smart battery, and the Fusion 4T Pro gimbal.
EVO III 4N Pro	MDE, MDE-L	Maximum weight: 1700 g Maximum dimensions: 563×657×147 mm	Autel Robotics	Including propellers, the ABE40 smart battery, and the Fusion 4N Pro gimbal.
EVO III 3M Pro	MDE, MDE-L	Maximum weight: 1725 g Maximum dimensions: 563×657×147 mm	Autel Robotics	Including propellers, the ABE40 smart battery, and the Fusion 3M Pro gimbal.

Name	Model	Characteristics	Manufacturer	Remarks
EVO III 4F Pro	MDE, MDE-L	Maximum weight: 1725 g Maximum dimensions: 563×657×147 mm	Autel Robotics	Including propellers, the ABE40 smart battery, and the Fusion 4F Pro gimbal.
Smart battery	ABE40	Rated energy: 124.4 Wh Maximum weight: 460 ± 5 g Maximum dimensions: 157×71×47 mm	Autel Robotics	Standard component or sold separately
1152 propellers	1152CW and 1152CCW	Maximum weight: 10 g Dimensions: 11" Propeller pitch: 5.2"	Autel Robotics	Standard component or sold separately

Remote controller component check

A complete remote controller should include the remote controller body (with a properly functioning touchscreen and buttons), control sticks, and antennas. The absence or damage of any component may result in the malfunction of the corresponding remote controller features.

The built-in Autel Enterprise App, as the sole human-machine interface for drone flight control, must be kept intact to prevent potential loss of drone control.

Name	Model	Characteristics	Manufacturer	Remarks
Autel Smart Controller V3 (Enhanced)	EF9-3A	Maximum weight: 1195 g (excluding the controller cover) Maximum dimensions: 269×302×87 mm	Autel Robotics	Including two control sticks and two detachable antennas.

C2 link inspection

After powering on both the drone and the remote controller, ensure that they are successfully linked. When the C2 link is functioning properly, you can view the live feed from the drone's gimbal camera and the real-time status of the drone in the Autel Enterprise App on the remote controller, and the drone can be operated via the remote controller.

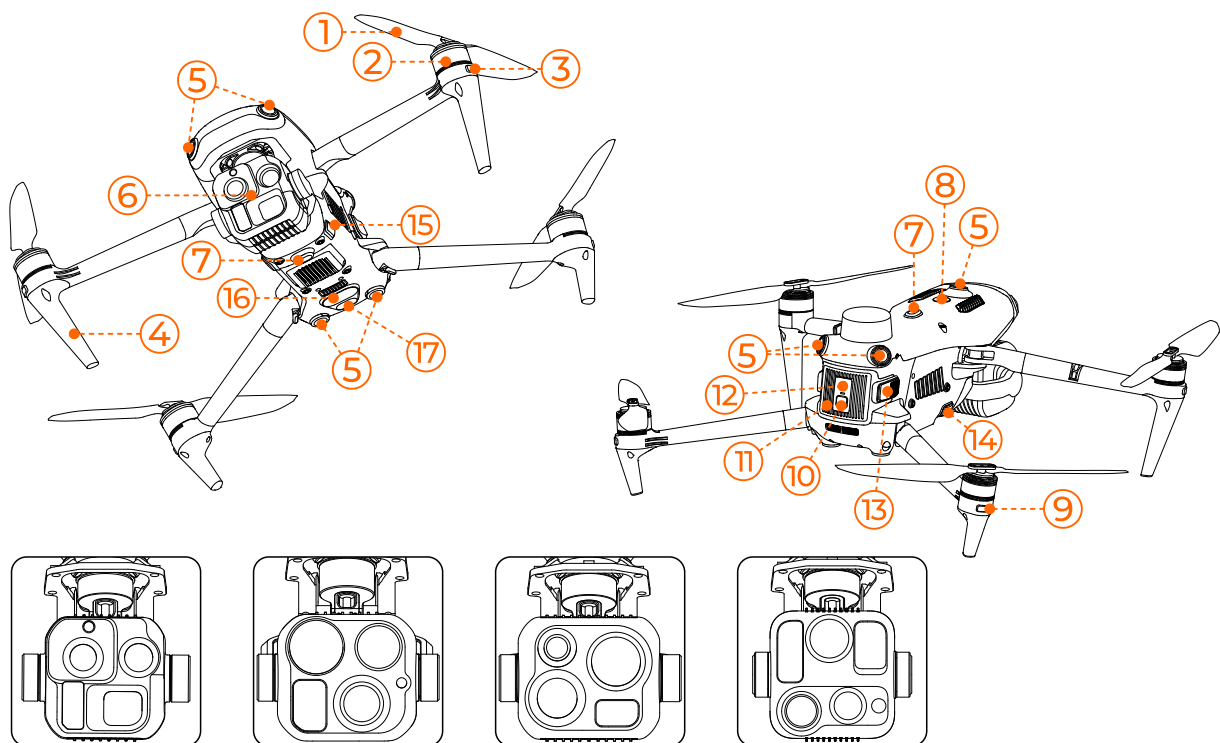
i IMPORTANT:

- To ensure proper linking between the remote controller and the drone, both devices should be updated to the corresponding firmware versions as specified in the **Manual Information** section in the **Release Notes** chapter of this manual.

🔔 TIP:

- During daily use, when a new firmware version is available, it is recommended that you update promptly to fix known issues, improve system stability, and experience newly added functions. You may also postpone the update; this will not affect existing core functionality.

Drone Components



Fusion 4T Pro Fusion 4N Pro Fusion 3M Pro Fusion 4F Pro

No.	Component	Description
1	Propellers	/
2	Motors	/
3	Navigation indicators	Front arm lights: Used to identify drone orientation during flight.
4	Landing gear	Contains antennas.
5	Omnidirectional visual sensing system	/

No.	Component	Description
6	Integrated gimbal camera	/
7	Expansion port	P-Port port for payload attachment.
8	Strobe	/
9	Status indicators	Rear arm lights: Indicate the operating status of the drone.
10	Power button	Power-on/off: Press and hold for 3 seconds. Single link: Double-press quickly. A-Mesh link: Press and then hold.
11	Smart battery	/
12	Battery indicators	Displays the battery level, and may also indicate the drone status in certain scenarios.
13	Battery buckles	/
14	USB-C port	P-Port Lite port for payload attachment.
15	microSD card slot	/
16	Aux light	/
17	Time-of-flight (ToF) sensor	Enhances the ground sensing capability for drone landing.

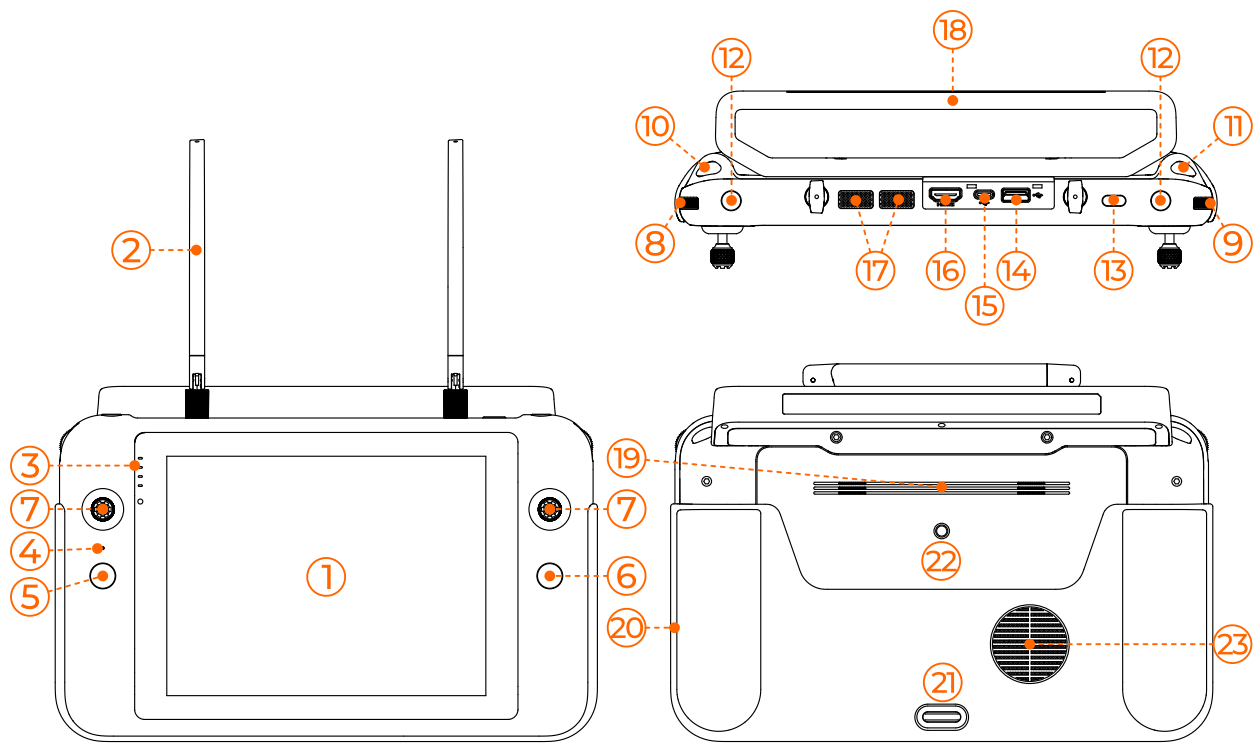
WARNING:

- The expansion port and the USB-C port cannot be used for charging. Do not connect them to the charger's output; otherwise, device damage or security hazards may occur.

NOTE:

- An integrated multi-network IoT card is embedded in the drone. After powering on the drone, even if you do not insert a self-provided Nano-SIM card, the drone can still connect to cellular networks normally within the validity period of the IoT card data plan.

