

Washing Drone-X

User manual

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Contents

1. Information about the user manual	
1.1 Designations	4
1.2 Before the First Flight	4
1.3 “QGroundControl” download	4
2. Product information	
2.1 Foreword	6
2.2 Overview	7
2.2.1 Unmanned Aerial Vehicle (UAV)	7
2.2.2 “iRemote-1” radio control	8
3. Safety	
3.1 First Step	11
3.2 UAV Responsibility and operation	11
3.3 Flight restrictions	11
3.4 Flight altitude and control range	14
3.5 Flight environment requirements	14
4. Operating instructions	
4.1 Pre-operation procedures	17
4.2 UAV flight preparation	18
4.2.1 Unmanned Aerial Vehicle (UAV)	18
4.2.2 “SIYI MK-15” remote controller	19
Control System	
5.1 “SIYI MK-15” indicator lights	22
5.2 Telemetry	22
5.3 Flight modes	23
5.4 Return-to-home function	23
5. Battery and charging device	
6.1 Battery and storage guidelines	25
6.2 Charging device and charging guidelines	26
6. Software	
7.1 Interface	28
7.2 Compass calibration	30

7.3 Automatic takeoff and landing	32
7.4 Manual takeoff and landing	32
7. Camera and LiDAR	
8.1 Camera	34
8.2 LiDAR system	34
8. Accessories	
9.1 Black box	36
9.2 Propellers	36
9.2 "RemoteID" system	37
9.3 Checklist	38
9.4 Technical specifications	39
9.5 Delivery kit	40
9.6 Contact information	41

Information about the user manual

Designations

⊘ Warning

⚠ Important

💡 Tip

Read before the first flight

Read the following documents before using **Washing Drone-X**:

1. Delivery kit
2. Safety guidelines
3. Pre-flight inspection procedures
4. Warranty and service guidelines (provided separately)

“QGroundControl” install and setup

Use this software during flight to stay connected with Washing Drone-X. You can download the latest versions here (scan the QR code):

Windows OC



Mac OC



Android OC



** If the software is not used, according to safety guidelines, the flight altitude must not exceed 30 m and the flight distance must not exceed 20 m.*

⚠ Operating temperature of Washing Drone-X: -10 ... +50 °C. Pay attention to the ambient temperature and weather conditions while operating.

Product information

This section contains information about the drone's components and control system.

Product information

Foreword

Washing Drone-X is equipped with altitude, angle, and position sensors. This allows the drone to automatically maintain a stable flight at the altitude selected by the operator

Thanks to the iRemote-1 (SIYI MK-15) module, which can be integrated into the control system, the drone can be operated from distances of up to 12 km.

Thanks to its specially developed software and structural design, various camera models, payloads, and stabilization systems can be integrated into the UAV.

The drone's maximum flight speed is 25 km/h, and the flight time is 35 minutes. The control system's power reserve lasts up to 2 hours.

