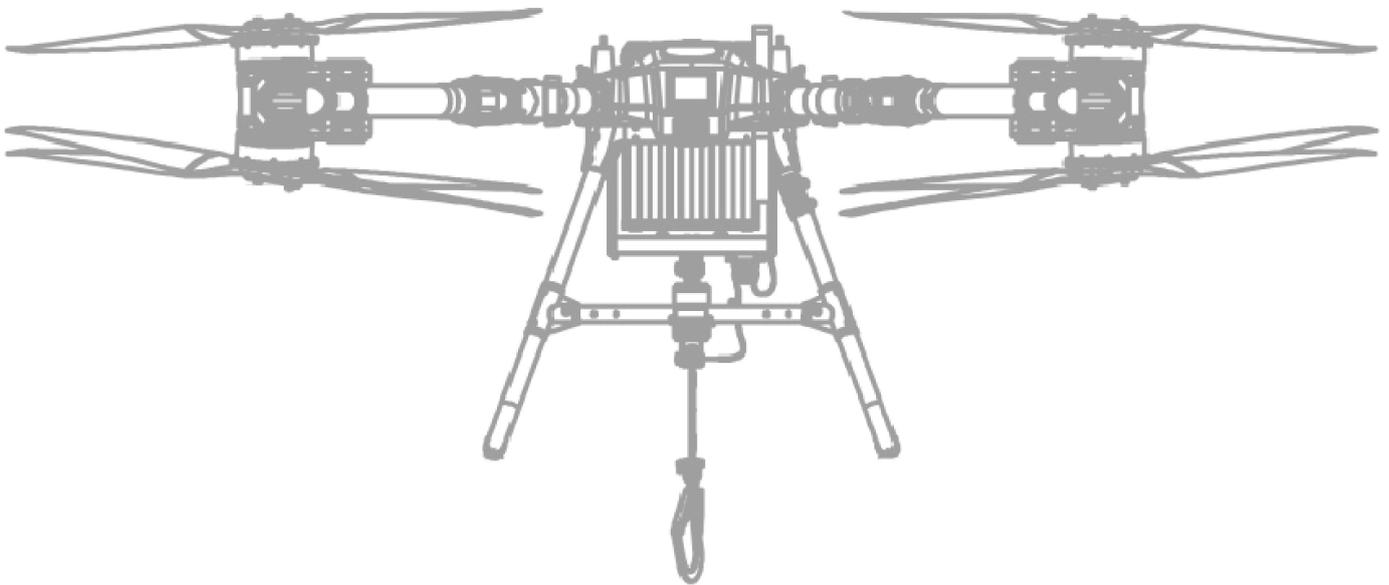




D100 Delivery Drone

User Manual

Version 1.0 EN



Contents

1	Safety Information and Precautions	1
1.1	Safety Instructions	1
1.2	Hazard Response Measures	2
2	Product Overview	4
2.1	Product Introduction	4
2.2	Drone Parts	4
2.3	Remote Control	5
2.4	Battery	7
2.5	Charger	8
3	Flight Preparation	9
3.1	Device Activation	9
3.1.1	Account Registration	9
3.2	Operating Environment	10
3.3	Pre-flight Inspection	11
3.4	Calibration	11
3.4.1	Controller Calibration	12
3.4.2	Magnetic calibration	12
3.4.3	Horizontal Calibration	12
3.4.4	Weight calibration	12
3.5	Flight	13
4	Drone Operation	15
4.1	Remote Control	15
4.1.1	Remote Control Gear	15
4.1.2	Rocker Mode	15
4.1.3	Homepage	17
4.1.4	G20 Device Tool APP	17
4.2	APP Overview	18
4.2.1	APP Homepage	18
4.2.2	APP Settings	20
4.3	Lifting	21
4.3.1	Point-to-Point Mode	21
4.3.2	Manual Mode	22
4.4	Emergency Fuse	22
4.5	Indicator Light Instruction	23
4.5.1	Motor Indicator Light	23
4.5.2	Battery indicator light	25
4.6	Battery Instructions	25
4.7	Charger Instructions	26
4.7.1	Charger Interface	26
4.7.2	Charger Usage	26
5	Maintenance	28
5.1	Drone Maintenance	28

5.2 Battery Maintenance	28
5.3 Updates	28
6 Specifications and Appendix	30
6.1 Specifications	30
6.2 Disclaimer	31

1 Safety Information and Precautions

1.1 Safety Instructions

User requirements

Delivery drones should be operated by professional who are at least 18 years old. Operators must be familiar with the performance, operation and regulations of drones. Operations without training are forbidden.

Environment Safety

Weather Conditions: Avoid operation in adverse weather, such as strong winds (wind speed exceeding the 6m/s), heavy rain, lightning, heavy fog, etc. which may cause control loss, damage, or affect operation effect.

Geographical environment: Flying in an open, flat, unobstructed area and away from crowds, buildings, high-voltage wires, airports and other no-fly zones and sensitive areas. If flying in hilly areas or complex terrain, pay attention to undulations and barriers to prevent collision.

Air traffic control: Comply with local laws and regulations, fly within permitted airspace, avoid entering restricted airspace or interfering with the normal flights.

Equipment Inspection

Before each flight, Check each part of the drone, including frame structure,propellers condition ,motors running,battery power and cables connection,etc. Make sure the drone is ready to take a flight.

Check the lifting system to ensure the hook is secure, the fuse is in good condition, and the gravity sensor is functioning properly, ensuring safety and accuracy during cargo transport operations.

Flight Safety

Keep a safe distance from people and objects when taking-off and landing. During the flight, pay attention to the flight status and parameters, such as altitude, speed, battery power, signal strength, etc. If any abnormality, take emergency landing or homing in time.

Don't interfere the drone and keep effectively control during the flight. If signal loss or losing control, do not panic, and operate according to the pre-set protection procedures such as home or hover.

Battery Safety

Use official batteries, don't use inferior or mismatched batteries to avoid accidents such as fire and explosion. Use the matching charger and charging in correct method and requirements, avoid charging in high temperature, humid or flammable environments.

Store batteries in proper place and avoid overcharging,over-discharging or overheat. Check and maintain the batteries regularly, if battery bulging or leakage or other abnormality, stop using immediately and dispose of it properly.

1.2 Hazard Response Measures

Operators should strictly follow safety regulations, regularly maintain the drones, remain calm when hazards occur, and effectively response to ensure safety of operation,persons and environment.

Delivery drone hazards and countermeasures are as follows:

Hazard Type	Description	Countermeasures
Mechanical Failure	Propeller damage cause drone imbalance and crash, potentially harming persons and damaging crops or facilities.	Before flying, check propellers for cracks or wear and replace if any. Regularly check screw tightness.
	Motor failure causes the drone to lack power, unable to fly and may fall.	Maintain the motor regularly, clean the dust and debris, check its cable connection, and if any abnormal heat or noisy, send to repair or replace it in time.
	The drone structure damage affects flight stability and safety.	Check the frame before and after each flight. If any cracks, deformation or others, stop using and repair it or contact local agent for after-sales
Electrical Failure	Battery overheat,fire or explosion harms surroundings and causes drone crash.	Using official batteries,avoid over charging and over-discharging, charge in well-ventilated place and away from flammable. Equipped with battery explosion-proof box, monitor battery temp during flight, if any abnormality,land the drone immediately and stay away.
	Circuit short causes losing control or system failure.	Regularly check the drone's internal circuits to see if cables damaged, aged, or have short circuit. If any problem, repair or replace it in time.

Loss of control	Signal interference causes losing control, may cause drone flying around and colliding.	Try to fly in an area away from strong signal sources (such as large base stations, high-voltage lines, etc.). Check the signal strength of the remote control and the drone before flying. If the signal weakens, adjust the flight position or altitude in time. If necessary, set the out-of-control automatic return and ensure the safety of the return path.
	Abnormal GNSS positioning cause the drone to deviate from the preset route and may fly into a no-fly zone or dangerous area.	Make sure the GNSS signal is good and positioning accurate before flight. If there is a positioning drift, calibrate the GPS or change the flight site, and set up an electronic fence to prevent accidentally entering the danger zone.
Collision	Collisions on obstacles such as buildings, trees, and poles damage the drone and even cause secondary accidents.	Check the site before flight, mark and avoid the barriers when setting route. During flight, enable obstacle avoidance (if available) and be alert for manual intervention.
	Collision with flying objects such as birds affects flight stability.	Try to avoid flying near bird migration routes or habitats. Use devices or make noise to drive birds. If collision, check the damage and evaluate whether to operate or not.
	The cargo gets entangled with obstacles below.	The drone should first stabilize and hover, then ensure there are no obstacles or people below. Then activate the fuse function on the app. Once the cargo is detached, the drone can be safely landed in a secure area.