Remote Controller Components



No.	Component	Description
1	Touchscreen	/
2	External antennas	/
3	Battery indicators	Displays the remote controller's battery level; may also indicate the remote controller status in certain scenarios.
4	Microphone	/
5	Takeoff/Return-to-home (RTH) button	When the drone is powered on and stationary on the ground, press and hold this button for 2s until you hear the beep. A pop-up window appears, prompting you to confirm the operation. Upon confirmation, the drone will take off and hover at 1.2 meters above ground. During flight in GNSS mode, press and hold this button for 2s until you hear the beep to trigger an RTH maneuver.
6	Pause button	During an automated flight mission, press this button until you hear the beep to pause the mission and hover the drone in place. Press this button again to resume the mission. Press and hold this button for 2s until you hear the beep to exit the current automated mission.
7	Control sticks	Manually control the movement of the drone.
8	Gimbal tilt control dial	/
9	Camera zoom control dial	/

No.	Component	Description
10	Record button	Press once to start recording; press again to stop recording.
11	Photo button	/
12	Custom buttons (C1/C2)	To specify the functions of these buttons, choose  >  RC > RC Custom Button in the Enterprise App.
13	Power button	When the remote controller is powered off, press and hold this button for 1s to display its battery level, and press and hold this button for 3s until you hear the beep to power on the remote controller. When the remote controller is powered on, you can press this button to turn off or turn on the touchscreen, or press and hold this button for 6s to forcibly shut down the remote controller.
14	USB-A port	Used to connect a third-party peripheral such as a USB drive or a USB card reader.
15	USB-C port	Used for charging.
16	HDMI port	/
17	Air outlet	/
18	Handle (integrated with antennas)	/
19	Speaker	/
20	Remote controller cover	/
21	Lanyard eyelet	/
22	1/4" screw hole	/
23	Air inlet	/

Flight Safety

Before flying outdoors, make sure to conduct basic flight training (e.g., watching tutorial videos, receiving guidance from professionals) to familiarize yourself with the functions and features of the drone and remote controller.

Before flight, select a suitable environment based on relevant flight requirements and restrictions, and set a reasonable altitude to ensure legal operation. Operating the drone in unsuitable environments may pose legal risks.

Flight Guidelines

WARNING:

- Do not fly near manned aircraft. Ensure your drone does not interfere with crewed aircraft along flight routes. Always stay alert and avoid other aircraft. Land immediately if necessary.
- Do not fly in areas prohibited by law without proper authorization. Restricted zones may include: airports, borders, major cities and populated areas, large events, emergency sites (e.g., forest fires), and sensitive infrastructure (e.g., nuclear power plants, power stations, substations, prisons, transportation hubs, government buildings, and military facilities).
- Do not fly above the legal altitude limit of your location.
- Do not use the drone to carry any illegal or hazardous materials.
- Do not use this product for any unlawful or inappropriate activities (including but not limited to espionage, military operations, or unauthorized investigations).
- Do not use this product to infringe upon others' property or privacy rights.

IMPORTANT:

- Understand the category of your flight operation (e.g., recreational, public, or commercial). Obtain any necessary permits from relevant authorities before flying. Consult local legal experts if needed, especially since commercial drone use may be prohibited in certain regions or countries.
- Respect others' privacy when using the drone for aerial photography. Unauthorized surveillance—whether of individuals, groups, events, shows, or buildings—is prohibited.
- In some regions, filming or photographing people or events—even for non-commercial purposes—may still violate copyright, privacy, or other rights. Please comply with local laws and regulations before use.

Flight Restrictions

We provide various technical measures designed to assist you in flying safely. However, we make no guarantees or assurances that these measures will ensure full compliance with all applicable laws, regulations, or temporary flight restrictions in your area.

By using this product, you acknowledge and agree that you are solely responsible for all flight activities and assume all associated legal liability.

Geofencing System

The drone is equipped with a built-in geofencing system, which—when connected to the internet—can automatically update global flight restriction zones in accordance with the latest aviation regulations. In different types of restricted airspace, the drone's flight capabilities will be limited to varying degrees.

The geofencing system supports No-Fly Zone unlocking in specific countries. If you need to fly in restricted or controlled airspace, you may contact us to request a temporary unlock after obtaining official airspace authorization from your local civil aviation authority. The unlock will remain valid for the duration specified in the authorization.

WARNING:

- Due to potential delays in data acquisition, the airspace restriction information provided by the geofencing system may not reflect the most up-to-date local regulatory requirements in real time or in full. This system is intended solely as a supplementary reference tool and does not relieve you of your responsibility to independently verify regulatory compliance. We strongly recommend that, prior to every flight, you proactively consult official sources—such as your local civil aviation authority, air traffic control agency, or government notices—to confirm the latest regulations, temporary flight restrictions, and applicable airspace requirements for your intended flight area.
- Due to region-specific regulatory constraints, certain no-fly zones may not be displayed in the Enterprise App. Therefore, you must always rely on official airspace restriction data and notices issued by your local aviation authority as the definitive source, and never base flight decisions solely on the information shown in the Enterprise App.
- Even if your drone supports a geofencing unlock feature, you remain fully responsible for ensuring that your entire flight operation complies strictly with all applicable local laws and regulations. Unauthorized flights may not only result in legal liability but could also lead to restrictions on your device's functionality. You assume full responsibility for all flight activities and their consequences.

IMPORTANT:

- In countries or regions where the default no-fly zone restriction policy is not enabled (e.g., certain areas within the European Union), you may obtain the official geofencing data file issued by local authorities and import it into the drone's flight control system via the Enterprise App. To do so, choose  >  **Map Display > Import Geofence**. After the geofencing data is imported, the drone will automatically trigger safety response mechanisms—such as audible alerts or speed reduction—when approaching restricted airspace, helping you avoid potential risks.

- Before each flight, ensure that your remote controller maintains a stable internet connection so that the latest airspace restriction data can be automatically downloaded and synchronized to the drone. During flight, relevant geofencing information will be displayed in real time within the Enterprise App to support safe and compliant operations.
- We strongly recommend downloading and installing the latest firmware version via either the Enterprise App or Autel Assistant App to ensure full functionality of the flight restriction features.

 NOTE:

- Due to regulatory requirements in certain countries or regions, the activation policy for no-fly zones within the geofencing system may vary. Please refer to the actual information displayed in the Enterprise App for details.

Restricted Zones

Restricted zones refer to dynamically defined zones within the geofencing system where certain drone flight functions are limited. Based on the level and type of restriction, these zones are categorized into **No-Fly Zones**, **Authorization Zones**, **Warning Zones**, and **Custom Geofences**.

When the remote controller is powered on and connected to the internet, you can view the distribution of restricted zones on the map page in the **Autel Enterprise App**, enabling you to plan compliant and safe flight routes in advance.

Restriction Type	Description
No-Fly Zone	Includes Statutory No-Fly Zones and Custom No-Fly Zones , both displayed as red areas on the map page in the Enterprise App. The drone is prohibited from taking off or flying within these zones, and entry from outside into such areas is also strictly blocked to ensure full compliance with airspace control requirements.
Authorization Zone	Once official airspace authorization has been obtained from the relevant civil aviation authority and the drone has been unlocked accordingly, the zone will be reclassified as an Authorization Zone , displayed as a blue area on the map page in the Enterprise App. After successful unlocking, the drone may operate within this authorization zone in accordance with the conditions and scope specified in the official approval document. Ensure your flight activities strictly adhere to the authorized scope and local regulations; otherwise, the operation may still be deemed non-compliant.
Warning Zone	Displayed as a yellow area on the map page in the Enterprise App. When flying in these zones, the drone will trigger warning alerts to notify you of potential risks or regulatory considerations, but flight

Restriction Type	Description
	operations will not be forcibly restricted. We recommend carefully evaluating environmental safety and legal requirements before deciding whether to proceed.
Custom Geofence	Displayed on the map page in the Enterprise App as a green area surrounded by an orange ring-shaped buffer zone . The drone is permitted to fly only within this designated area and must not exit beyond its boundaries.



Note:

- Both **Custom No-Fly Zone** and **Custom Geofence** are defined in the Enterprise App. To do so, choose  **Mission** > **Create**. These custom zones can be configured as **Permanent** or **Temporary**. When a zone is set to be temporary, the restrictions will automatically expire once the specified time period ends.



WARNING:

- Observe altitude restrictions:** Before flying, always check local altitude restrictions and ensure operations are conducted within legal airspace.
- Avoid flying too close to controlled or restricted airspace (e.g., No-Fly Zones):** If the drone loses GNSS signal or encounters weak signal conditions, it will switch to **Visual Positioning Mode** or **Attitude Mode**. In these modes, the geofencing system will no longer function, and the drone may unintentionally enter restricted airspace, posing a serious flight safety risk.

Buffer Zones

When flying, a drone maintains a certain initial velocity. To prevent it from unintentionally entering restricted airspace due to inertia or delayed control response, the geofencing system implements buffer zones along the boundaries of relevant zones.

- Buffer zones** are established outside the boundaries of **No-Fly Zones** and **Warning Zones** to trigger early deceleration or warning alerts, helping avoid accidental incursions.
- Buffer zones are established inside the boundaries of **Authorization Zones** (when adjacent to No-Fly Zones) and **Custom Geofences** to prevent the drone from overshooting the permitted flight area due to momentum.

This buffer mechanism enhances flight safety and reduces the risk of boundary violations caused by control latency or environmental interference. However, you must still proactively plan flight routes, maintain safe distances from restricted areas, and ensure full compliance with applicable regulations.