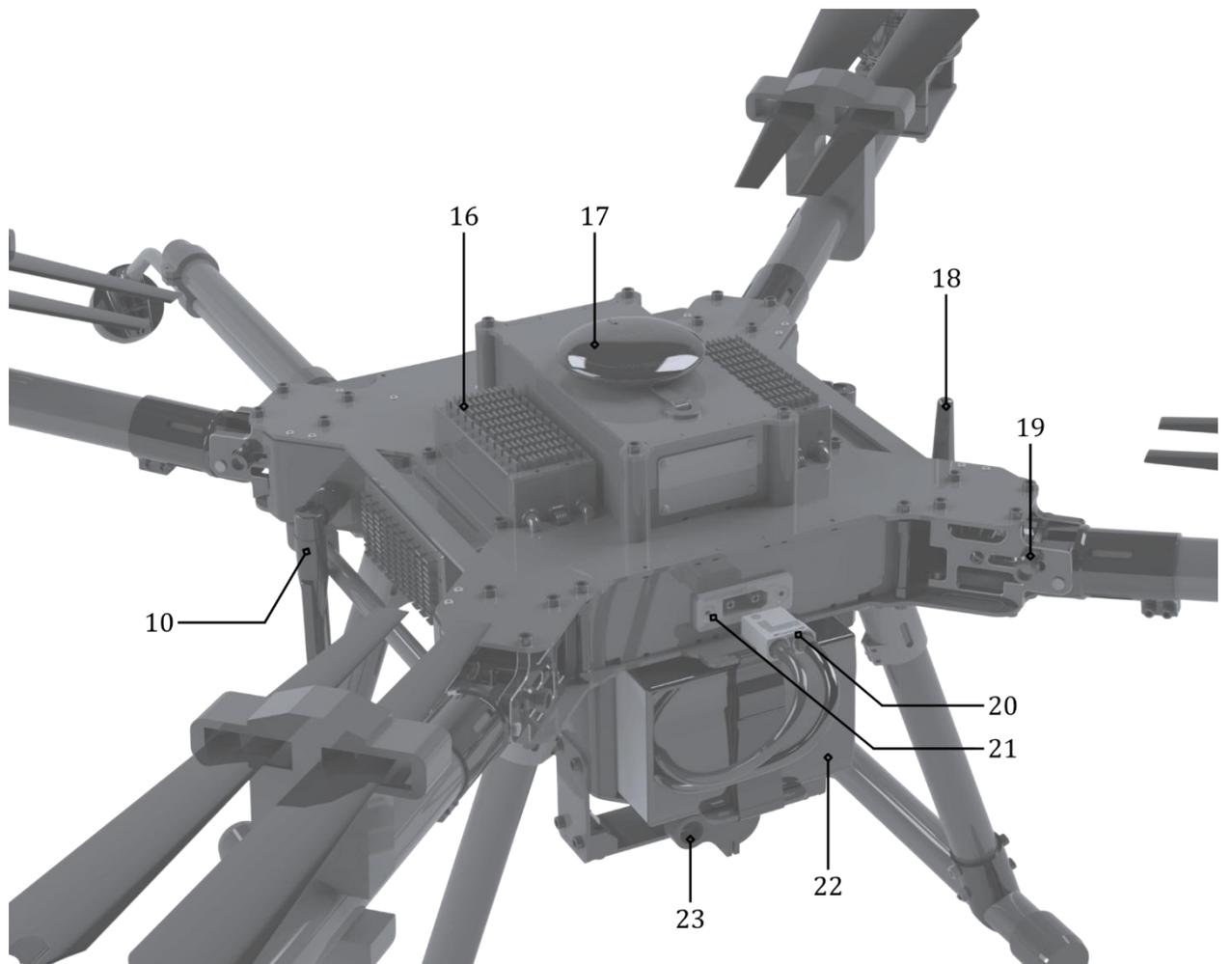
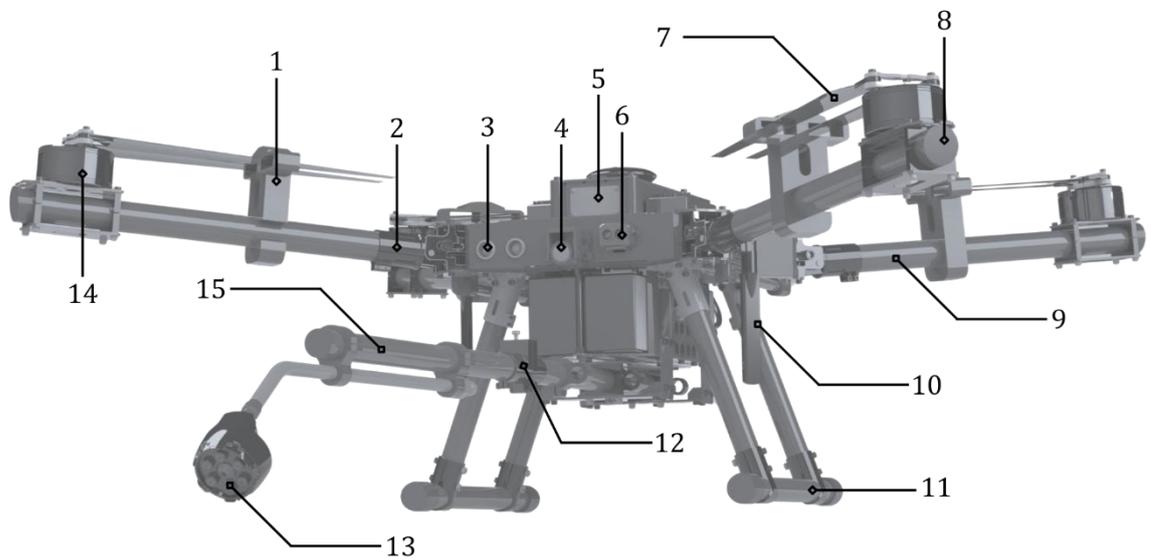
Under the WashingD LLC brand, Washing Drone-X, EVO-600 Mapping, VTOL, NF-010 Plane, and other UAV models can be custom-built. These drones can be equipped with various multispectral cameras, magnetometers, 2D and 3D scanners to create aerial orthophotos and 3D models of the terrain, as well as to perform vegetation and soil analyses.



The maximum flight time is achieved in windless conditions at a UAV flight speed of 25 km/h. The maximum flight distance is achieved in open areas, free of power lines, at a flight altitude of 120 m. The use of the drone around military and specially protected facilities is prohibited. Otherwise, control failure may occur, potentially causing a crash.