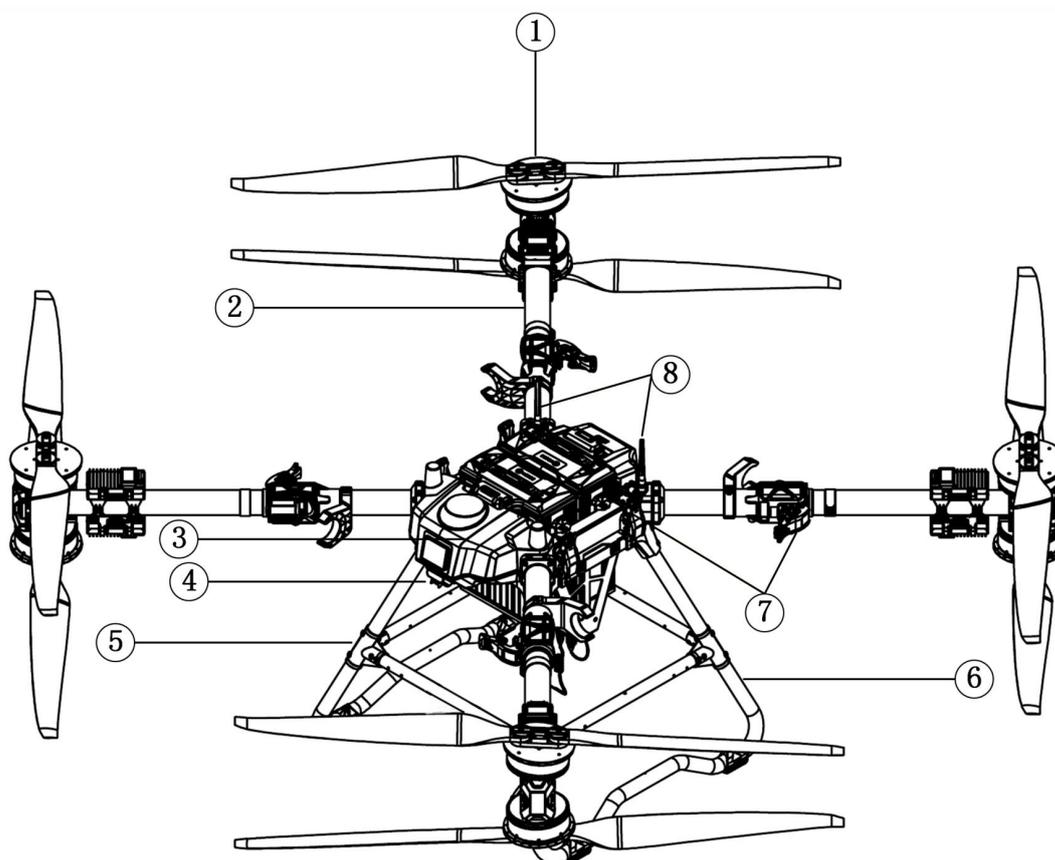
2 Product Overview

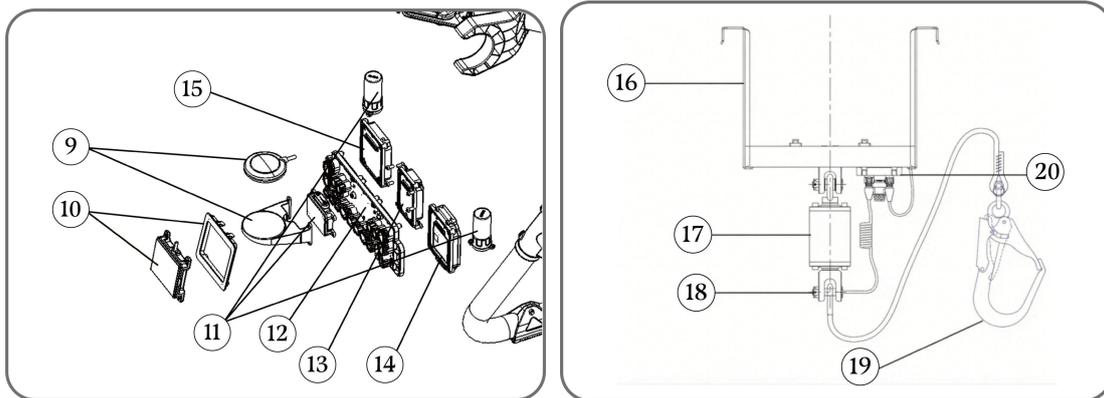
2.1 Product Introduction

The D100 is a new 100kg delivery drone with an industrial-grade metal truss frame, offering powerful strength for stable flight under full load. A 7-inch controller integrated with the EFT 4.0 intelligent control system enables efficient multi-scenario transport operations.

With a modular split-body design, it inherits the Z-series waterproof and smart control features. It is equipped with the latest ELM intelligent lifting system, offering real-time weighing, emergency fuse, and a buffering device for safe, reliable delivery operations.

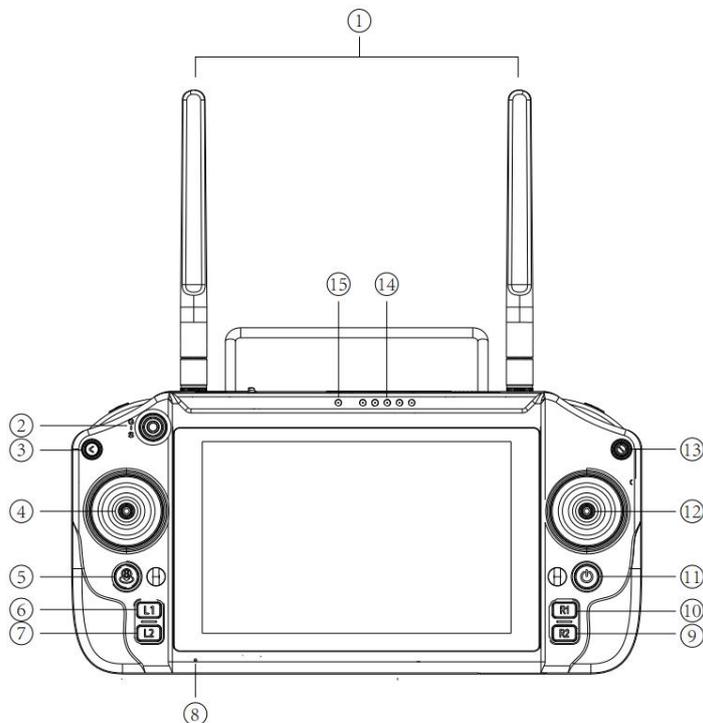
2.2 Drone Parts

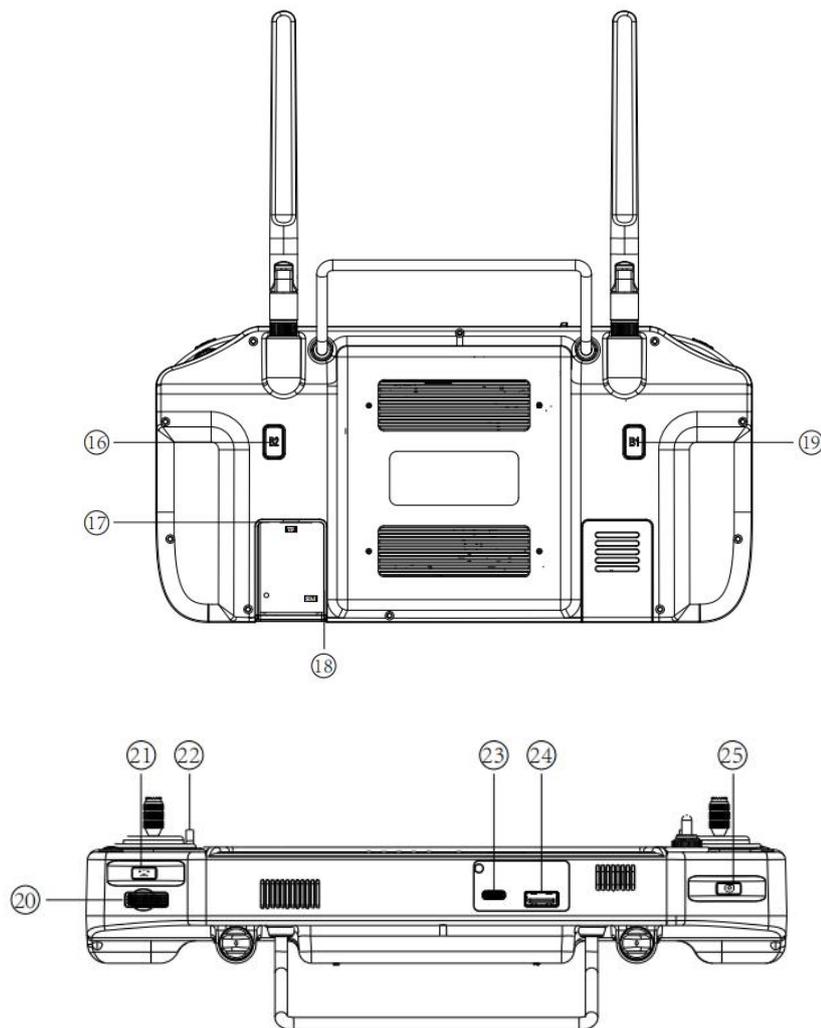




- | | |
|----------------------------------|----------------------------|
| 1. Motor Set | 11. RTK Module |
| 2. Drone Arm | 12. Front Board |
| 3. Front Cover | 13. FC Module |
| 4. Gimbal Camera | 14. RC Module |
| 5. Landing Gear Crossbar Adapter | 15. PMU Module |
| 6. Landing Gear | 16. Side Mounting Bracket |
| 7. Lock | 17. Absorber |
| 8. Receiver Antenna | 18. Fuse |
| 9. GPS/Bracket | 19. Hook |
| 10. Front Radar/Bracket | 20. Lifting Control Module |