Buffer Zone Type	Description
Statutory No-Fly Zone Buffer	When approaching from outside: Upon reaching the warning trigger distance, the Autel Enterprise App will display a warning message, indicating that the drone is close to the No-Fly Zone. The drone will automatically decelerate and eventually come to a complete stop and hover within the buffer zone. When on the ground within the buffer zone: The drone is allowed to take off and land vertically or fly horizontally in a direction away from the No-Fly Zone.
Custom No-Fly Zone Buffer	When approaching from outside: Upon reaching the warning trigger distance, the Autel Enterprise App will display a warning message, indicating that the drone is close to the No-Fly Zone. The drone will automatically decelerate and eventually come to a complete stop and hover within the buffer zone. When on the ground within the buffer zone: Takeoff is not allowed.
Authorization Zone Buffer	When exiting the Authorization Zone: If the adjacent zone is a No-Fly Zone, upon reaching the warning trigger distance, the Autel Enterprise App will display a warning message, indicating that the drone is close to the No-Fly Zone. The drone will automatically decelerate and eventually come to a complete stop and hover within the buffer zone. When on the ground within the buffer zone: The drone is allowed to take off and land vertically or fly horizontally in a direction away from the No-Fly Zone.
Warning Zone Buffer	When approaching from outside: Upon reaching the warning trigger distance, the Autel Enterprise App will display a warning message, indicating that the drone is close to the Warning Zone. The drone's flight is not restricted, but cautious operation is advised.
Custom Geofence Buffer	When exiting the geofence: Upon reaching the warning trigger distance, the Autel Enterprise App will display a warning message, indicating that the drone is near the boundaries of the geofence and prompting you to leave immediately. The drone will automatically decelerate and eventually come to a complete stop and hover within the buffer zone. When on the ground within the buffer zone: Takeoff is not allowed.

WARNING:

- **Safety mechanism upon GNSS signal loss:** If the drone has not been unlocked but inadvertently enters a no-fly zone while the GNSS signal is lost, the system will automatically initiate a forced landing as soon as the GNSS signal is

reacquired. During this process, the throttle stick will be disabled. You will only be able to control the drone's horizontal movement to avoid obstacles and ensure a safe landing.

 IMPORTANT:

- When the drone is hovering within the buffer zone of a no-fly zone, you can safely maneuver it out of the buffer zone by flying it along the normal direction perpendicular to the no-fly zone boundaries—i.e., directly away from the no-fly zone.

 TIP:

- **Default buffer zone scope:** By default, a buffer zone extends 50 meters horizontally and 20 meters vertically from the boundary of any restricted airspace. For **Custom No-Fly Zones** and **Custom Geofences**, you can configure larger buffer zones based on operational needs to increase flight safety margins.

 NOTE:

- **Proximity warning trigger distance:** The system will issue a proximity warning when the drone approaches within 200 meters horizontally and 50 meters vertically of the boundary of the following zones: outside no-fly zones, inside authorization zones (when adjacent to no-fly zones), outside warning zones, and inside custom geofences. This warning notifies you of nearby restricted airspace.

Flight Unlocking

For countries or regions where No-Fly Zone restrictions are enforced, you must apply in advance to unlock drone flight permissions within designated airspace. The following information is required for the application:

- Applicant's full name, phone number, and email address
- Authorization letter: A scanned or photographed approval document issued by the local aviation authority (e.g., police department, civil aviation agency)
- A cylindrical airspace to be unlocked:
 1. Center coordinates (latitude/longitude) of the airspace on the ground, accurate to six decimal places
 2. Flight radius (in meters)
 3. Flight altitude (in meters)
 4. Unlocking date and time
- Serial numbers of the drone(s) to be unlocked: Multiple serial numbers can be submitted at once.

- Associated Autel account(s): Multiple accounts can be submitted at once.

To submit an unlocking request, visit:

<https://www.autelrobotics.com/service/noflight/>

i IMPORTANT:

- Prepare your flight application documents in accordance with the specific requirements of the relevant organization or authority. The documents must include the organization's official letterhead and bear either an authorized signatory's signature or the organization's official seal.

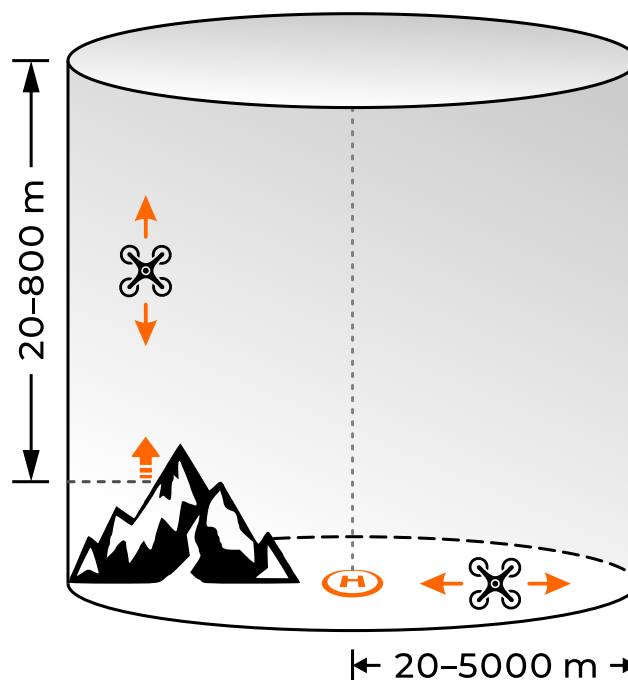
📌 NOTE:

- After submission, your application will be reviewed within 24 hours, and the geofencing restriction will be lifted within 48 hours. In case of an emergency, please call our service hotline 400-800-1866 immediately after submitting your application.

Altitude and Distance Limits

Altitude Limit: Restricts the maximum altitude the drone can reach relative to its takeoff point.

Distance Limit: Restricts the drone's maximum flight radius from the home point.



Unless a special application is made, when flying in the EU region, maintain the flight altitude below 120 meters; when flying in North America, maintain the flight altitude below 400 feet. During flight, the drone should stay away from any tall buildings.

WARNING:

- The legal flight altitude limits vary by country/region. Please contact the local aviation authority to learn about the actual altitude restrictions.
- When flying within permitted airspace, the drone's maximum flight altitude is restricted by the system's default altitude limit in the Enterprise App. This default limit is automatically set based on the legal maximum flight altitude for the country or region where the drone is currently located. If you need to operate above this legal altitude limit, you may manually adjust the altitude restriction by signing the *User Agreement for Altitude Limit Adjustment*. Please note: Once you sign this agreement and raise the altitude limit, you will assume full responsibility for all associated flight risks and consequences.

IMPORTANT:

- To configure the altitude and distance limits in the Enterprise App, choose  >  **Flight**:
 - When setting the altitude limit, ensure the RTH altitude is higher than the tallest obstacle along the flight route.
 - When setting distance limits, take into account the battery level and environmental factors that may affect flight endurance.

TIP:

- You can set **Home Point Settings** to **Aircraft** or **RC**. By default, if you do not specify the home point, the takeoff point is used as the home point. We recommend that you select a proper home point to ensure a safe landing.

Flight Requirements

WARNING:

- Do not fly in adverse weather conditions such as strong winds, rain, snow, fog, sandstorms, extreme cold, or high heat. The maximum wind speed resistance supported by the drone during the cruise phase is 12 m/s.
- Do not fly outside the specified temperature range or at altitudes exceeding 6000 meters. Operating outside the stated temperature or altitude limits will degrade the drone's flight performance or even lead to loss of control.
- Do not take off from or land on a moving platform such as a vehicle in motion or a vessel underway.
- Do not fly in environments with poor GNSS signal (e.g., indoors or near heavily obstructed buildings) and poor visual positioning conditions (e.g., low light, high altitude).

from the ground, low-texture surfaces like water or snow).

- Stay away from drone interference devices and maintain a safe distance of at least 2,000 meters. If it is unavoidable to approach an interference source, ensure that the interfering device and the drone are not operating simultaneously to avoid compromising flight safety.

IMPORTANT:

- Always operate the drone in open, clear areas away from people and animals, and fly within the visual line of sight whenever possible. Tall terrain, rocks, buildings, and forests may block GNSS or video transmission signals.
- Avoid taking off from or landing on surfaces with dust or sand (e.g., dirt roads, beaches, deserts) to prevent damage to flight performance or motor life.
- Turn off unnecessary nearby Wi-Fi and Bluetooth devices to reduce interference with video transmission.
- Exercise caution when flying near sources of electromagnetic interference. Continuously monitor the remote controller's real-time video feed for signal lag or weak signal strength. If prompted by the Autel Enterprise App, return and land promptly. Common interference sources include high-voltage power lines and substations, radar stations, cell towers, and broadcast towers. Maintain at least 200 meters from these sources to avoid potential drone damage or crash.

Operation Check

Pre-Flight Checklist

- ☐ Ensure that the RC and the drone have sufficient battery, and that the smart battery is securely installed and properly locked.
- ☐ Verify that all propellers are mounted and tightened, free of damage or deformation, and that motors and propellers are clean and unobstructed. Ensure all arms and propellers are fully extended.
- ☐ Make sure the visual sensing lenses, gimbal camera lenses, strobe, and aux light are clean and unobstructed by any payloads or accessories.
- ☐ Remove the gimbal cover and check that all three axes of the gimbal move freely.
- ☐ Ensure a microSD card is inserted, and that the microSD slot and ports (if not in use) are sealed with rubber protective covers to maintain protection.
- ☐ Check the drone for foreign objects (e.g., water, oil, sand, dirt), and ensure that the ventilation openings and motor cooling vents are unobstructed.
- ☐ Confirm that the control sticks and RC antennas are properly installed and that the RC antennas are extended to the optimal orientation.

- ☐ After powering on, verify that the drone is connected to the RC, that the motors and gimbal function normally, and that all warning messages shown in the Autel Enterprise App have been addressed.
- ☐ Make sure the drone, RC, and Autel Enterprise App are all updated to the latest firmware versions.
- ☐ Ensure the drone is within a legal flight area, and that the flight site is suitable (e.g., away from birds, balloons, kites, or fishing areas). Place the drone in an open, flat outdoor area. For A-Mesh Link scenarios, maintain at least 5 meters of horizontal ground spacing between drones. Ensure that the surrounding area is free of buildings, trees, and other obstacles. Pilots should stand at least 10 meters behind the drones.
- ☐ Check all related parameters in the Autel Enterprise App to ensure the flight control settings, obstacle avoidance system, and stick mode are appropriately configured for a safe mission.
- ☐ If multiple drones are flying in the same airspace, maintain safe aerial spacing to prevent collisions or accidents.