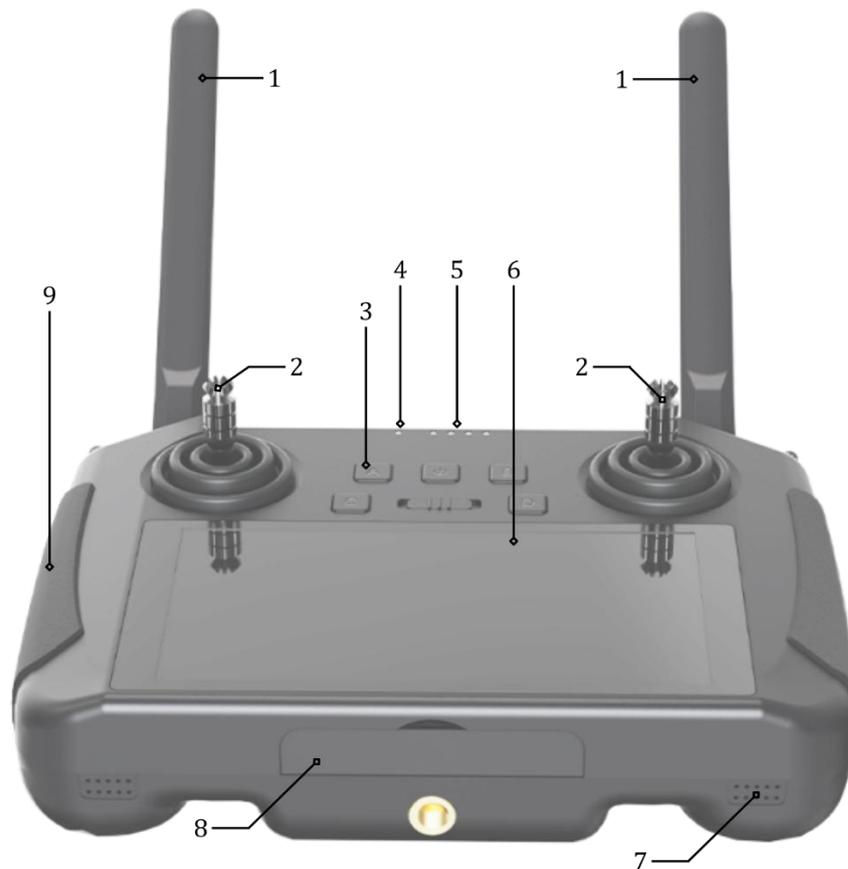
Overview

Unmanned Aerial Vehicle

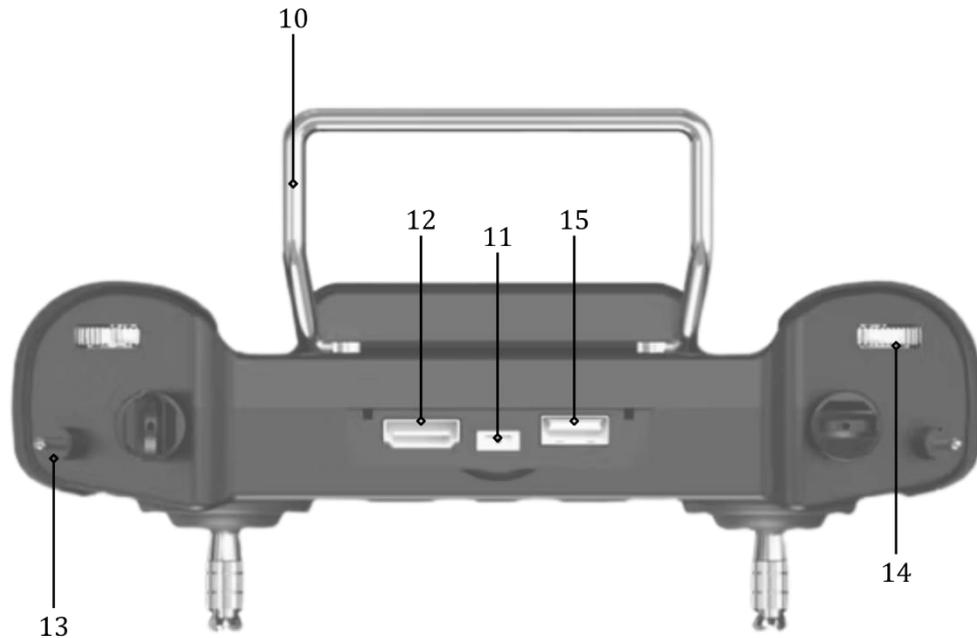


1. Propeller guard ring
2. Folding arm mechanism
3. Front sonar sensor
4. Full HD camera
5. UAV registration mark
6. Front laser sensor
7. Propellers (22×6.5 inch)
8. Landing legs during folding
9. Carbon arms
10. Control antenna
11. Takeoff-landing legs
12. Folding “Yu-extender” mechanism
13. Spray nozzle
14. Motor
15. “Yu-extender” carbon arm
16. ESC
17. GPS system
18. Video transmitter
19. Folding mechanism switch
20. Battery connector
21. Power connector
22. Batareya
23. Hose holder

“SIYI MK-15” Remote control



Before flight, check the battery of the SIYI MK-15 control system.



1. Control system antennas
2. Control sticks (mode 2)
3. Functional buttons
4. Signal indicator
5. LED indicator
6. Sensor panel (Android tablet)
7. Audio speakers
8. Additional ports:
 - a. SIM slot (micro standard)
 - b. SD card slot (micro standard)
 - c. USB Type-c (charge)
 - d. USB UART port
9. Rubber grips
10. Metal handle
11. UART telemetry port
12. HDMI out (video out)
13. Flight modes switch
14. Trim switch
15. USB input (USB flash)

Safety

This section is intended to familiarize you with the UAV's safety guidelines.

First step

After acquiring this drone and completing a UAV operator course, it is recommended to practice and improve your control skills in a pre-approved area under favorable weather conditions. The operation and flight of the UAV must strictly comply with the established rules, as well as altitude and distance limitations, in accordance with the legislation of Guangzhou, China

UAV responsibility and operation

To prevent serious injury and property damage, these rules must not be violated:

1. Ensure that you are not under the influence of anesthesia, alcohol, or drugs, and that you are not experiencing dizziness, fatigue, nausea, or other similar conditions. These factors can negatively affect your ability to safely operate the UAV.
2. After the flight, first turn off the UAV, and then turn off the SIYI MK-15 remote controller.
3. Never release, drop, or direct hazardous payloads toward buildings, people, or animals. Doing so may cause injury or property damage.
4. Do not use a UAV that has crashed, is damaged, or is in unsatisfactory technical condition.
5. Ensure that you have received adequate training and have contingency plans in place for emergencies.
6. Ensure that you have a flight plan. Do not operate the UAV irresponsibly.
7. When using the camera, respect the privacy of others. Comply with local laws, privacy regulations, and ethical standards.
8. This drone is intended for washing and cleaning operations.
9. Modifying the product's structure or using it for purposes other than its intended use, or for illegal activities (such as espionage, military operations, unauthorized surveys, etc.), is strictly prohibited.