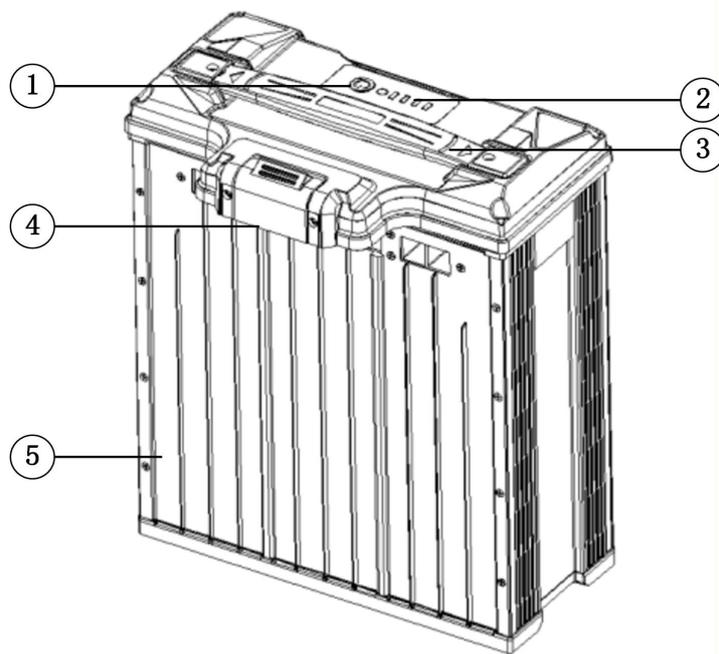
2.3 Remote Control





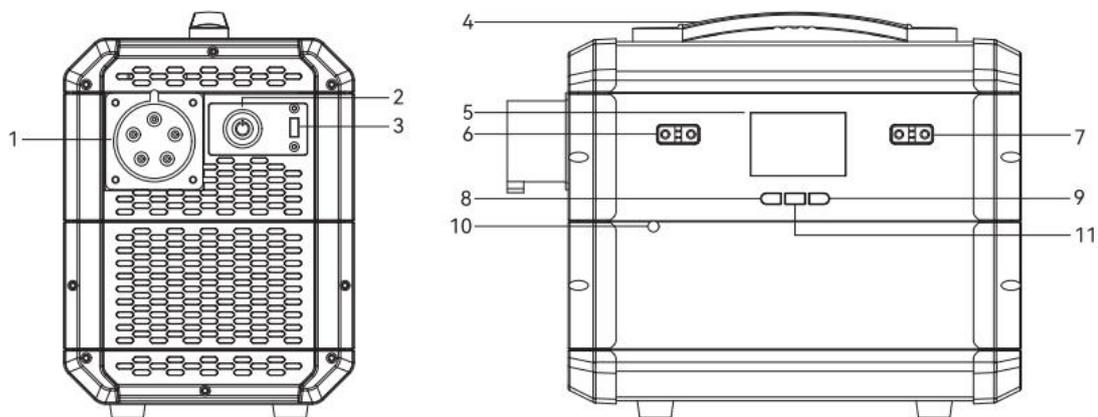
- | | |
|-----------------------------------|------------------------|
| 1. Antenna | 14. Power Indicator |
| 2. Wheel Switch(GPS/GPS/Attitude) | 15. Link Indicator |
| 3. Return Button | 16. B2 Button (Empty) |
| 4. Left Rocker X1、Y1 | 17. TF Card Slot |
| 5. H Button (Home) | 18. SIM Card Slot |
| 6. L1Button (Barrier) | 19. B1 Button (Empty) |
| 7. L2 Button (Terrain Following) | 20. Gimbal Pitch |
| 8. Microphone | 21. Valve/Pump Switch |
| 9. R2 Button (None) | 22. Lanyard Hole |
| 10. R1 Button (None) | 23. TYPE-C Port |
| 11. Switch | 24. USB Port |
| 12. Right Rocker X2、Y2 | 25. Disc/Nozzle Button |
| 13. Pause Button | |

2.4 Battery



- ① **Power switch**
Short press to check the battery power. Short press then long press to power on. **Please make sure battery is inserted before power-on, and power off the battery before remove it or it may damage the drone and interface.**
- ② **LED Indicator**
Shows the battery level.
- ③ **Handle**
For lifting the battery.
- ④ **Power Interface**
For charging and discharging.
- ⑤ **Protective cover**
For protecting battery.

2.5 Charger



- 1. AC Input Port
- 2. Power Switch
- 3. USB Upgrade Port
- 4. Handle
- 5. Screen
- 6. Channel A

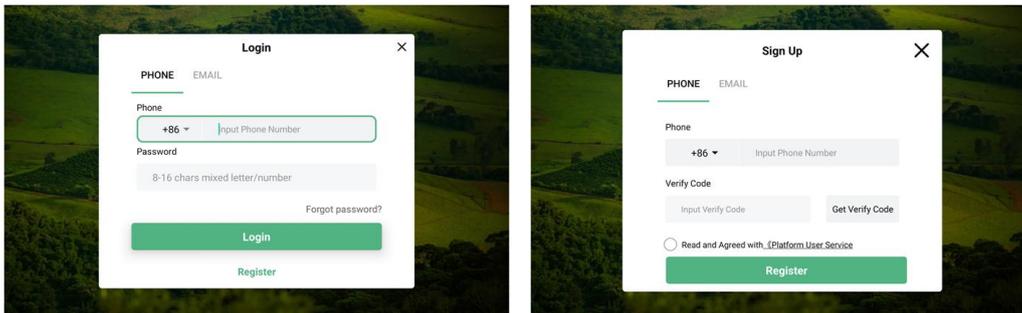
- 7. Channel B
- 8. Button (Power+)
- 9. Button (Power-)
- 10. Ground Screw
- 11. Button (Pause)

3 Flight Preparation

3.1 Device Activation

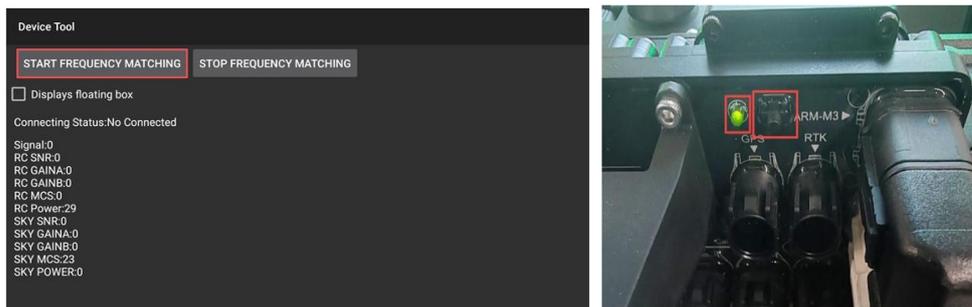
3.1.1 Account Registration

- Step1: Turn on the remote control first, then power on the drone;
- Step2: Open Flight Assistant APP, click **Accounts**, register by filling in information as required (using phone or email to register). Or directly log in exist account.

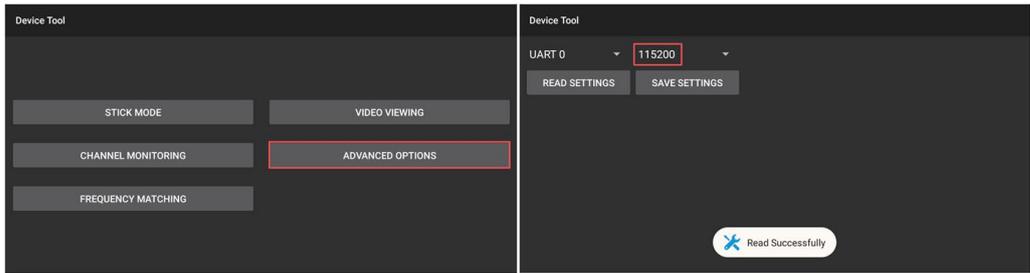


3.1.2 G20 Binding

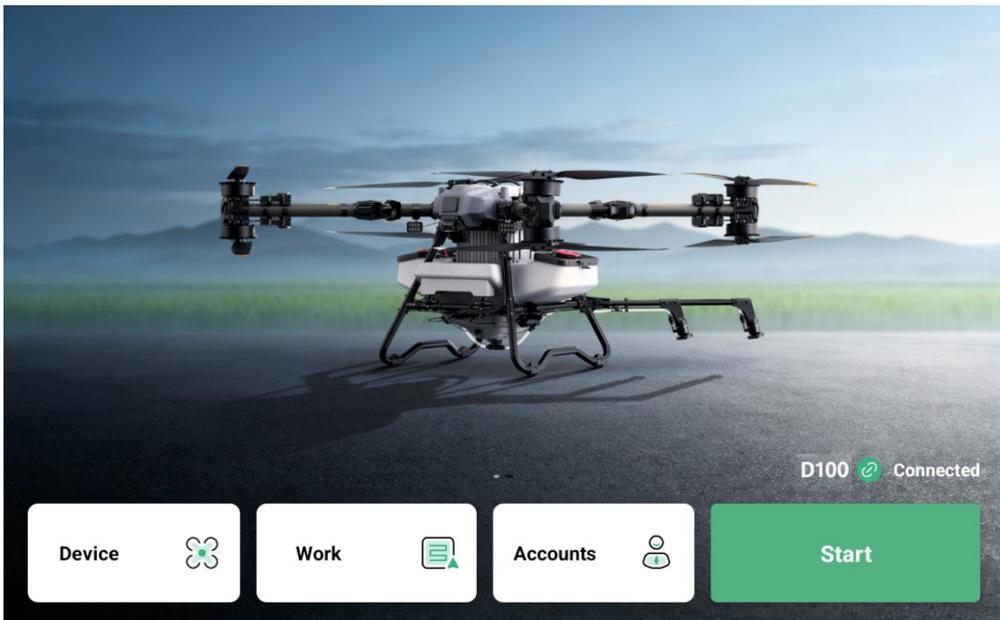
- Step1: Open the G20 Device Assistant APP and click **WIRELESS PARAMETER CONFIGURATION**. It will show Not Connected. Open the front drone cover, long press the receiver button on the front PDB until the indicator light flashes. Click **START FREQUENCY MATCHING**, after successfully matching, it will display **Connected**.



- Step2: Click **ADVANCED OPTIONS**, enter the password 999, click **BAUD RATE SETTING**, set the UART — 115200 then click **SAVE SETTINGS**.



- Step3: Close G20 Device Assistant APP,open Flight Assistant APP. The **Connected** indicates the remote has been matched with the drone successfully.



3.2 Operating Environment

- 1) Please pay attention to obstacles such as electric poles, high-voltage wires, buildings and trees when takeoff, landing and flight, and ensure fly within the visual range and away from roads, water, people and livestock.
- 2) Maintain more than 5 meters away from the drone when taking off;
- 3) Do not fly in bad weather, such as strong winds (wind speed 6 m/s or above), rain (rainfall 25 mm or above in 12 hours), snow, ice, fog, lightning and other extreme weather;
- 4) Do not take off on gravel-covered ground to prevent gravel from entering the motor and causing failure;
- 5) Do not operate indoors, under bridges, or other places where GNSS signals are severely blocked. Ensure that the GNSS signal is good during operation;
- 6) There should be no electromagnetic interference such as high-voltage lines, communication base stations or transmission towers in the operation area and nearby;
- 7) It is recommended to choose an altitude below 1km during operation.

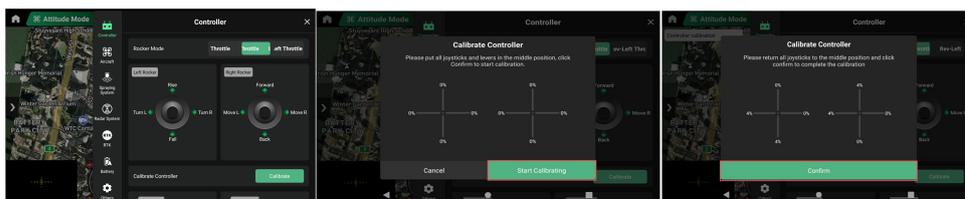
3.3 Pre-flight Inspection

- 1) Ensure that no non-EFT official accessories and loads are installed on the drone;
- 2) Ensure that the batteries are fully charged;
- 3) Ensure that the battery and tank are installed in place;
- 4) Ensure that the motor and propeller are installed correctly and firmly, and the propellers are not deformed, damaged, or aged; the motor and propellers are clean and free of foreign matter, the propellers and arms are fully unfolded, and the arm buckles are locked;
- 5) Ensure that the remote control antenna is unfolded;
- 6) Ensure that the arrow on the GNSS points to the front of the drone;
- 7) Ensure that all components are installed firmly;
- 8) Ensure that all cables are correct and firm;
- 9) Ensure that the surface of the gimbal and radar is clean and unobstructed;
- 10) Prohibited from transporting flammable, explosive, highly toxic, radioactive, or corrosive materials;
- 11) Connect the remote control to the local area network. Check if the APP version and flight control firmware are the latest in Flight Assistant, if not, it is recommended to upgrade before operation.