Post-Flight Checklist

- ☐ After flight, land the drone on a wide, flat, and firm surface. Avoid landing on sand, wetlands, sloped surfaces, or moving platforms.
- ☐ The landing point must be away from areas with people or animals. During landing, the pilot should keep at least 5 meters of horizontal distance from the landing point.
- ☐ After landing, power off the drone's motors before approaching it. Power off the drone before conducting any visual inspection.
- ☐ During the inspection, check the visual sensing lenses, gimbal camera lenses, strobe, and aux light for any dirt or debris. If needed, gently clean with a soft, dry cloth.
- ☐ Inspect the drone's exterior and motors for damage, cracks, looseness, or blockage. If any issues are found, stop using the drone and contact us.
- ☐ Check the propellers for damage, looseness, or deformation. Replace them immediately if necessary.
- ☐ After removing the smart battery from the drone, inspect the battery's port and exterior. If there is any structural or port damage, swelling, or leakage, stop using it and properly dispose of it as instructed in this manual.
- ☐ After completing all checks, reinstall the gimbal cover, fold the drone arms as required, and store the drone and the smart battery in the hard case.
- ☐ Clean the remote controller surface and fold the antennas properly before storing the remote controller in the hard case.

Safety Operation Instructions

 WARNING:

- Do not operate the drone under the influence of alcohol, drugs, medication, dizziness, fatigue, or nausea, or in any other physically or mentally impaired state.
- Do not approach the drone when its propellers are spinning. High-speed rotating propellers and motors may cause serious personal injury.
- Do not use the drone if it has been involved in an accident (such as a crash or tip-over) or if abnormal flight behavior is observed, unless it has been serviced by our authorized support.
- When updating the firmware, calibrating devices, or setting parameters, always keep the drone away from people and animals.
- Do not look directly into the camera lens while it is in operation, as the emitted laser may cause eye injury.
- When flying at night, be sure to turn on the navigation lights, but avoid staring directly at the light source, as the high-frequency, intense flashing may cause eye discomfort or damage.
- Do not point the infrared camera (IR camera) at high-energy sources such as the sun, lava, laser beams, or molten metal. Doing so may permanently damage the thermal detector.
- Always maintain full control of the drone. Information provided by the obstacle avoidance system and the Autel Enterprise App is for reference only. Some safety functions may be unavailable or non-functional in specific modes or environments. Visually assess the flight conditions, avoid obstacles manually, and set flight and RTH altitudes accordingly.
- Do not enable visual positioning during flight if it was disabled prior to takeoff. To avoid malfunction, land the drone before reactivating this function.
- During flight, follow all safety instructions in the Autel Enterprise App (e.g., low battery, compass calibration). Return and land promptly—never force the drone to continue flying.
- The automatic RTH function is available only in GNSS mode. Set appropriate obstacle avoidance behavior in advance; disabling obstacle avoidance may lead to accidents.
- If the drone hovers automatically due to obstacles during RTH, take manual control using the RC to ensure safe flight.
- When landing in low-light conditions, turn on the aux light to enhance environmental awareness and ensure flight safety.
- After landing, confirm the motors have fully stopped before powering off the drone and the remote controller. Avoid touching the motor surface to prevent burns.
- Use only original accessories or certified third-party accessories. Using unauthorized parts may compromise flight safety.

- Before flying with mounted payloads, ensure they are properly and securely installed to prevent shaking or detachment in flight. Ensure the total weight remains within the stated max takeoff weight, and that the payload's center of gravity is near the drone's center of gravity, without blocking the visual sensing lenses or sensors.
- Do not modify the drone or any of its components without authorization. Unauthorized modifications can impair flight performance, compromise built-in safety mechanisms, potentially lead to serious accidents, and automatically void your warranty.
- If the drone becomes wet or is submerged in water, do not power it on immediately, as this may cause permanent damage. Instead, disconnect the power source right away and contact an authorized service center for professional inspection and repair.

 IMPORTANT:

- The original accessories mentioned in the manual—including but not limited to the propellers, smart battery, and gimbal—are intended for use with this series of drone only. Do not use them for other purposes. If you use the accessories with products other than those recommended and cause damage to such accessories or products, you will be solely responsible for the consequences.
- If you intend to use third-party devices or payloads with this series of drones, carefully read the third-party user manuals and safety guidelines. Even if a third-party payload is physically or electrically compatible with this drone, we make no express or implied warranties regarding its safety, suitability, or reliability. Any personal injury or property damage resulting from the use of third-party payloads is solely your responsibility.
- All payloads must have an ingress protection (IP) rating no lower than that of the drone itself, and their mounting ports must incorporate effective waterproofing measures. If water ingress into the drone occurs due to payload waterproofing failure, flight safety will be severely compromised, and any resulting consequences shall be borne solely by you.

Smart Battery Safety Guidelines

 WARNING:

- Do not disassemble, puncture, strike, crush, or incinerate the smart battery in any way. Such actions may cause an internal short circuit, leading to fire or explosion.
- Always use only original or officially certified smart batteries and chargers. When replacement is needed, purchase through authorized channels. We assume no liability for battery incidents, flight anomalies, or equipment damage caused by non-original or uncertified third-party batteries or chargers.
- Charge the smart battery away from flammable or explosive materials. Once charging is complete, promptly disconnect it from the power source to avoid prolonged connection to the charger.

- Do not use a smart battery that shows signs of swelling, leakage, casing damage, deformation, or has suffered physical impact (e.g., drops or collisions). Do not attempt to charge such a battery or install it on the drone.
- Use the smart battery only within the recommended temperature range. Excessively high temperatures may cause fire or explosion; excessively low temperatures will significantly reduce output performance and compromise flight stability.
- Do not fly in thunderstorms or in environments with strong static electricity or intense magnetic fields. These conditions may cause abnormal battery output or sudden power loss, resulting in severe flight failures.
- The smart battery must never come into contact with liquids. Do not use it in rain or humid conditions. Liquid ingress may cause spontaneous combustion or explosion. If the battery accidentally contacts liquid, immediately remove it and place it in a dry, open area away from flammable materials. Do not use it again—contact our after-sales service center for technical support.
- The electrolyte inside the smart battery is corrosive. In case of leakage, immediately move away and avoid contact. If the electrolyte contacts your skin or eyes, rinse thoroughly with plenty of water and seek medical attention without delay.
- Store the smart battery securely out of reach of children and pets. If a child swallows a battery or any of its components, seek emergency medical care immediately.
- Do not expose the smart battery to direct sunlight, high-temperature environments, open flames, or heating devices.
- Do not place the smart battery directly on conductive surfaces, and never allow the positive and negative terminals to short-circuit.
- Never put the smart battery in a microwave oven, pressure cooker, or any other sealed heating appliance.
- Do not stack any objects on top of the smart battery, as compression may cause physical damage or trigger thermal runaway.
- Do not leave a fully depleted smart battery unused for extended periods, as this may lead to over-discharge and irreversible cell damage. If the drone will not be used for a long time, remove the battery and store it separately. Perform a maintenance charge every three months.
- When storing or transporting the smart battery, do not mix it with sharp objects or metal items (e.g., keys, coins), as this may cause short circuits or physical damage.
- Do not transport a smart battery with visible external damage. Before transportation, discharge the battery to 30% or lower.

** IMPORTANT:**

- After flight, the smart battery is typically at a high temperature. It is recommended to allow it to cool down to room temperature before charging. Otherwise, the charging protection mechanism may activate, preventing charging. The battery charging

temperature range is +5°C to +45°C. Charging within the ideal temperature range (+22°C to +28°C) can significantly extend the battery's lifespan.

- If the smart battery remains idle for over 12 hours with a charge level below 8%, it will automatically enter ultra-low power mode. To reactivate the battery, charge it; once fully charged, promptly disconnect it from the power source.
- Regularly check the remaining charge and cumulative discharge cycles of the smart battery, and follow the prompts in the Enterprise App to replace the battery as needed. If the discharge cycle count exceeds 200 or if abnormal conditions persist after two consecutive standard charge/discharge cycles, immediately discontinue use and replace the battery to avoid impacting flight safety or causing equipment damage.
- Regularly inspect and clean the drone's battery compartment, the smart battery itself, and its connectors to ensure they are free from dust, debris, or corrosion. Do not use alcohol or other flammable solvents to clean the battery.
- Before replacing the smart battery, ensure that the battery surface, battery compartment, and connectors are dry, clean, and free of any foreign objects. Then securely insert the battery into the drone.
- In the event of a fire involving the smart battery, immediately use dry sand, dry powder extinguishers, or other solid-based fire suppression materials to extinguish the fire. Do not use water or foam extinguishers.
- Do not store the smart battery in environments exceeding 50°C. Ideal storage conditions are as follows: maintaining approximately 60% charge, storing in temperatures from +22°C to +28°C, and keeping relative humidity at around 65% ± 20% RH.
- When transporting smart batteries by air, strictly adhere to the relevant regulations concerning lithium battery transport in the departure location, transit points, and destination. Follow the required procedures for either checked luggage or carry-on.
- For damaged or leaking smart batteries, it is recommended to fully submerge them in an insulating container filled with a 5% saltwater solution for more than 48 hours to ensure complete discharge before proceeding with further disposal.
- For normally decommissioned smart batteries, confirm they are fully discharged and then dispose of them according to local environmental laws governing lithium battery waste. Hand them over to qualified recycling facilities for professional processing. Never dispose of them casually to prevent environmental pollution.