10. Do not use this product to harass, threaten, stalk, intimidate, or violate the privacy and personal rights of others.
11. Do not enter the private property of others without permission.

Flight restrictions

To protect the airspace and public safety of **Guangzhou, China**, UAV flights are regulated based on the **GEO Zone** principle. These zones indicate areas where flights are prohibited, require authorization, or are allowed with restrictions.

1. Prohibited zones

Flights are strictly prohibited in the following areas:

- Near airports and airfields;
- Military and strategic facilities;
- Specially protected zones related to state security;
- Areas with large gatherings of people and event venues.

2. Restricted zones

Flights in these zones are permitted only after obtaining special authorization from the relevant government authorities.

- A validated authorization document is required before the flight.
- The UAV operator must keep the document confirming the authorization on hand.

 Flying a UAV in these zones without a special government authorization is considered a legal violation, and in such cases, the operator or the responsible company may be fined administratively or subjected to other sanctions.

● 3. Warning zones

Flights are permitted in these areas, but the operator receives a warning and must exercise caution.

- Flight altitude should be minimized, and approaching sensitive objects should be avoided.
- The flight is conducted under the full responsibility of the operator.

● 4. Permitted zones

No additional authorization is required to fly in these zones, but the operator must comply with the following general rules:

- Do not exceed the established maximum flight altitude;
- Do not approach prohibited objects;
- Do not interfere with air traffic.

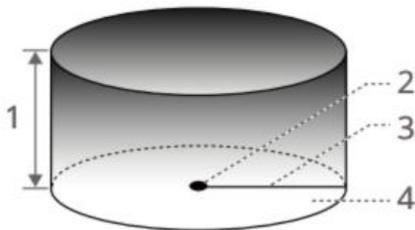
⊘ **IMPORTANT NOTE!**

- Always check the **GEO Zone map** through official sources before the flight.
- Violating flight rules in prohibited and restricted zones may result in administrative or criminal liability.
- All flights must be conducted in accordance with the relevant legislation of Guangzhou, China and civil aviation regulations.

Flight altitude and control distance

The UAV's flight altitude and control distance are regulated in accordance with the current legislation of Guangzhou, China and civil aviation rules.

- The maximum flight altitude is only permitted up to the limit established by the government.
- Exceeding the limit approved by legislation is prohibited and may result in administrative liability for the operator and the company.
- Flights must be conducted only within direct visual line of sight (VLOS).
- Additional authorization and registration may be required for beyond visual line of sight (BVLOS) operations.
- Compliance with GEO Zones and other restrictions is mandatory.



1. Maximum flight altitude
2. Home point (Take-off)
3. Maximum control distance
4. Buffer zone

Flight condition requirements

1. **Do NOT** operate the UAV in adverse weather conditions, including strong wind, snow, fog, rain, or lightning. Flights in rainy conditions are only allowed if the IP rating requirements specified by the manufacturer are fully met.
2. Conduct flights only in open and obstacle-free areas. Tall buildings and large metal structures can negatively affect the accuracy of the onboard compass and GNSS system. Before takeoff, ensure that the “home point” is correctly set. If takeoff occurs near buildings or other obstacles, the accuracy of the home point cannot be guaranteed. In this case, carefully monitor the aircraft's position during automatic return-to-

home (RTL) and it is recommended to perform the landing manually.

3. Operate the aircraft within the visual line of sight (VLOS). Mountains, trees, and other obstacles can block GNSS signals. Beyond visual line of sight (BVLOS) flights are only allowed:
 - based on the aircraft's technical capabilities;
 - the pilot's knowledge and skills;
 - and operational safety management;

Keep away from obstacles, crowded areas, trees, and bodies of water. Flights near airports, highways, railway lines, and city centers are only permitted with official authorization.

4. At high altitudes, the performance of the aircraft and battery may decrease. Do not exceed the specified maximum altitude and operate the flight with caution.
5. The aircraft's braking distance varies depending on the flight altitude. As altitude increases, the braking distance also increases. Maintain sufficient distance for safe flight.
6. Do not launch the UAV from a moving vehicle.
7. When taking off in a desert or on a beach, take extra precautions to prevent sand and dust from entering the motor and body.
8. Do not fly near flocks of birds. This poses a danger to both the UAV and the birds. Collisions can damage the aircraft and may result in a crash.

Operating instruction

In this section, you will learn how to properly prepare the drone for flight.

Pre-flight preparations

Before using the UAV for the first time, carefully follow the steps below. This will ensure safety and help the device operate correctly.

1. Read the user manual thoroughly.

Familiarize yourself in advance with all UAV functions, safety guidelines, and technical specifications.

2. Inspect all components.

Ensure the integrity of the battery, propellers, connection cables, and control system. Do not use damaged or improperly installed components.

3. Fully charge the battery.

Before flight, fully charge the battery and check its power level in the control application.