3.4 Calibration

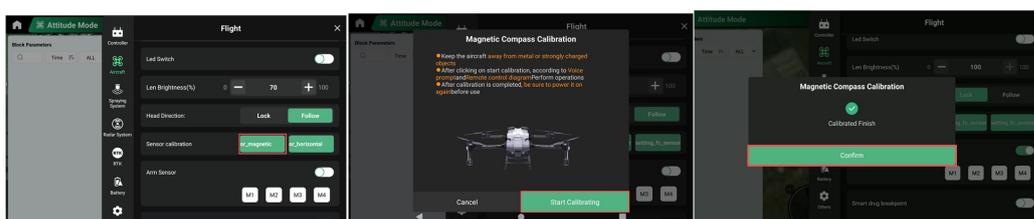
3.4.1 Controller Calibration

- Step1. Enter Settings  -**Controller-Calibrate Controller-Calibrate**;
- Step2. Then move the left and right joysticks to the full extent.(The interface displays the stick movement range.) Repeat this step twice;
- Step3. After completing all the above actions, click **Confirm**.



3.4.2 Magnetic calibration

Enter Settings  -**Flight -Sensor calibration-Magnetic calibration**; According to the prompts to complete the calibration then place the drone on the ground and Confirm. Please power off and then restart it for normal operation.

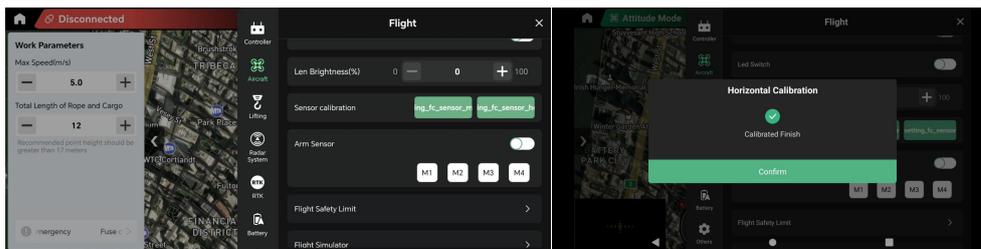




- * Do not calibrate in ferromagnetic areas , such as electric poles, walls with steel bars, etc.
- * Do not carry ferromagnetic materials, such as keys, mobile phones, etc. during calibration;
- * If the work site is more than 50 kilometers away from the calibration site, recalibration is required.
- * With an RTK module installed, compass calibration can be skipped.

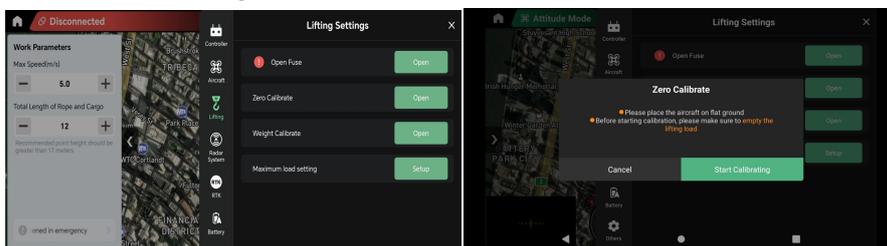
3.4.3 Horizontal Calibration

Before starting calibration, place the drone on a level surface. Open the Flight Assistant app, go to Settings , and enter Flight Settings. Under **Sensor Calibration**, tap **Horizontal Calibration**. When the app indicates that calibration is complete, tap Confirm to finish the process.

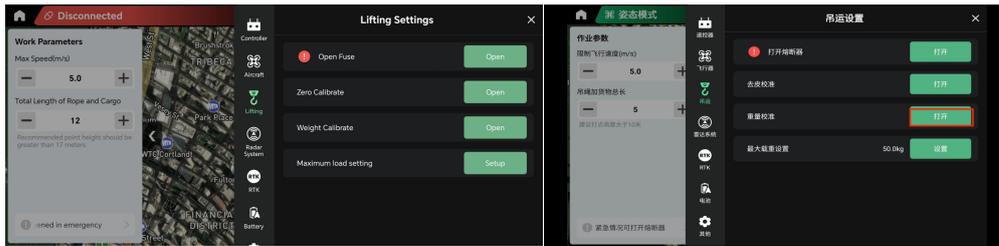


3.4.4 Weight calibration

- Step1: In Flight Assistant APP, Settings - Lifting Settings ;
- Step2: Tap **Zero Calibration**. After confirming that no load is attached to the payload device, tap **Start Calibrating**.



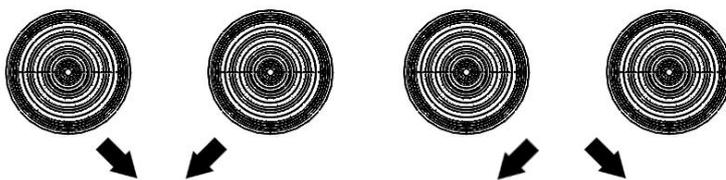
- Step 3: Weigh a load of more than 50 kg and record the value. Attach it using the lifting device. In the app, tap **Weight Calibration**, enter the known weight, and wait for calibration to complete. If the weight displayed on the app matches the entered value, the calibration is successful.



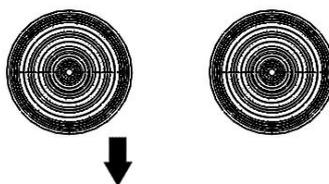
 During calibration, ensure the payload device hangs vertically downward and that the load does not touch the ground.

3.5 Flight

- 1) Place the drone in an open area with the user facing the tail of the drone;
 - 2) The user must wear a helmet, and people must keep a safe distance of more than 5 meters to the drone.
 - 3) Turn on the remote control first, then install and turn on the battery. Connect the drone to the remote control.
- * If connection fails, re-link is needed: Open the G20 APP and click **WIRELESS PARAMETER CONFIGURATION**. It will show **Not Connected**. Open the front drone cover, long press the receiver button on the front PDB until the indicator light flashes. Click **FREQUENCY MATCHING**, after successfully matching, it will display **Connected**.
- 4) Confirm that the rocker mode fits the use habit. (the default setting is Left throttle);
 - 5) If using RTK , select the correct RTK signal source. In Flight Assistant - Settings -**RTK Station**, and select proper data source.
 - 6) Search for satellite: ensure GNSS signal is good, open the antennas and start the motor. If app shows RTK antenna is not ready after a long while, then move to an open area with good GNSS signal.
 - 7) Start the motor: turn the rockers inward or outward for 2 seconds to unlock the motors. Once motors start, release rockers immediately and takeoff as soon as possible. If takeoff is not available, do not start the motor.



8) Stop the motor: Pull down the left rocker (in Left throttle) to land the drone. After landing on the ground, pull the left rocker to the lowest position and keep it still for 3 seconds to stop the motor.





Shutdown in mid-air: When an emergency occurs in the air, to prevent possible danger, turn the rockers inward or outward for 3 seconds, the motor will stop running immediately and the drone will fall to the ground.

* During the flight, do not stop the motor at will, otherwise it will crash. Unless there is an emergency (such as the drone may crash into a crowd), use the shutdown to minimize damage.

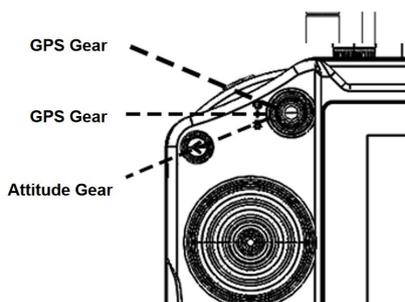
* After the drone lands, please turn off the battery first, then turn off the remote control

4 Drone Operation

4.1 Remote Control

4.1.1 Remote Control Gear

There are two flight gears: GPS and Attitude. GPS is used by default. If Attitude Mode is available in APP, then you can switch mode by gear.



GPS position: Precise hovering and positioning, achieving centimeter-level positioning with RTK.

Attitude position: No fixed-point hovering, only attitude stabilization. The flight speed in this mode is related to environmental factors such as wind speed.

Default gear is GPS. If need attitude mode, in APP-click setting button —flight safety- switch on **Attitude Mode** switch, then move the gear to Attitude mode.



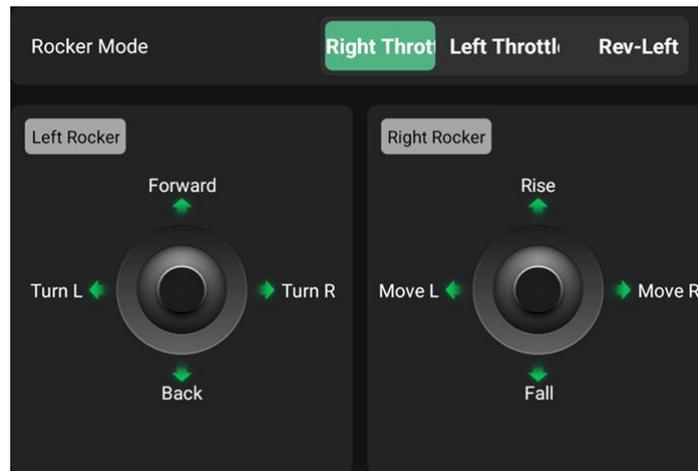
Precautions for Attitude Mode

In Attitude mode, the drone cannot be position and greatly hard to be operate. Using this mode requires operator to excel in drone control. Do not fly too far to prevent lose control and cause hazard. And try to avoid flying in area with poor GNSS signal, obstructions (such as tall buildings), and narrow spaces, so as not to passively start Attitude mode and cause accidents.