First-Time Use

Before your first flight, please watch the tutorial videos at the link below to ensure proper and safe operation of this product:

<https://www.autelrobotics.com/videos/evo-iii-series/>

⚠ WARNING:

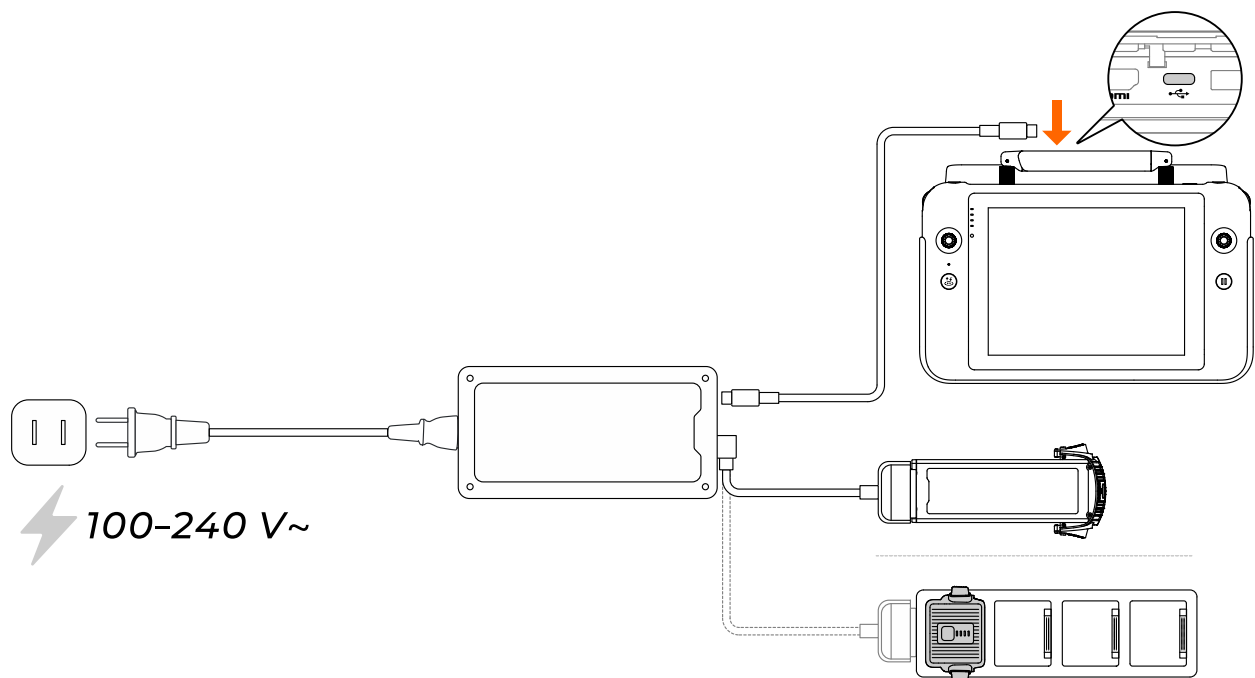
- This product is classified as a light unmanned aerial vehicle (UAV). Individuals under the age of 18 are prohibited from operating it independently.
- When using this product for commercial flight operations, liability insurance must be obtained in accordance with applicable laws and regulations.

i IMPORTANT:

- Before flying, check local airspace restrictions to ensure you are operating within permitted airspace.

Charging

Before use, fully charge the smart battery and the remote controller using the provided charger.



⚠ WARNING:

- Do not use the drone's expansion port (P-Port) or USB-C port (P-Port Lite) for charging. Never connect the charger while the smart battery is inserted in the drone.

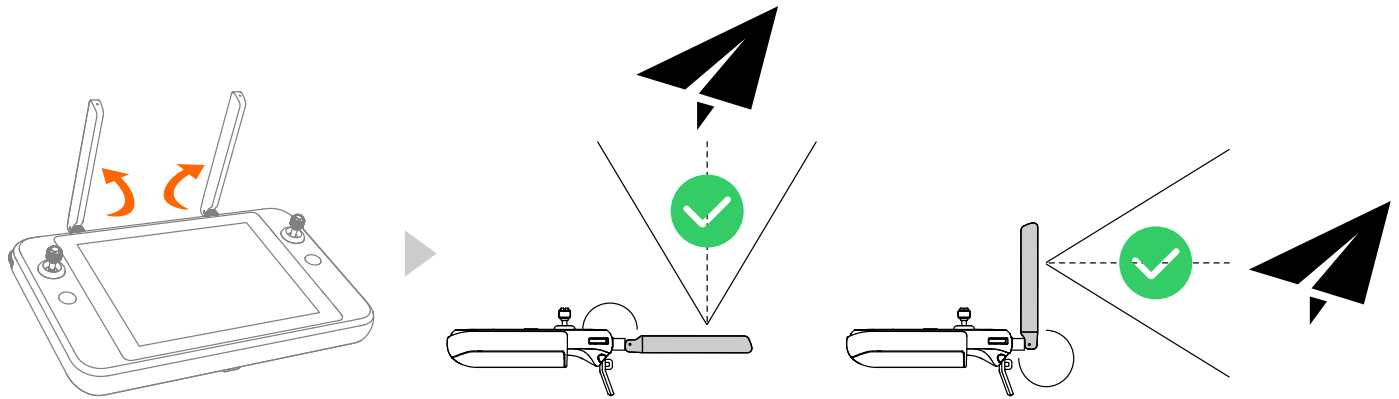
i IMPORTANT:

- If a smart battery or remote controller has been stored for an extended period in a low-charge state, it must be recharged to wake it up. If the remote controller and the smart battery are to remain unused for a long time, it is recommended

to perform a maintenance charge on both every three months to maintain their performance and reliability.

Preparing the Remote Controller

Before flight, make sure the control sticks and antennas are securely installed and the antennas are properly unfolded and oriented to proper angles. Antenna orientation affects signal reception strength. It is recommended to optimize the antenna orientation based on the actual flight environment to achieve optimal communication performance.



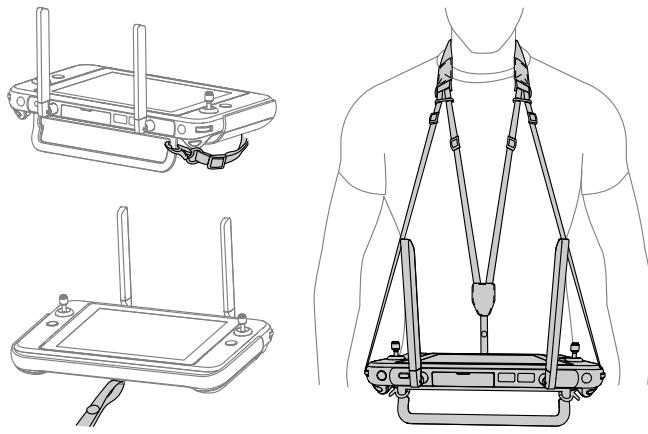
i IMPORTANT:

- Do not use other wireless communication devices operating on the same frequency band while the drone is in use, as they may interfere with the video transmission signal.
- During operation, ensure that the remote controller's antennas are securely attached. If looseness is detected, rotate the antenna connector clockwise until it is fully tightened (i.e., until it can no longer be rotated).
- During actual flight, if the remote controller detects poor video transmission signal quality, it will issue an alert. Immediately adjust the antenna orientation as prompted to keep the drone within optimal communication range at all times.

🔔 TIP:

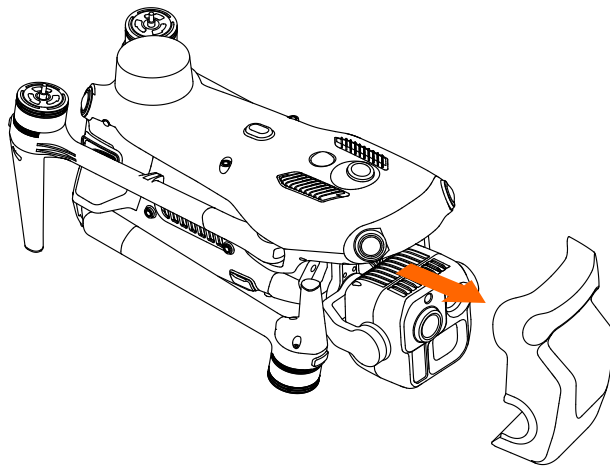
- The best signal quality between the remote controller and the drone can be achieved when the angle between the antennas and the back of the remote controller is either 180° or 270°, and the planes of the antennas are directly facing the drone.

For long flight durations, consider using the remote controller lanyard to reduce hand fatigue.

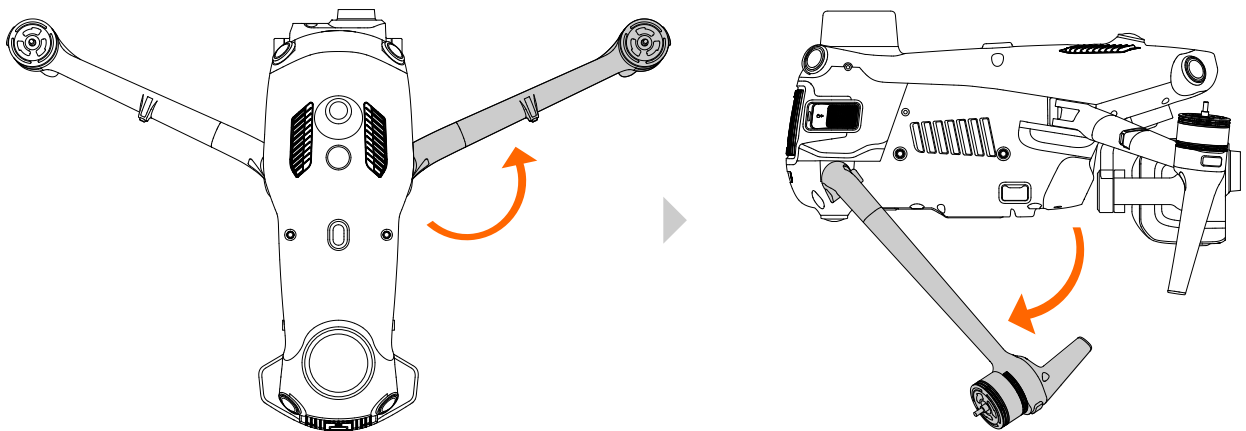


Preparing the Drone

1. Remove the gimbal cover.



2. Unfold the arms: front arms first, and then rear arms.



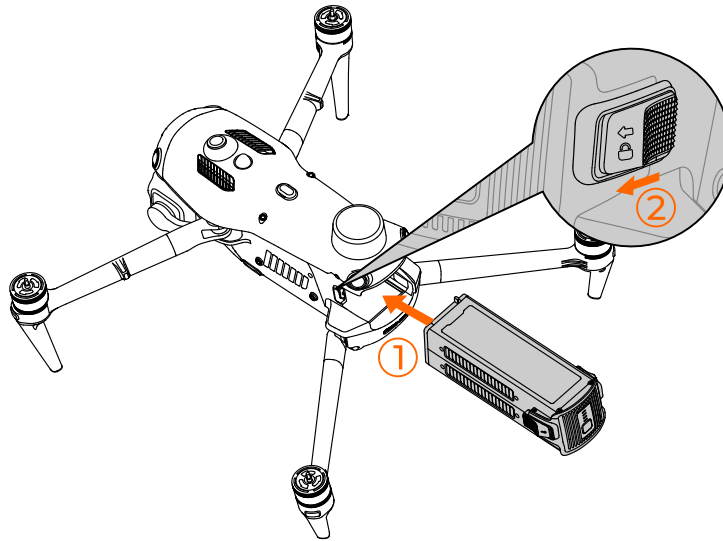
WARNING:

- The drone's rear arms feature a rotating folding design. When unfolding the rear arms, rotate and extend them strictly in the direction shown in the illustration to avoid damaging them.