4. Perform calibration.

Calibrate the compass, IMU, and GPS systems (if necessary). Before takeoff, ensure that the systems are stable and functioning accurately.

5. Conduct a test flight.

Perform a test flight in an open and obstacle-free area at low altitude. Check the control response, RTL (return-to-home) function, and stability.

6. Follow safe flight practices.

Ensure that there are no people, animals, or obstacles nearby.

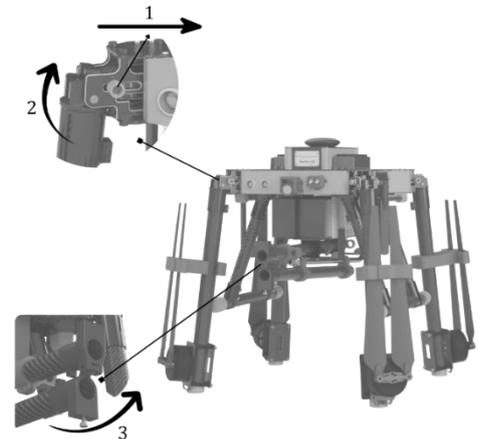


For initial flights and safety reasons, it is recommended to operate the UAV in GPS and semi-autonomous mode or using a pre-planned mission.

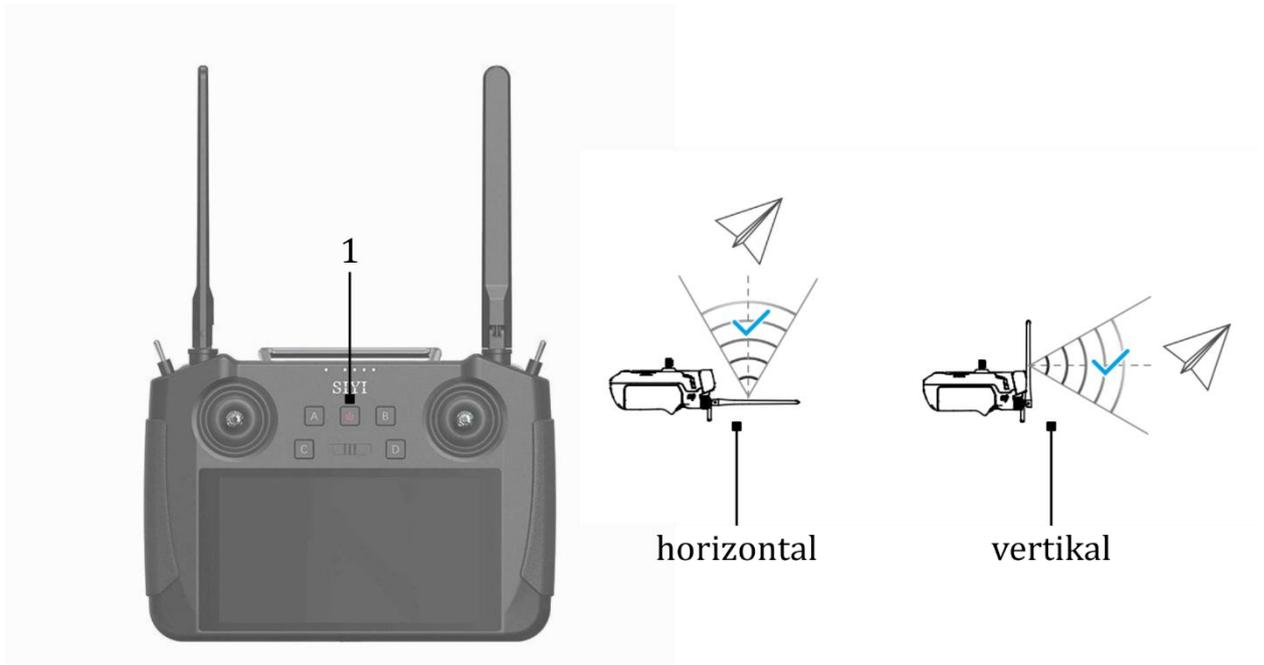
Preparing the UAV for flight

Before flight, remove the drone from the carrying case and place it on a flat, stable surface.

- Pull the red switch on the folding mechanism toward the frame;
 - Then unfold the drone's arm upwards (as shown in the illustration);
 - After fully unfolding the arm, ensure it is seated properly and the mechanism is locked.
 - Repeat this process for all arms in the same manner.
 - Remove the propeller guard rings.
 - Unfold the arm of the water-spraying mechanism (as shown in the illustration);
 - Open the camera cover;
Insert the battery into the drone's slot;
Unfold the propellers as shown in the illustration;
 - Connect the remote controller;
 - Connect the drone's battery to the power input;
- After the remote controller receives data from the UAV, make sure that everything is functioning properly.



Development of the SIYI MK-15 remote controller



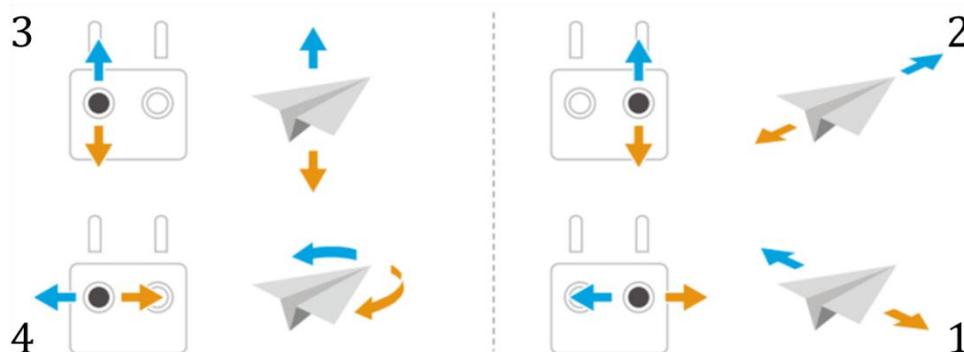
Before using the remote controller, it must be turned on.