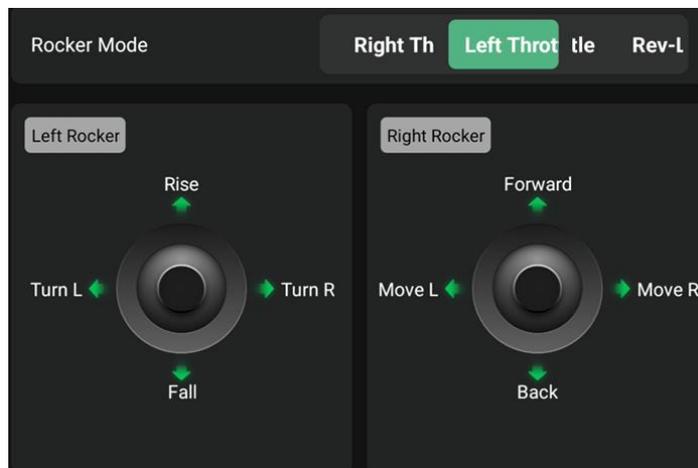
4.1.2 Rocker Mode

In Flight Assistant App, click **Start-Settings** , the Rocker mode includes Left throttle, Right throttle and Rev-Left throttle.

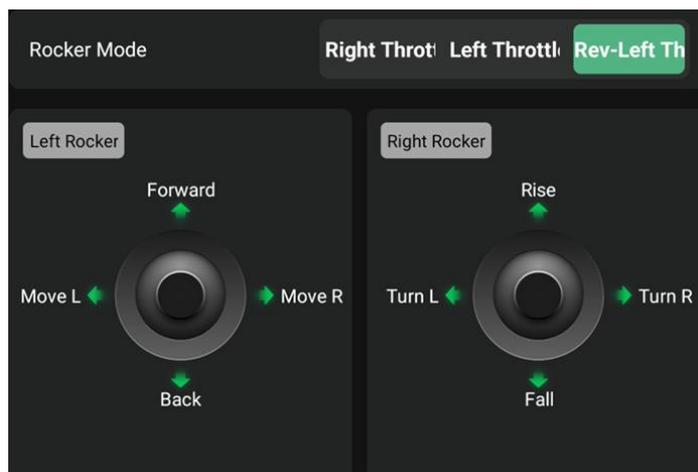
Right Throttle



Left Throttle

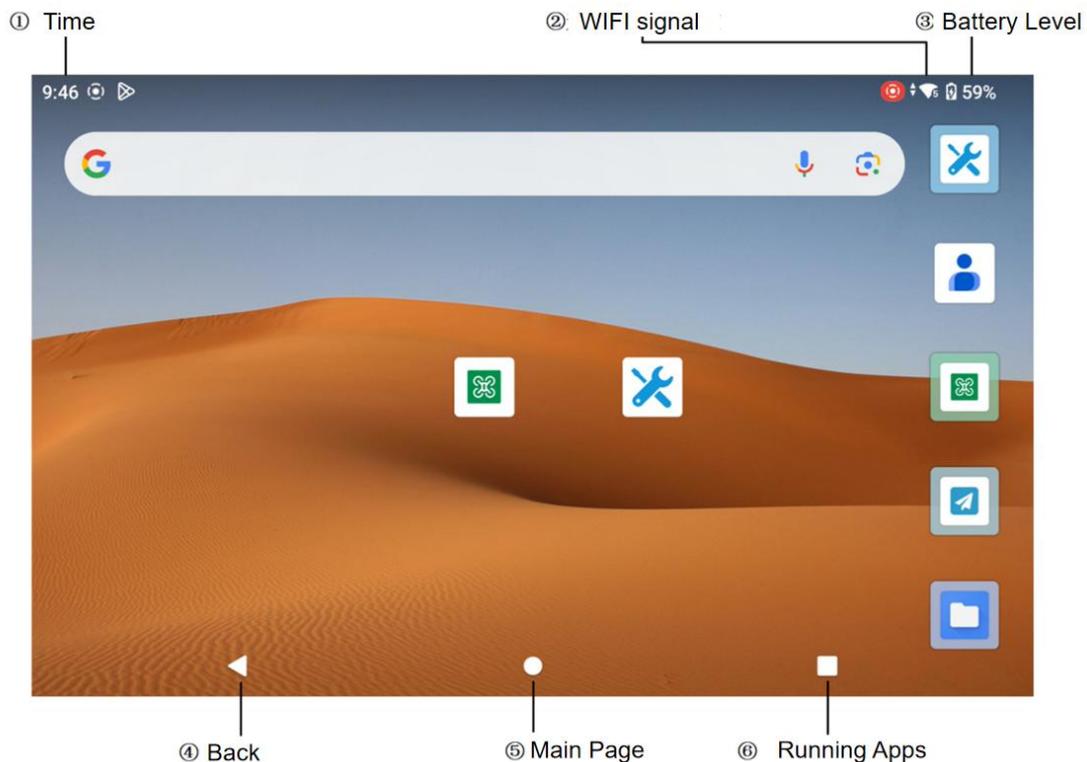


Rev-Left Throttle

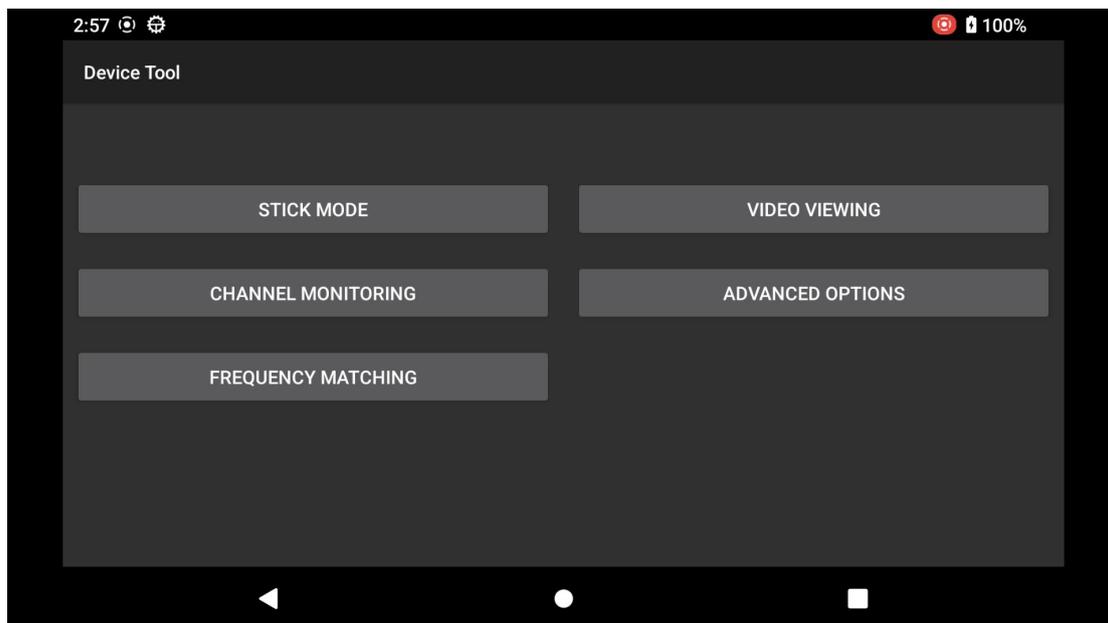


 This manual uses the Left throttle as an example to explain the remote control operation method.

4.1.3 Homepage



4.1.4 G20 Device Tool APP



- ① **STICK MODE**
Choosing stick mode.
- ② **VIDEO VIEWING**

Check camera images.

③ CHANNEL MONITORING

Check remote channels

④ ADVANCED OPIONS

Adjustable channels, remote controller firmware upgrade, button configuration, relay mode setup, and receiver serial port baud rate settings. The baud rate is fixed at 115200 (password: 999, for professional use only)

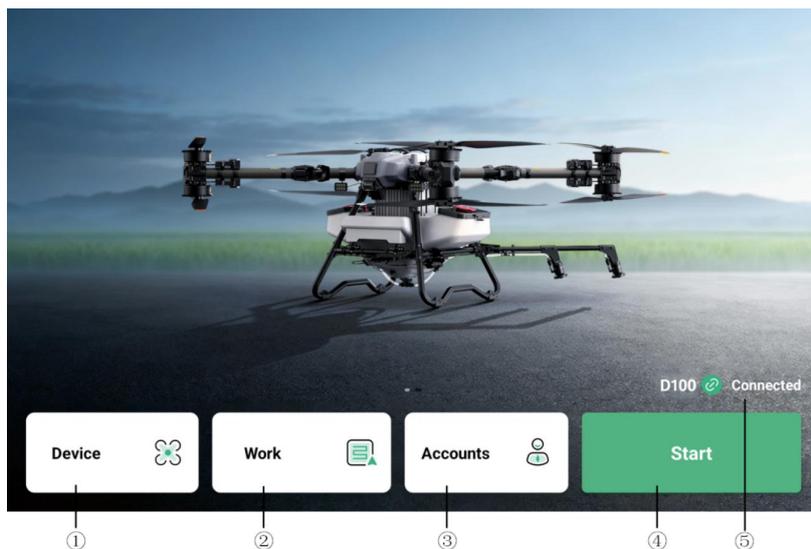
⑤ FREQUENCY MATCHING

Used for binding the remote controller to the receiver and check signal quality

With the EFT Intelligent App, users can monitor the lifting system status and connected devices (radar, cameras, etc.) in real time. The app supports manual and point-to-point operation modes.

4.2 APP Overview

4.2.1 APP Homepage



① Device

View device connection status, flight controller SN and firmware, and firmware updates for the flight controller, radar, and other devices. (Grey icons indicate unavailable functions.)

② Work

View fields, flight data, teams, and devices.

③ Accounts

View user info, flight and lifting records, logs (download FC and app logs), general settings, and account security.