IMPORTANT:

- When folding the arms, fold the rear arms first and then the front arms, to avoid structural interference and ensure smooth folding.

3. Install the smart battery: After inserting the battery into the battery compartment, press the battery buckles on both sides to ensure they properly engage with the positioning slots in the drone body, and then slide the locking tabs on the buckles backward to secure the battery in place.



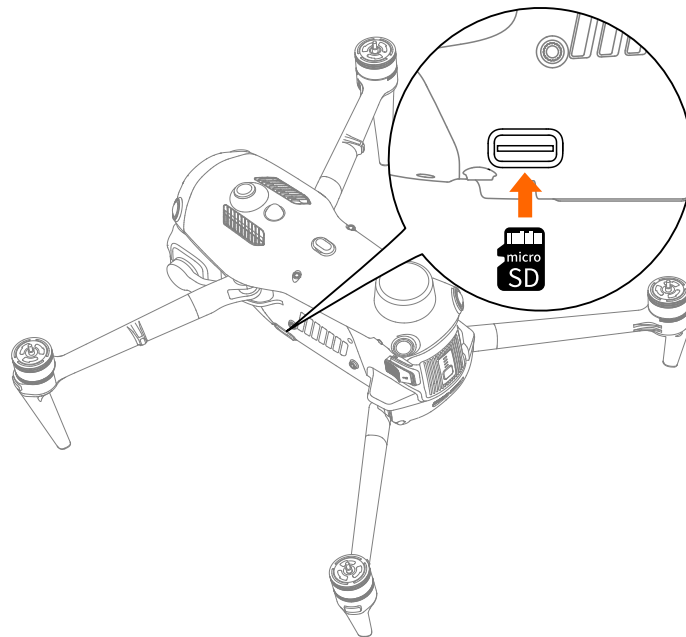
⚠ WARNING:

- If the smart battery is not properly locked in place, it may accidentally detach during flight due to fuselage vibrations, leading to power loss and potentially causing a crash. Always ensure the battery is securely locked before takeoff.

i IMPORTANT:

- When replacing the battery, first release the lock, press the buckles on both sides of the battery, and then gently pull it out.
- The drone's battery compartment features a battery detection system at the positioning slots. If the battery is not fully installed, the drone cannot take off.

4. Insert the microSD card correctly and firmly close the rubber protective cover over the card slot.



 TIP:

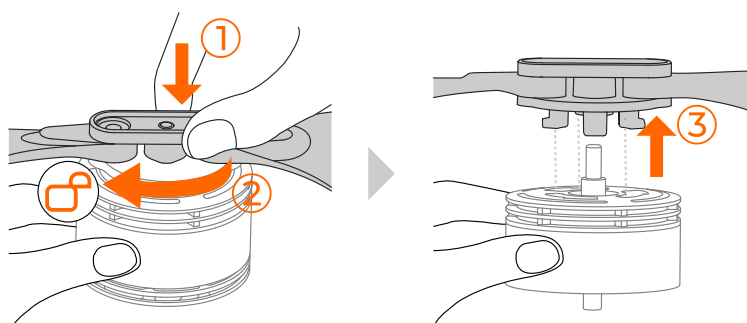
- To shoot high-definition videos, it is recommended to use a microSD card of Class 10, UHS Speed Class 3 (UHS-3), or higher specifications.

 NOTE:

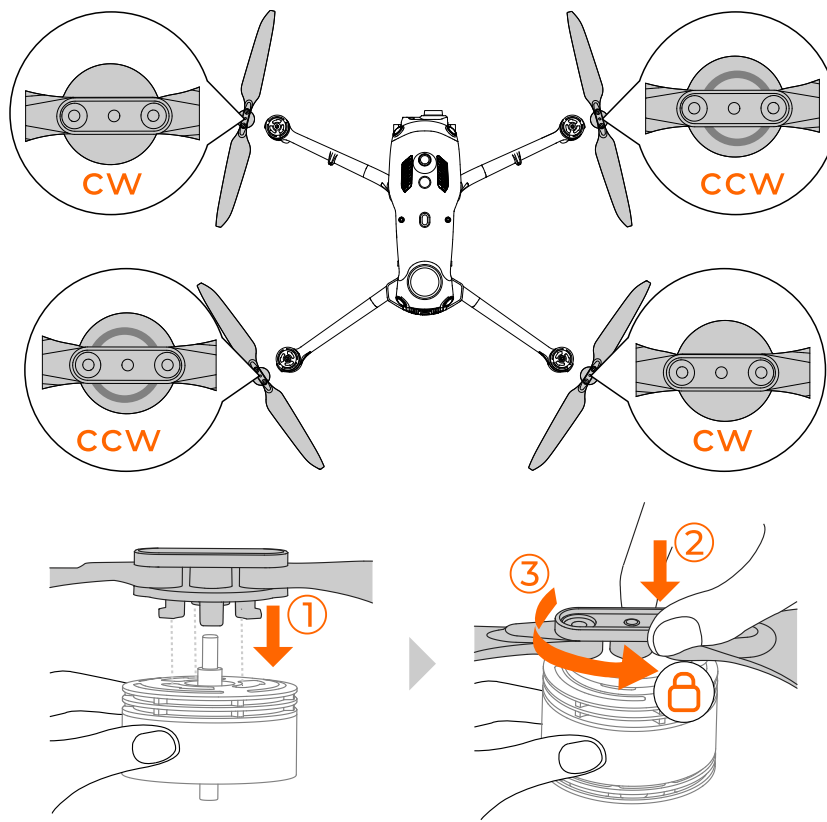
- The drone comes with a microSD card pre-installed. If you need to replace it with a new microSD card, follow the instructions above.

5. Install the propellers according to their matching markings:

- **Removing old propellers:** Press the propeller hub down fully and rotate it in the unlock direction until it detaches.



- **Installing new propellers:** Insert the propeller hub into the motor mount, press it down fully, and rotate it in the lock direction until it clicks securely into place.



WARNING:

- Before replacing any propellers, ensure that the drone is powered off.
- Use only the original propellers we recommend. Do not mix or use propellers of different specifications or models.
- After replacement, always inspect and confirm that the propellers are firmly installed.
- Never approach or touch the spinning propellers or motors during flight or while the motors are running, as this may cause serious lacerations.

NOTE:

- The drone comes with propellers pre-installed, so no additional installation is required. If you need to replace them, follow the procedures outlined above.

Activation and Registration

New drones and remote controllers must be activated before use. After powering on, ensure the remote controller is connected to the internet and linked with the drone, then follow the on-screen operation guidance to complete activation.

United States

- Register at [FAADroneZone](https://www.faa.gov/uas/register) before use. Operators must be 13 years or older.

- Visit FAADroneZone: <https://faadronezone-access.faa.gov/#/>
- Penalties for unregistered operations may include fines up to \$27,500 (civil) or up to \$250,000 and/or 3 years imprisonment (criminal).

Canada

- Operators must be at least 14 years old and carry a valid pilot certificate issued by Transport Canada.
 - A valid drone pilot certificate must be issued by Transport Canada in either printed or electronic form. Other forms of certification are not accepted.
 - Learn more: <https://tc.canada.ca/en/aviation/drone-safety/drone-pilot-licensing/getting-drone-pilot-certificate>
- A new drone must be registered under real-name identification before it can be operated. The drone is only permitted to fly in **controlled airspace** and **near people**. Violation of relevant regulations may result in fines of up to **CAD 3,000** for individuals or **CAD 15,000** for corporations, or imprisonment.
 - Complete the registration here: <https://tc.canada.ca/en/aviation/drone-safety/drone-management-portal>

European Union

- Drone pilots/owners must register with the national aviation authority of their EU country of residence.
 - Registration link: <https://www.easa.europa.eu/drones/NAA>
- The drone is classified as **C2** and must comply with **A2 Open Category** operational rules when used in urban environments:
 - Do not fly over uninvolved persons.
 - Maintain a horizontal safety distance of at least 30 m; reduced to 5 m in **low-speed mode**.
 - Maximum flight altitude: 120 m AGL.
- The drone is also eligible for operations under the A3 Open Category.
- The remote pilot must obtain the **A2 Certificate of Competency** through the following steps:
 - Completing **online training** for A1/A3 categories.
 - Conducting and declaring practical self-training.
 - Passing an additional theoretical exam (monitored online or at the aviation authority).
- Before use, review the safety requirements for EASA Class 2 drones with low speed mode.

- Information Link: <https://www.easa.europa.eu/document-library/general-publications/drone-class-identification-labels-and-information-notice>

Other regions

Consult local aviation authorities or legal experts for relevant drone regulations and registration requirements.