- To do this, press and hold the power button (shown as number 1 in the figure) for a few seconds.
- Dipole-type antennas are designed for transmitting and receiving data due to their length.

For this reason, the antenna can be positioned in two main orientations:

- Horizontal** – if signal strength in altitude between the controller and the drone is important;
- Vertical** – if the drone needs to be sent to a longer distance.

Several control modes are available for the remote controller. They vary depending on the country. In our country, **Mode 2** is used.



1. To move the UAV to the right or left while in the air;
2. To move the UAV forward or backward while in the air;
3. To lift the UAV into the air or land it, as well as to change its altitude while in the air;
4. To rotate the UAV around its own axis while in the air;

For charging the remote controller, a **Type-C cable** with a **5V, 2-3A adapter** is used. The charging process is carried out only when the **SIYI MK-15 remote controller** is turned off.

 Use only the adapter supplied with the **SIYI MK-15**. Otherwise, the remote controller may be damaged.

Control system

Here, information about the remote controller indicators, telemetry data, and flight modes is provided.

SIYI MK-15 Light indicators

The **SIYI MK-15 remote controller** has four indicator lights that continuously display the battery level.

	92-100%
	76-91%
	63-75%
	51-62%
	38-50%
	26-37%
	13-25%
	0-12%

Additionally, there is an indicator that shows the signal strength between the remote controller and the drone. This indicator can display three different colors:

- **Green** – A stable connection with the drone exists; telemetry and control data are transmitted completely.
- **Yellow** – A connection exists but is unstable; there may be losses in telemetry and control data packets.
- **Red** – No connection with the drone; telemetry is not received.

Telemetry

Telemetry is the set of data transmitted to the remote controller while the drone is in flight. This data includes the drone's altitude, speed, GPS coordinates, battery level, distance, flight direction, and mission status.

Flight mode

The **Washing Drone-X UAV** has three flight modes:

1. **Loiter (Position)**

In this mode, the drone maintains the altitude and position set by the operator using GPS.

2. **Alt Hold (Altitude)**

In this mode, the drone maintains the altitude set by the operator relative to the ground.

3. **RTL (Return to Home)**

Return to Home function

The **Washing Drone-X** has been equipped with a **Return to Home (RTL)** function. This function activates when the connection with the drone is lost, the battery level is low, the mission is completed, or by the operator's command. In this mode, the drone heads toward the starting point at its current flight altitude and then begins descending automatically. Once the drone reaches the ground, the motors shut off automatically.

For safety purposes, an additional button is provided for the operator to manually turn off the motors after landing, and its use is recommended. During a flight controlled via the remote, the point where the motors are started is considered the **"EV" point**. In autonomous flight, the **"EV" point** is defined when the mission is created.



Due to magnetic and electrical interference, the drone's **Home point** during landing can shift by up to **1 meter**.

Battery and charger

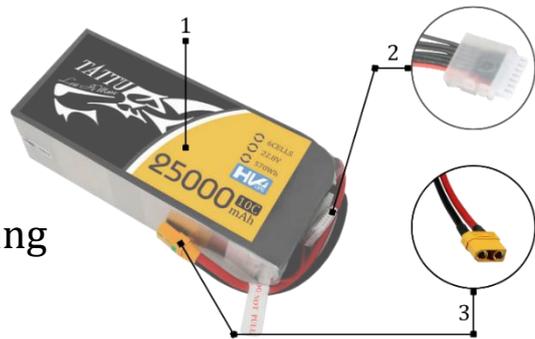
This section provides information about the battery, its proper charging, and storage guidelines.

Battery and its storage guidelines

The **Washing Drone-X** kit includes two Li-Po 6S 25,000 mAh batteries.

The battery has two types of outputs: **Balance** and **XT-90**

1. **Battery** (6S 25A)
2. **Balance output** (used during charging)
3. **XT-90 output** (used for powering the drone and charging)



The battery is sensitive to cold weather, which can reduce flight time. As the battery's energy level decreases, its resistance to wind also weakens. Care is advised during flight!