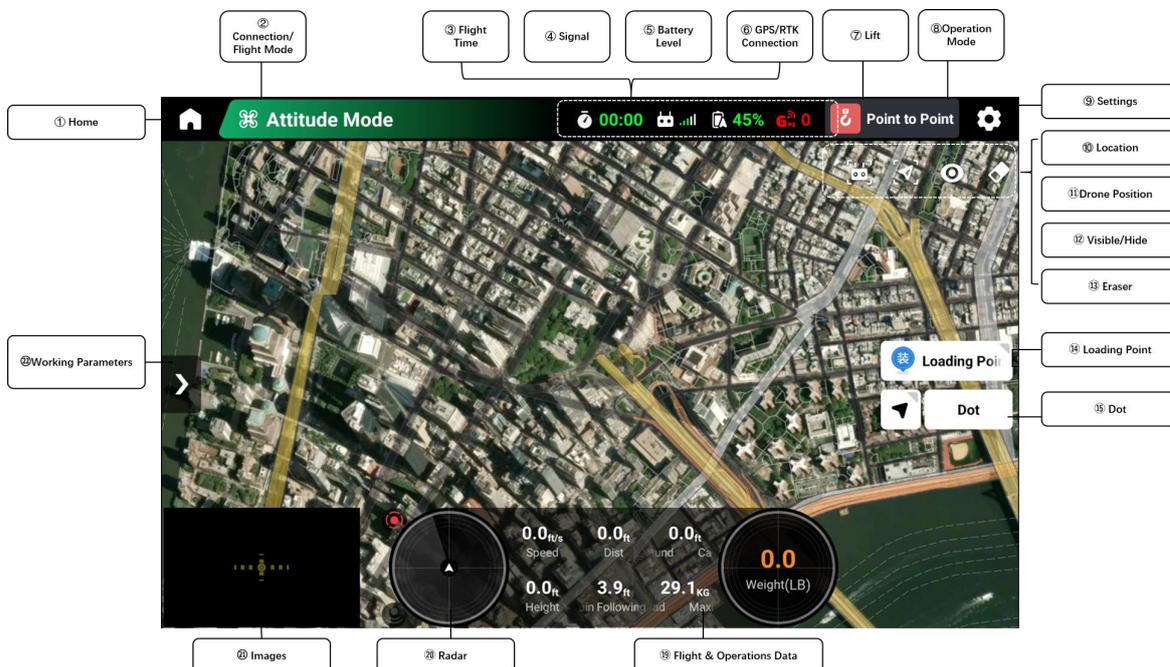
④ Start

Tap to enter the operation page.

⑤ Connected

Shows connection status. If the remote controller is bound and the baud rate is 115200, the device

connects automatically after power-on. If “Disconnected”, bind the device in Device → Remote Controller.



- ① **Home**
Back to Homepage.
- ② **Connection/Flight Mode**
Display the drone status.
Tap to solve alarms: If there is a alarm, tap and view the detail information , solve it accordingly before flying.
- ③ **Flight Time**
The time of each flight is recorded and recalculated when landing.
- ④ **Signal**
Communication status between the remote control and the drone.
- ⑤ **Battery Level**
Display the battery level (smart batteries show battery percentage, others show battery voltage).
- ⑥ **GPS/RTK Connection**
Display the positioning mode.
- ⑦ **Lift Mode**
Automatically identify operating modes.
- ⑧ **Operation Mode**
Manual mode, AB mode and Auto mode are optional.
- ⑨ **Settings**
Set the parameters of drone and remote control.
- ⑩ **Eraser**
Clear the flight trace.
- ⑪ **Visible/Hide**
Click to show or hide the radar ball, aircraft and operation status parameter.

12 Drone Position

Directly locate the real-time position.

13 Remote Control Position

Directly locate the real-time position.

14 Load Point / Unloading Point / Waypoint / Blank Point

Select the point type to mark based on actual operational needs.

15 Dot

Supports point marking via the map, the drone, or the remote controller.

16 Flight and operations real-time data

Speed: Drone real-time flight speed.

Dist: The real-time horizontal distance between the drone and the home point.

Height Above Ground (Load): Real-time vertical distance between the suspended cargo and the ground.

Altitude: The aircraft's altitude relative to the takeoff point.

Terrain-Following Height: Height detected by the terrain-following radar.

Max Payload: The maximum weight the aircraft can carry.

17 Radar

Detect and display vertical obstacles. Tap the icon to turn on or off the obstacle avoidance functions.

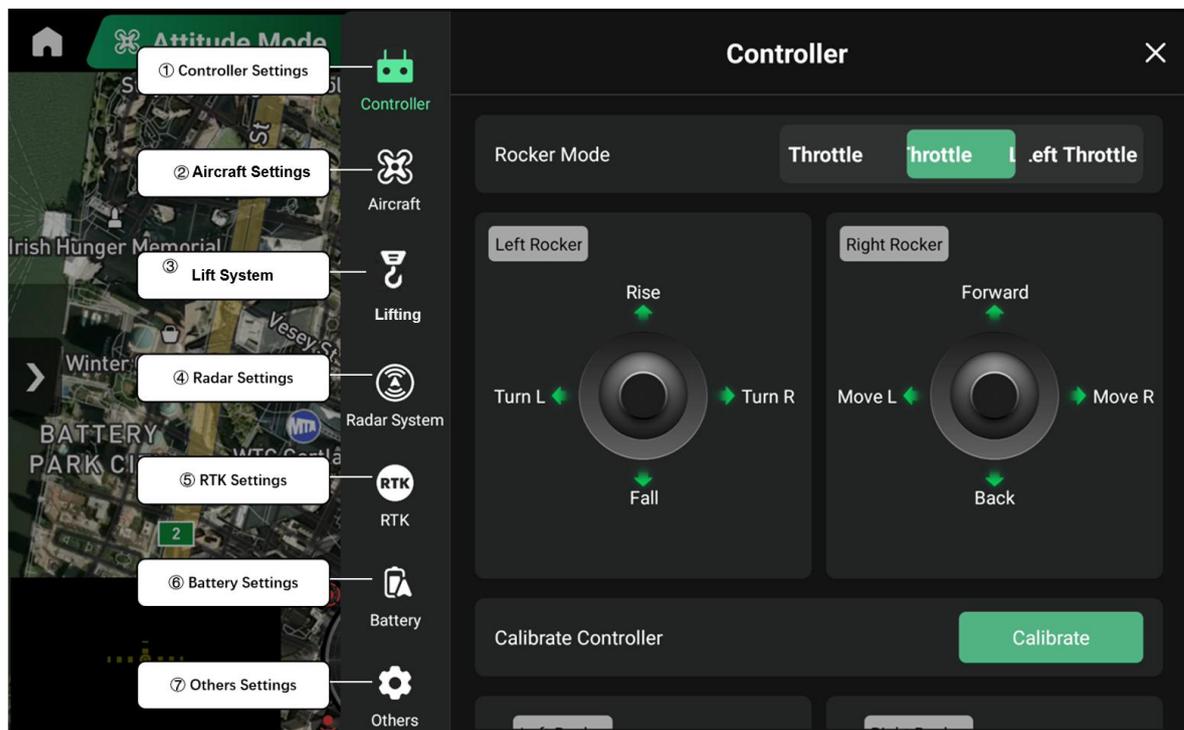
18 Images

Show the real-time camera view, can be switched to full-screen display.

19 Work Parameters

Flight speed and the total length of the rope plus the suspended load can be set.

4.2.2 APP Settings



- ① **Controller Settings**
Choose rocker mode, calibrate controller, set channels.
- ② **Aircraft Settings**
Include flight parameters, Sensor Calibration, Arm Sensor, Smart Drug Breakpoint, Flight Safety Limit and Flight Simulator.
- ③ **Lift Settings**
Lift system related settings, including switch, data and calibration.
- ④ **Radar Settings**
Include switch of obstacle radar, Terrain radar, Obstacle Dist, Obstacle Avoidance Action and Radar Sensitivity.
- ⑤ **RTK Settings**
Include RTK Network, Station Custom and Status.
- ⑥ **Battery Settings**
Include Low power action, Alarm threshold value, and Battery information.
- ⑦ **Others**
Include Voice, Advanced, Camera settings.

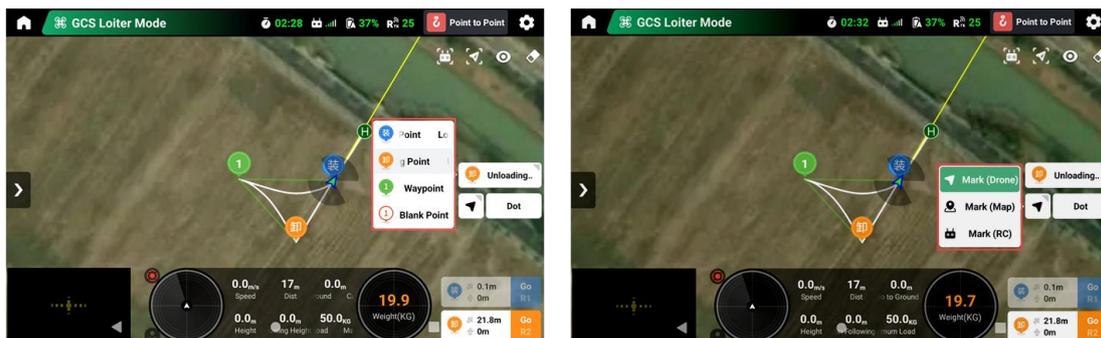
4.3 Lifting

4.3.1 Point-to-Point Mode

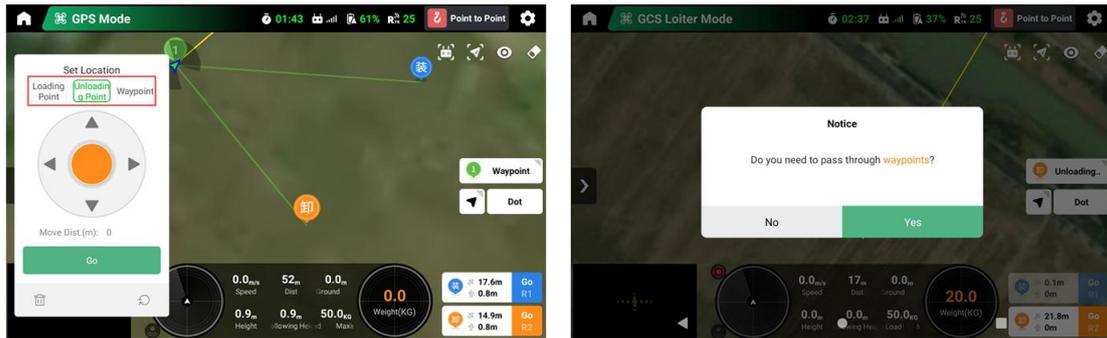
Open the app and ensure the mode is **Lifting** 

Tap the **Loading Point icon** to choose the point type: Loading Point, Unloading Point, Waypoint, or Blank Point.