WARNING:

- Be sure to complete the real-name registration for your drone and clearly and securely affix the registration mark on the drone's body as required. Failure to comply with these requirements—either by not registering the drone under your real name or by not properly displaying the registration mark—will result in penalties imposed by regulatory authorities in accordance with relevant laws and regulations.
- Before transferring the ownership of the drone (e.g., through resale), the original owner must complete the deactivation procedure in time. Failure to do so may lead to civil legal risks, including liability for infringement or contractual disputes. In serious cases—for example, if the drone is used by another party for illegal activities—the original owner may also face corresponding criminal liability.
- In Canada, do not fly the drone over people.
- The drone is not a toy. In the EU, operators must be at least 16 years old.

TIP:

- The drone and remote controller are pre-configured with **Single Link** at the factory. If there is no need for **A-Mesh Link**, re-linking is generally unnecessary.
- When the drone is powered off, press and hold the power button on the drone for 3 seconds to power it on. After startup, double-press the power button quickly to enter **Single Link** mode.
- After the remote controller is powered on and activated, in the Enterprise App, tap **Connecting** and then **Single Link** to enter Single Link mode. For the detailed linking procedure, see the "**Linking**" section in the "**Remote Controller**" chapter of this manual.
- During drone activation, the system prompts you to complete real-name registration and displays the drone's serial number on the guidance page.

Basic Flight

Pre-Flight Check

Before takeoff, perform a comprehensive inspection of the drone system item by item by referring to the **Pre-Flight Checklist** section in the **Flight Safety** chapter, to ensure flight safety.

If any of the following conditions occur during the drone's self-check phase or before takeoff, the corresponding flight policy will be implemented to ensure flight safety:

Anomaly

Flight Policy

Inertial measurement unit (IMU) error
Electronic speed controller (ESC) error
Barometer error
Battery error

Battery not properly installed
Real-time kinematics (RTK) module not in FIX state after an automatic flight mission is issued
Internal communication error
Remote ID error (US only)

Takeoff prohibited

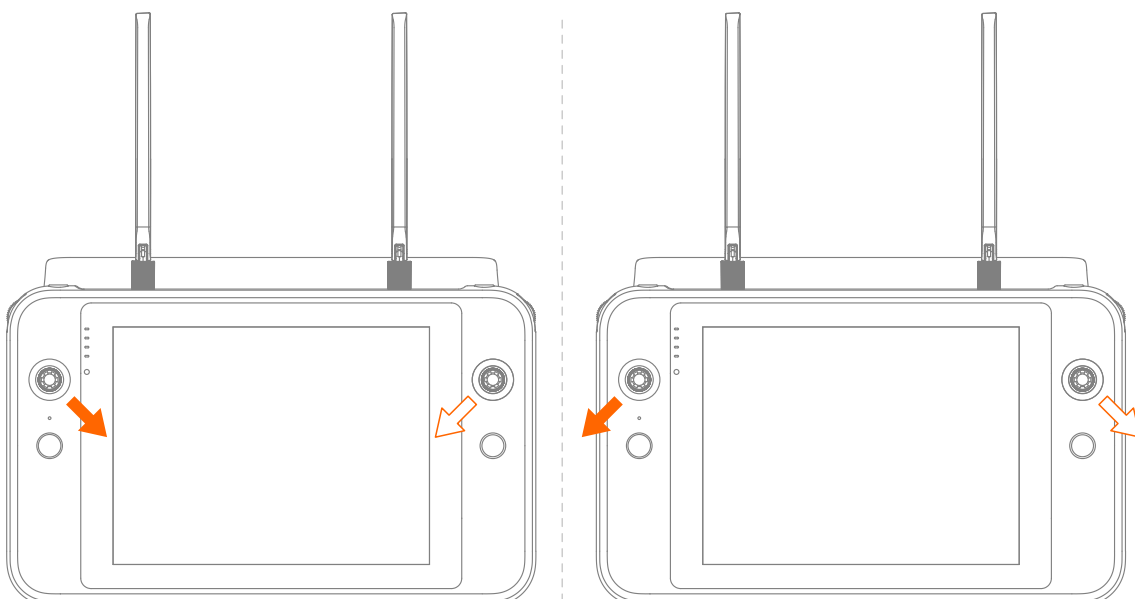
Magnetometer error
RTK not in FIX state in manual flights
Attitude mode active
Remote ID error (outside the US)

Takeoff permitted and caution advised

Operating the Drone

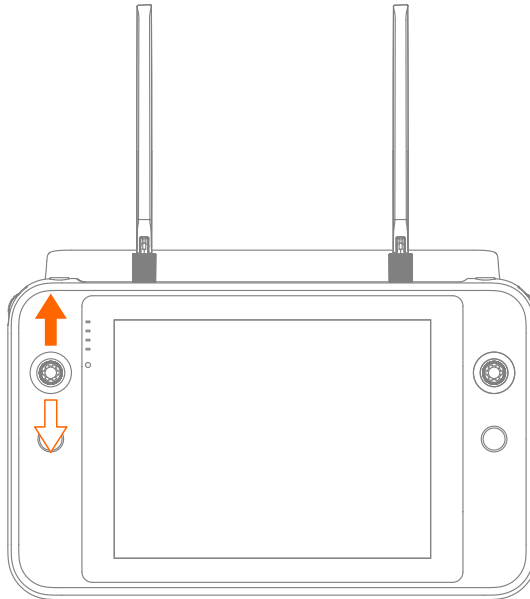
Starting/Stopping Motors

- **Start the motors:** After the drone and remote controller have been powered on and successfully linked, simultaneously push both the left and right sticks down and move them inward or outward, and hold this position for 2 seconds to start the motors.
- **Stop the motors:** If the drone has not taken off, while the motors are running, simultaneously push both the left and right sticks down and move them inward or outward, and hold this position for 2 seconds to stop the motors.



Manual Flight (Mode 2)

- **Takeoff:** Slowly push the throttle stick upward to make the drone take off.
- **Landing:** Pull the throttle stick downward until the drone touches the ground, and hold the stick at the lowest position for a few seconds until the motors stop completely.



WARNING:

- After the drone lands, ensure that the motors have fully stopped before approaching the drone to avoid injury.

NOTE:

- The throttle stick controls the drone to ascend or descend. Its position on the remote controller depends on the selected stick mode: In **Mode 2**, the left stick is the throttle stick, and in **Mode 1** or **Mode 3**, the right stick is the throttle stick.

Emergency Propeller Stop in Flight

When the drone encounters an unrecoverable failure in flight (e.g., damaged or missing propellers, motor malfunction) and can no longer be controlled normally, you can perform an **Emergency Propeller Stop** to reduce potential property loss and risk of injury to people on the ground.

- In the Enterprise App, choose **Settings** >  **More** > **Safety**, and set **Emergency Stop Propellers** to **On**. Then, you can shut down the drone's motors during flight by simultaneously pushing both the left and right sticks fully downward and moving them inward or outward.

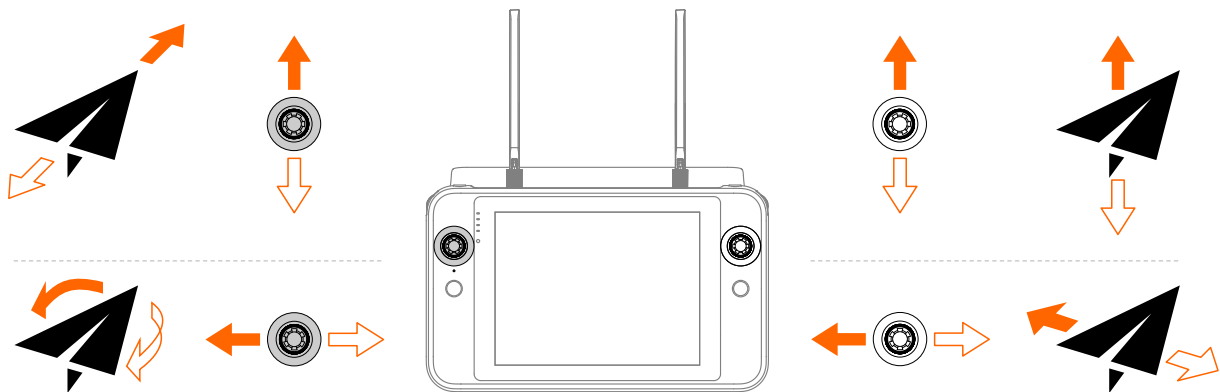
WARNING:

- In the event of a malfunction, try your best to maneuver the drone away from sensitive areas such as crowds and buildings, while also reducing the altitude and horizontal speed before activating the **Emergency Stop Propellers** function.
- After **Emergency Stop Propellers** is triggered mid-air, the drone will free-fall along a parabolic trajectory. Do not activate this function unless you can ensure the safety of the descent path.
- Any drone that has undergone an emergency propeller stop must not be used again and should be immediately sent to us for professional inspection and repair.