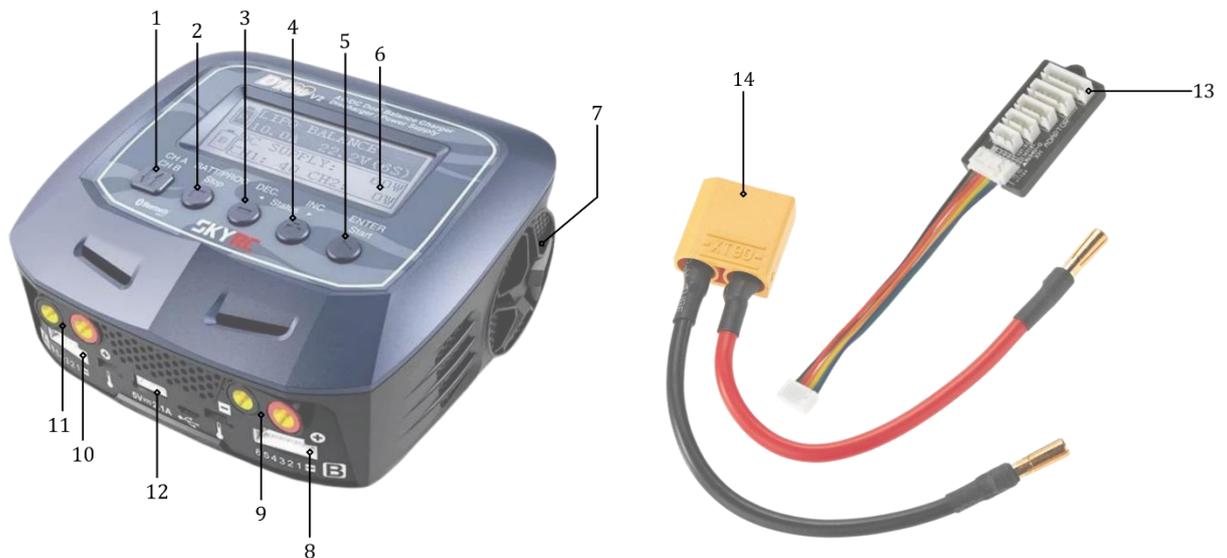
⚠ Important safety guidelines

- Do not use the battery if it is swollen, damaged, or overheated.
- Do not fully discharge or overcharge the battery.
- If the battery will not be used for a long time, store it at **50–60% charge** (storage mode).
- Charge only with the charger provided with the **Washing Drone-X**.
- Keep the battery away from moisture, direct sunlight, and high temperatures.
- Never leave the battery unattended while charging.
- Do not puncture, open, or modify the battery under any circumstances.
- At low temperatures, internal resistance increases, reducing flight time.
- It is recommended to warm the battery to **room temperature** before flight.

💡 The battery should be stored at **room temperature, between 20–22 °C**. Frequent temperature fluctuations can shorten the battery's lifespan.

Charger and charging guidelines

The **charger** is one of the most important components for the reliable and safe operation of the UAV.



- | | |
|--------------------------|------------------------------|
| 1. Port switch | 8. Balance input for B port |
| 2. STOP button | 9. Charge input for B port |
| 3. Decrease button (-) | 10. Balance input for A port |
| 4. Increase button (+) | 11. Charge input for A port |
| 5. START button | 12. USB charging output |
| 6. LCD display | 13. Balance port extender |
| 7. Cooling fan | 14. Charge port extender |

The charger has several operating modes:

1. **Balance Charge**

In this mode, all sections of the battery are charged to the same level. This extends the battery's lifespan and increases safety.

2. **Fast Charge**

In this mode, the battery charges in a shorter time. However, full balancing may not occur, so it is recommended to use this mode cautiously for daily use.

3. **Storage Mode**

The battery voltage is set to an optimal level (approximately 3.8V per cell) for long-term storage. This mode is ideal for batteries that will not be used for an extended period.

4. Discharge

This mode is used to gradually discharge the battery. It is suitable for battery calibration and maintenance.

It is possible to charge both batteries simultaneously.

After the battery is fully charged:

- The charging process will stop automatically;
- Then, press the **STOP** button to safely disconnect the battery from the charger.



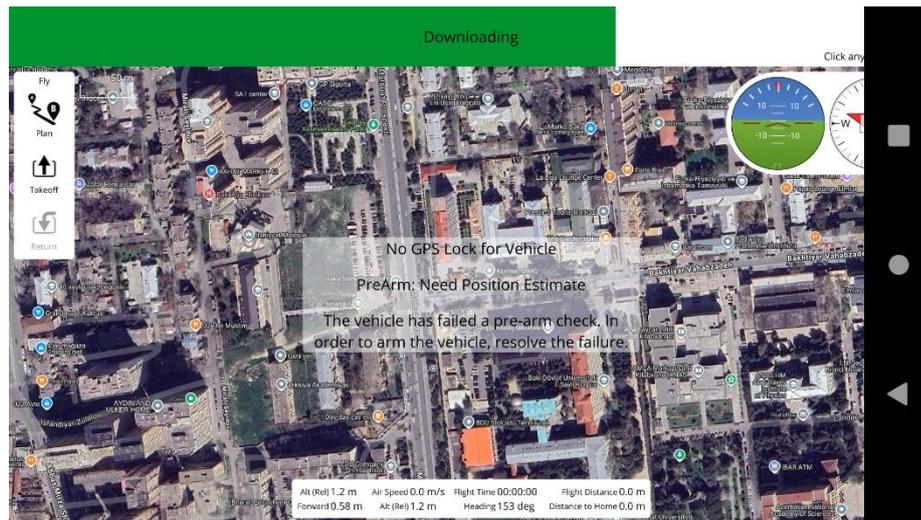
It is not recommended to keep the battery connected to the charger for an extended period after charging. Doing so can shorten the battery's lifespan.