Point marking can be done via Drone, Map, or Remote Controller. Drone marking is recommended for lifting operations.

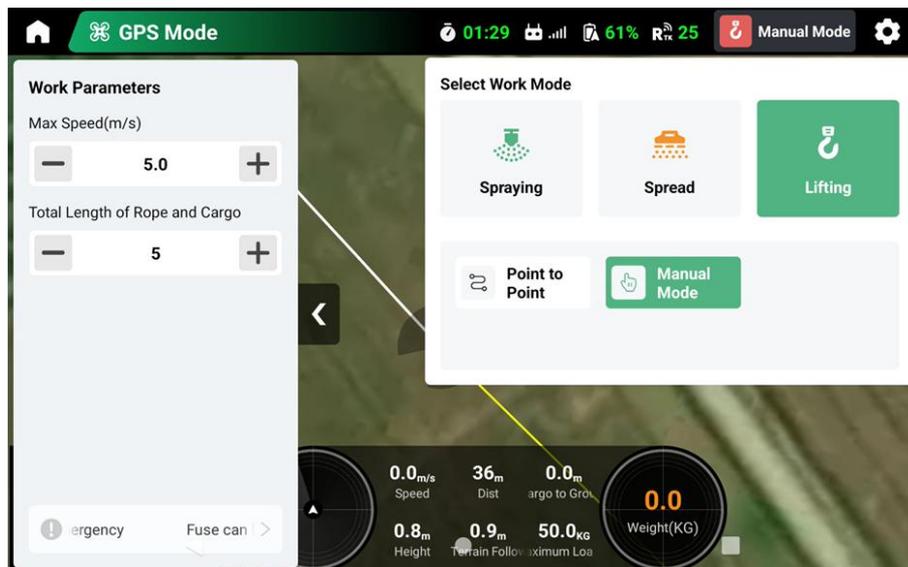


In Point-to-Point mode, you can mark Loading Point, Unloading Point, and Waypoint as needed. After marking, the bottom-right corner displays each point's altitude and the drone's horizontal distance to it. Selecting a point allows you to change its type, move it, or delete it. Tap **Go**: if waypoints exist, you can choose to go through it or go directly to the target. If no waypoints exist, the drone flies straight to the target. During flight, the drone automatically climbs or descends based on target point's altitude.



4.3.2 Manual Mode

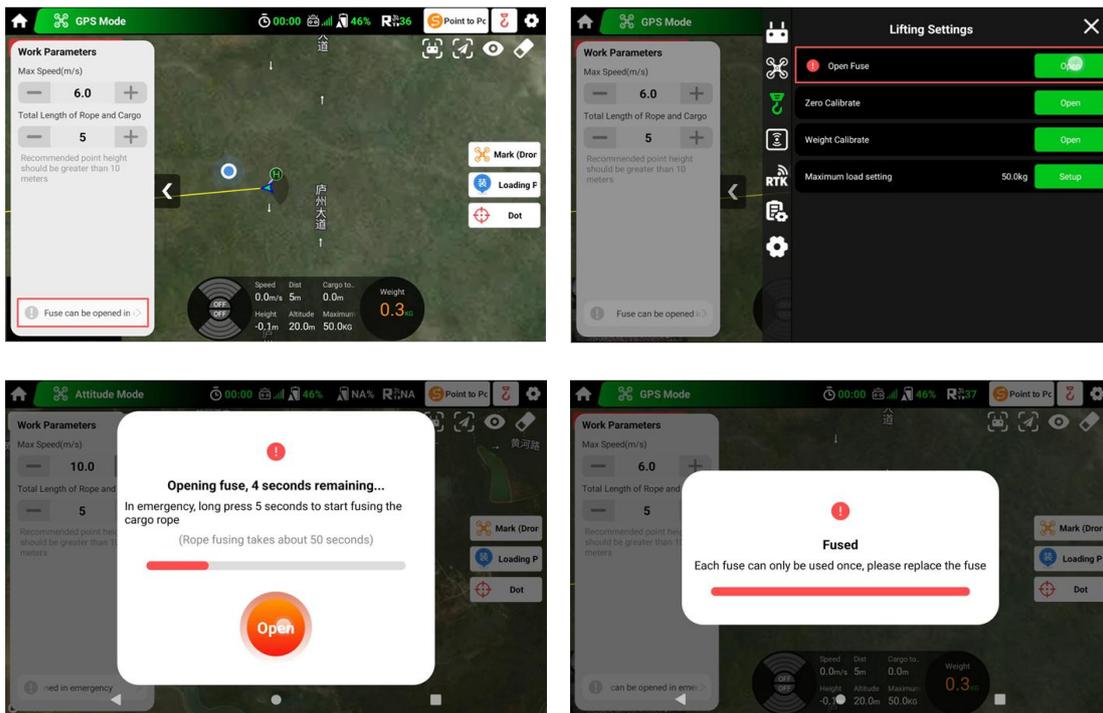
- Step 1. In the Operation page, select **Lifting Manual Mode**, and set the Max flight speed, Total length of rope and cargo .
- Step 2. Use the joysticks to manually operate the drone and complete the lifting operation.



4.4 Emergency Fuse

If the load gets stuck on trees or rocks and the drone cannot free itself, you can activate the fuse to cut off the rope and allowing the drone to return safely.

The fuse can be activated from the bottom-left corner of the operation page or in the **Lifting Settings**.

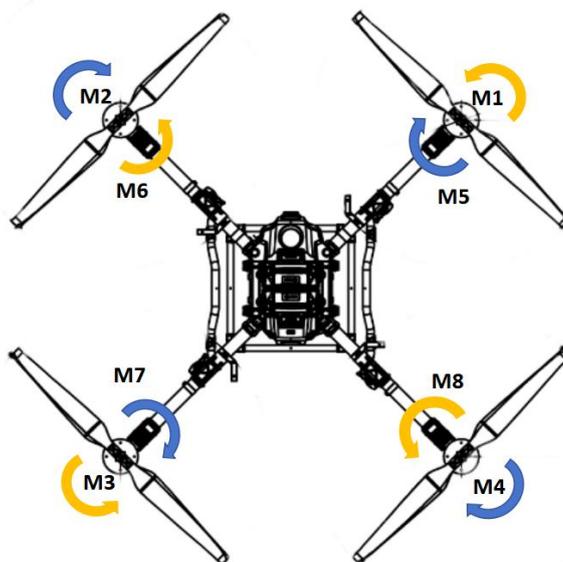


*The fuse is recommended for single use only and should be replaced promptly after activation.

4.5 Indicator Light Instruction

4.5.1 Motor Indicator Light

Drone arms M1 - M8 have LED lights. M1,M2,M5 and M6 red LEDs light up to indicate the nose direction. M3,M4,M7 and M8 green LEDs light up to indicate the tail direction



Flashing color	Meaning	Solution
1 Short flash	Over voltage	Replace the battery (below 81V)
2 Short flashes (continuous)	Under voltage	Replace the battery (above 24V)
3 Short flashes (continuous)	Over current	Re-power on and check if any foreign object in the motor - Contact after-sales.
1 Single long flash (continuous)	Throttle lost	- Check the signal cable connection - Check if the remote control and flight control are turned on - Check the resistance of the black and white cables. If short circuit, contact after-sales.
Continuous (1 long flash + 1 short flash)	Throttle is not zeroed.	If occurs when motors rotating. Please check if any short circuit on the battery and cables.
Continuous (1 long flash + 2 short flashes)	MOS over-temp (over 110°C)	Re-power on after the motor cover cooled down.
Continuous (1 long flash + 3 short flashes)	Capacitor over-temp (over 110°C)	Re-power on after the motor cover cooled down.
Continuous (1 long flash + 4 short flashes)	Triggering stall protection	- Restart after the throttle zeroed. - Check if any foreign object in the motor, remove it before restarting.
Continuous (2 long flashes)	Hardware protection, open circuit in the high-side bridge.	-Check if the motor cables are intact. -Contact after-sales.
Continuous (2 long flashes + 1 short flash)	Hardware protection, open circuit in the high-side bridge.	-Check if the motors are intact.
Continuous (2 long flashes + 2 short flashes)	Motor phase loss and wire breakage.	-Contact after-sales.
Continuous (2 long flashes + 3 short flashes)	ESC fault, A phase op amp abnormality	If the fault persists after multiple power-ups, please contact after-sales.
Continuous (2 long flashes + 4 short flashes)	ESC fault, B phase op amp abnormality	
Continuous (3 long flashes)	ESC fault, C phase op amp abnormality	

4.5.2 Battery indicator light

RGB light Signals					
Status	R	G	B	Color	
Normal		1		Green	
Protection	1	1		Yellow	
Alert	1	1	1	White	
Permanent Failure 1	1			Red	
Self-discharge state/balanced state		1	1	Blue	

Short press the switch button, the indicator light will display the battery status.

RGB green LED: The green LED is always on, and the white LED flashes to show SOC. In this state, the battery is normal (charging, discharging, after the communication connection button is pressed)

RGB yellow LED: The battery is in a protected state and can be reused after meeting protection release conditions.

RGB white LED: The battery is in alarm state.

RGB red LED: The battery SOH service life has expired.

RGB blue LED: The blue LED is always on, the battery is in self-discharge state or balanced state.

Power-off state: short press + long press 2S to power on.

Power-on state: Short press + long press to power off.

4.6 Battery Instructions

Install the battery, first short press and then long press the power button to turn it on. After the flight, when the propellers stop, short press and then long press to turn off the battery, and then disconnect it from the drone.

Before each flight, ensure the battery power is above 95%. If it alarms for low battery, land and stop flying as soon as possible, replace the battery before next operation.



Battery Precaution:

- *Do not charge the battery if it is damaged, swollen, or leaking.
- *Stop using when the cell temperature is higher than 60°C.
- *Please charge the battery within 0 - 75°C ambient temp.
- *Do not store the battery in direct sunlight, rain, or a humid environment.
- *If unused long, charge and discharge the battery every 2 months for activation.
- *If the battery light is red, the battery cannot be used any more.