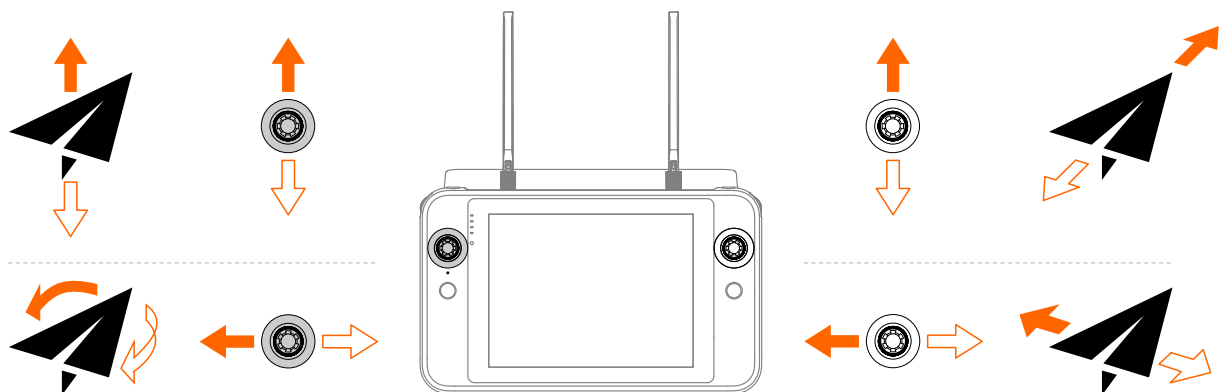
Stick modes

The remote controller supports three stick modes: **Mode 1**, **Mode 2**, and **Mode 3**. The function assignment of the control sticks varies across these modes, as detailed below:

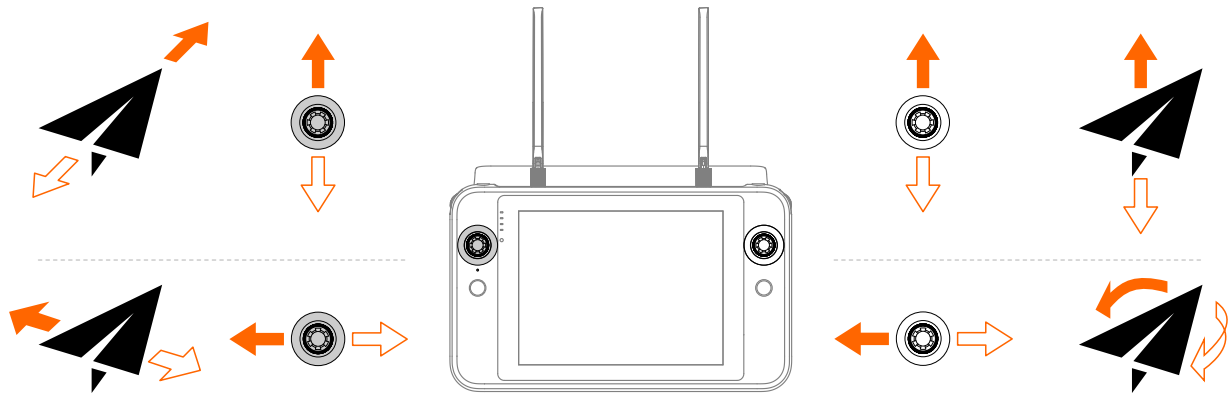
Mode 1



Mode 2



Mode 3



⚠ WARNING:

- Before operating the drone, ensure you have confirmed the current stick mode of the remote controller to avoid flight safety incidents caused by mismatched control logic.

🔔 TIP:

- The drone responds more quickly to larger stick movements.

📝 NOTE:

- By default, the remote controller is set to **Mode 2**. All operational instructions in this manual are based on **Mode 2**.

Drone

Flight Modes

The drone supports three flight modes: **GNSS mode**, **visual positioning mode**, and **attitude mode**. The flight control system automatically determines and switches modes based on flight conditions. Manual switching is not supported. The flight modes are described as follows:

Flight Mode	Description
GNSS mode	When the drone detects a qualified GNSS signal, it automatically enters the GNSS mode. In GNSS mode, if obstacle avoidance is enabled (by choosing  >  OA in the Enterprise App and setting Obstacle Avoidance System to Brake or Bypass), the obstacle avoidance system provides auxiliary data to help accurately locate and avoid obstacles, ensuring smooth and stable flight. In GNSS mode, safety features such as RTH, failsafe, and geofencing are supported.

Flight Mode	Description
Visual positioning mode	When Visual Positioning is enabled for the drone (by choosing  >  More > Safety and enabling Visual Positioning in the Enterprise App) and the GNSS signal does not meet the requirements for the GNSS mode, the drone will automatically switch to the visual positioning mode, provided that ambient lighting conditions and flight altitude satisfy the operational requirements of the visual sensing system.
Attitude mode	When the GNSS signal is unavailable and environmental conditions—such as lighting and flight altitude—fail to meet the minimum operational requirements of the visual sensing system, the drone will automatically enter the attitude mode due to the loss of both GNSS and visual positioning. In this mode, obstacle avoidance is disabled, and altitude control relies solely on the barometer. You assume full responsibility for flight safety decisions.

WARNING:

- If you have not fully mastered drone flight operation skills, do not attempt to take off in attitude mode, as improper control may lead to flight safety incidents.
- When the drone is operating in **visual positioning mode** or **attitude mode**, it cannot perform automatic RTH and cannot recognize geofenced areas such as no-fly zones. During flight, always remain aware of the airspace status to avoid unintentionally entering restricted or controlled areas.

Speed Modes

The drone supports four speed modes, which differ in terms of flight speed, maneuverability, and enabled features.

Speed Mode	Max Ascent Speed	Max Descent Speed	Max Horizontal Speed	Obstacle Avoidance
Slow - L mode	2.5 m/s	2.5 m/s	2.5 m/s	Supported
Smooth - C mode	3 m/s	3 m/s	10 m/s	Supported
Standard - N mode	6 m/s	6 m/s	Forward/Backward movement: 15 m/s Lateral movement: 10 m/s	Supported
Ludicrous -S mode	8 m/s	6 m/s	Forward movement: 23 m/s	Not supported

Speed Mode	Max Ascent Speed	Max Descent Speed	Max Horizontal Speed	Obstacle Avoidance
			Backward movement: 18 m/s Lateral movement: 20 m/s	

NOTE:

- The above data is measured near sea level in a nearly windless environment and is for reference only. Actual flight performance may vary depending on environmental conditions (such as the altitude, wind speed, temperature, etc.) and payload differences.

After the drone and remote controller are linked, you can switch the speed mode in the Enterprise App on the remote controller using either of the following methods:

- Tap the flight speed mode icon in the status bar of the Enterprise App.
- Choose  >  **Flight**, and specify **Flight Mode**.

WARNING:

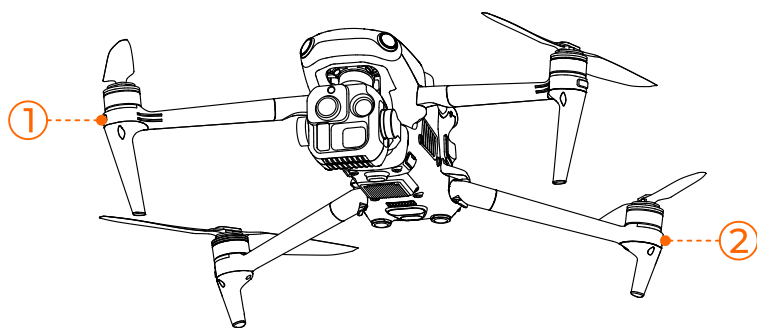
- If you have not fully mastered drone flight operation skills, we strongly advise against switching to the Ludicrous mode, as improper handling could lead to safety incidents.
- **When the Ludicrous mode is activated, the drone's obstacle avoidance system will be disabled**, meaning the drone will not automatically detect or avoid obstacles during flight. Therefore, while operating in this speed mode, you must remain vigilant about your surroundings and manually maneuver the drone to avoid any obstacles.
- Activating the **Ludicrous mode** significantly increases the drone's flight speed, which consequently extends the required braking distance. To ensure flight safety and personal safety, maintain **a minimum safe braking distance of 50 meters** when operating in this speed mode.

IMPORTANT:

- When flying close to the ground, switch the drone to Slow mode to ensure safe operation.

Arm Lights

The drone is equipped with LED indicator lights at the ends of the front and rear arms. During normal operation, these lights flash periodically. The front arm lights serve as navigation indicators, while the rear arm lights function as status indicators.



SN	Component	Description
1	Navigation indicators	Used to identify drone orientation during flight.
2	Status indicators	Indicates the operating status of the drone.

The flashing states of the arm lights are described as follows:

Scene	Navigation Indicators	Status Indicators
Remote controller not connected to drone	: 1 s on/1 s off	: 0.25 s on/0.25 s off
Compass calibration started	: 1 s on/1 s off	: 0.25 s on/0.25 s off
Compass calibration in progress	: 1 s on/1 s off	: 0.25 s on/0.25 s off
Compass calibration successful	: 1 s on/1 s off	: Solid
Compass calibration failed	: 1 s on/1 s off	: Solid
IMU calibration in progress	: Solid	: 0.5 s on/0.5 s off
Low battery	: 1 s on/1 s off	: 0.5 s on/1.5 s off
Critically low battery	: 1 s on/1 s off	: 0.25 s on/0.25 s off
IMU warning	: 1 s on/1 s off	: Solid

Scene	Navigation Indicators	Status Indicators
Invalid battery	 : 1 s on/1 s off	 : 0.5 s on/1.5 s off
Magnetometer warning	 : 1 s on/1 s off	 : 0.5 s on/1.5 s off →  : 0.5 s on/1.5 s off
GNSS mode	 : 1 s on/1 s off	 : 1 s on →  : 1 s on <i>The status indicators are solid red when the navigation indicators are off.</i>
Attitude mode	 : 1 s on/1 s off	 : 1 s on →  : 1 s on <i>The status indicators are solid red when the navigation indicators are off.</i>
Takeoff	 : Solid	 : 0.5 s on/1.5 s off
Cautious takeoff	 : 1 s on/1 s off	 : 0.25 s on/0.25 s off
Single linking in progress	 : 0.05 s on/0.05 s off	 : 0.05 s on/0.05 s off
A-Mesh linking in progress	 : 0.05 s on/0.05 s off	 : 0.05 s on/0.05 s off
Linking successful	 : 0.05 s on/0.05 s off	 : Solid
Linking failed	 : 0.05 s on/0.05 s off	 : Solid
Firmware update in progress	 : 0.1 s on/0.1 s off	 : 0.1 s on/0.1 s off
Firmware update successful	 : Solid	 : Solid
Firmware update failed	 : Solid	 : 0.5 s on/0.5 s off
Obtaining log	 : Solid	 : 0.25 s on/0.25 s off →  : 0.25 s on/0.25 s off
Searching for drone	 : 1 s on/1 s off	 : 0.5 s on/1.5 s off