Battery spontaneous combustion precautions:

- * Immediately keep the battery away from flammable materials, place it in an open area or throw it into water;
- * Battery combustion may produce harmful gases or release toxic chemicals.
- * Please ensure personnel safety and handle the accident properly

Battery storage:

- 1) The battery storage temperature must be within -20~35°C;
- 2) For long-term battery storage (more than 3 months), keep in an environment at 23 ± 5°C and 75 ≤ %RH.
- 3) The storage voltage is 67.5V~70.2V(cell 3.75~3.9V), and full-charge storage is prohibited.

4.7 Charger Instructions

4.7.1 Charger Interface



Button	Mode	Function
Power+	Short press	Increase power
	Long press	Switch charging mode (standard/fast charge)
Power-	Short press	Reduce power
Stop	Short press	For checking cell voltage
	Long press	For setting

4.7.2 Charger Usage

Connect one end of the power cord to the charger's AC input and the other to the power socket. Short press the switch. The charger screen shows the boot interface and switches to the main page in about 3 seconds.

Connect the Smart battery

The battery is connected to the charger. If communication is successful, the icon on the main interface

turns yellow. There is no need to set the charging current — the system automatically matches the optimal charging parameters. When the countdown ends, smart charging starts automatically. If you need to pause charging, press and hold the pause button to stop. Press and hold it again to resume charging.

Optional Standard/Fast-charging modes.

Standard mode: Charging stops when the SOC reaches 100%.

Fast mode: Charging stops when the SOC reaches 96%.



*High current and temperature during charging. For safety, do not touch charger output port and cord directly. Do not unplug battery directly, long press Pause button and then unplug it.

*The charger can be connected to two batteries at the same time. When one battery is fully charged, it will automatically charge the other battery. (Cannot be charged at the same time)

5 Maintenance

5.1 Drone Maintenance

After the operations, the drone needs to be maintained and cleaned.

- Step 1: Power off the drone, then rinse the outer cover with water. After rinsing, wipe it clean with a damp cloth.
- Step2: Clean the frame, motors, propellers, camera, front and rear radars, and terrain-following radar to prevent dust buildup. At the same time, check that all the screws are secure and not loose. If any parts or related cable show deformation, damage, or corrosion, replace them promptly.
- Step3: Finally, ensure the drone is completely dry and free of water residue to complete the maintenance.

5.2 Battery Maintenance

If the battery plug is oxidized and blackened, clean and maintain it promptly.

- Step1: prepare the tools : 75% or 95% alcohol, wooden sticks, tweezers, cotton swabs, lint-free cloth.
- Step2: Pour alcohol into a cup. Dip a cotton swab and clean each copper plate on the battery plug until the black stains are removed.
- Step3: Further clean with lint-free cloth. Soak the cloth in alcohol, then use a flat wooden stick to insert the cloth into the gaps between the copper plates. Ensure each copper plate and gap is thoroughly cleaned and dry before using;



*If any burn marks exist on plugs of the drone and the battery, replace damaged plugs promptly.

*If copper sheets beside battery plug holes are slightly deformed, use tweezers to restore. If severely deformed, replace battery plugs.

5.3 Updates

Users can upgrade the firmwares of flight control, remote control, etc. in EFT Flight Assistant APP. The steps are as follows:

- Step 1: Turn on and connect the remote control and the drone.
- Step 2: If a new firmware needs upgrading, a yellow dot will appear at the Device in the APP. Open it and tap Aircraft to enter the upgrade page.
- Step 3: Click green **Upgrade** and complete the firmware upgrade according to the page prompts.

Device

Controller

Serial(SN): —
Firmware Version: 0

Aircraft

Serial(SN): 923130073
Firmware Version: 250929

Battery

Serial(SN): H250210014900
Firmware Version: 0

RTK Locator

Serial(SN): —
Firmware Version: 0

Seeder

Serial(SN): —
Firmware Version: 0

Ground Station

Serial(SN): —
Firmware Version: 0

Aircraft

Name	SN	Activation Time	Version	
FC	923130073	—	FMU 250929 PMU 250905	Upgrade
F-Radar	—	—	E10V240905	Upgrade
B-Radar	—	—	E20V250106	Upgrade
Terrain Radar	radar_1	—	EB00240410	Upgrade
Pump 1	—	—	—	Upgrade
Pump 2	—	—	—	Upgrade
Centrifugal nozzle 1	—	—	—	Upgrade
Centrifugal nozzle 2	—	—	—	Upgrade

6 Specifications and Appendix

6.1 Specifications

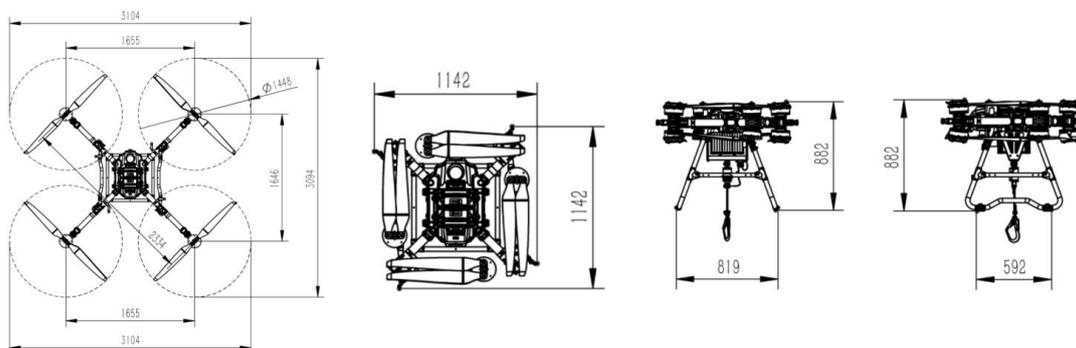
Specifications

D100	Parameters
Weight (without battery)	58.5kg
Weight (with battery)	90.9kg
Max Payload	100kg
Wheelbase	2334mm
Unfolded Size	3094*3104*892mm
Folded Size	1142*1142*882mm
Working Temp	0-40°C

* The weight parameters vary by ± 1 kg according to the configuration and craft.

* Size parameters vary by ± 1 cm.

Dimensions



6.2 Disclaimer

Delivery Drone Disclaimer

Dear User,

Before using this delivery drone product, please read and fully understand this Disclaimer. Use of this delivery drone indicates that you have fully accepted and agreed to all the terms of this statement.

I. Operational Qualifications and Training

This drone is intended for use only by personnel who have received professional training and possess the appropriate operational qualifications. Users are solely responsible for obtaining and maintaining all legally required certifications and compliance. Any consequences arising from failure to comply with relevant regulations, including but not limited to legal liabilities, fines, personal injury, or property damage, shall be borne solely by the user. The Company assumes no responsibility.

II. Flight Environment and Restrictions

The user is responsible for operating the drone in a lawful, safe, and suitable flight environment. Do not fly in no-fly or restricted areas (airports, military zones, crowded areas, sensitive sites) or in bad weather (strong wind, heavy rain, lightning, fog). The user is fully responsible for any accidents or legal issues caused by violations. Any accidents, disputes, or legal liabilities resulting from violations of these requirements shall be the sole responsibility of the user.

Users must fully understand and comply with all requirements and restrictions imposed by local aviation authorities and applicable laws and regulations. The company shall not be liable for any adverse consequences arising from the user's lack of knowledge of, or violation of, such rules.

III. Equipment Inspection and Maintenance

Users shall strictly follow the requirements of this User Manual and conduct comprehensive and careful inspections and maintenance of the drone and related equipment before, during, and after each flight to ensure that the equipment remains in good working condition. Any equipment failure, flight accident, or other adverse consequence caused by failure to fulfill these obligations shall be the sole responsibility of the user.

For equipment damage or failure resulting from natural aging, wear and tear, or force majeure, the company will provide repair or replacement services in accordance with applicable warranty terms. However, the company shall not be liable for any indirect losses resulting therefrom, including but not limited to agricultural production losses caused by operational delays or third-party claims arising from equipment failure.

IV. Data Security and Privacy

All data generated during the use of the delivery drone (including but not limited to flight trajectory data, operational data, and image data) shall be stored, used, transmitted, and protected solely at the user's responsibility. Users shall take necessary security measures to prevent data loss, leakage, or unauthorized use. The company assumes no responsibility for any losses or legal disputes arising from data security issues.

The company shall not be liable for any privacy infringement or related issues that may arise during data collection. Users must ensure that their data collection activities comply with applicable laws, regulations, and ethical standards.

V. Accidents and Losses

Although safety has been fully considered in the design and manufacturing of this delivery drone, drone flight inherently involves certain risks. Accidents such as crashes, collisions, or loss of control may still occur during use. Users shall purchase and maintain adequate insurance coverage (including but not limited to third-party liability insurance and equipment property insurance) to cover potential risks and losses. Any losses exceeding insurance coverage, or resulting from failure to obtain adequate insurance, shall be borne by the user.

The company is not liable for any damages or losses—direct, indirect, incidental, special, or punitive—arising from the use of the drone, including personal injury, property damage, data loss, or reputational harm, even if the company was aware of the potential for such damages..

VI. After-Sales Service

The company's after-sales service is limited to hardware failures occurring under normal use.. Services include, but are not limited to, repair or replacement of defective components and necessary technical support and consultation during the warranty period.

Applications for after-sales service must follow the company policy. Users shall contact customer service upon discovering a product fault and provide relevant informations as instructed, such as fault descriptions, product serial numbers, and proof of purchase.

For products beyond the warranty period, damage caused by user actions (such as collisions, water ingress, or unauthorized modifications), or failures caused by force majeure, the company reserves the right to refuse free after-sales service or to charge reasonable fees based on actual circumstances.

After-sales response times and repair durations depend on the complexity of the issue and parts availability. While the company will make reasonable efforts to complete repairs timely , no guarantee is made to resolve all issues within a specific timeframe. The company is not liable for any delays or inconveniences resulting from the after-sales service process.

VII. Governing Law and Dispute Resolution

This Disclaimer shall be governed by the laws of the People's Republic of China. Any dispute arising from this Disclaimer or the use of the delivery drone shall first be resolved through friendly negotiation. If negotiation fails, either party may bring a lawsuit before a competent People's Court with jurisdiction. Please confirm once again that you fully understand and accept all terms of this disclaimer before using this delivery drone product. If you have any questions regarding any provision of this statement, please consult the company's customer service or a professional legal advisor before use.

EFT Electronic Technology Co.,Ltd.

2026/1/1

Thank you for reading this manual.
For any questions or suggestions,
please contact official after-sales.



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