Software

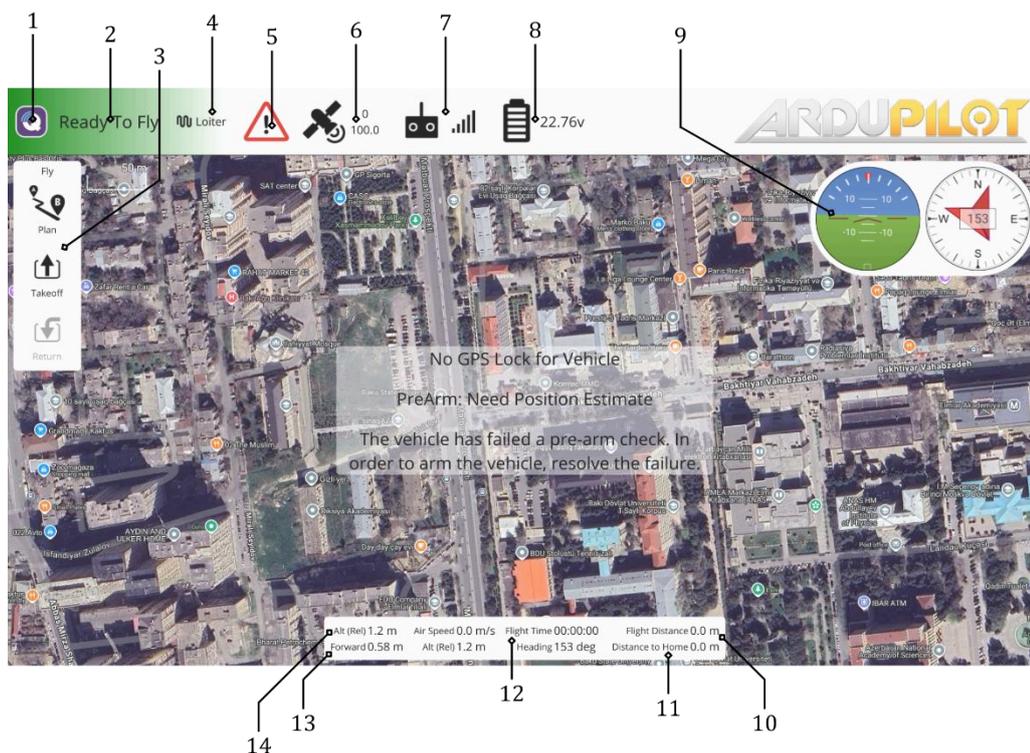
In this section, you will become familiar with the software interface, its functions, and the indicators displayed on the screen.

Interface

After opening the **QGroundControl** software, the map and the main interface of the program will appear. Once the UAV is connected, the system will initialize, and telemetry data from the drone will be transmitted to the **SIYI MK-15** remote controller. At the same time, as shown in the figure, the data loading process will begin. *Wait until the loading is complete.*



Once the data is fully loaded, the full program interface will appear. Through this interface, you can monitor flight information, view the drone's position on the map, and manage various parameters.



1. Access to additional settings
2. Flight status
3. Autonomous flight menu
4. Flight mode
5. Notifications
6. GPS and satellite information
7. Remote controller signal
8. Battery level
9. Horizon indicator
10. Flight distance
11. Distance to home
12. Flight time
13. Lidar distance
14. Flight altitude

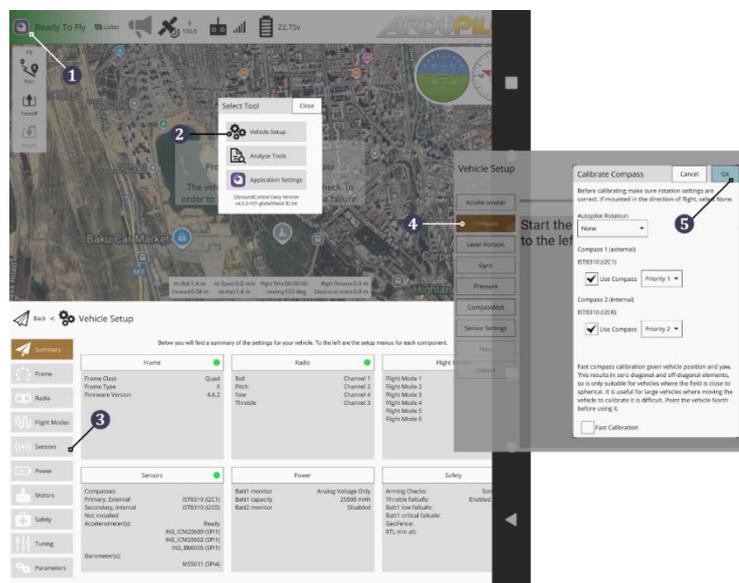
Once the GPS system determines the correct position, you will see the drone's location and orientation on the map.

Compass calibration

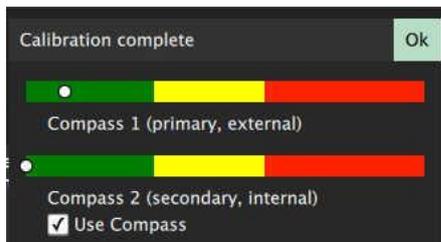
This is an essential procedure to ensure the UAV determines the correct direction during flight. During calibration, the UAV is rotated along various axes to allow the device to read the magnetic field accurately.

Recommendations:

- Perform calibration in an open area away from metal structures.
- There should be no strong magnetic fields or communication signals nearby.
- After calibration, the drone's orientation should appear accurately on the map and interface indicators.
- To start the calibration, you need to access the additional settings.



1. Open the additional settings window;
 2. Access the UAV's Settings;
 3. Go to the sensor section;
 4. From the displayed sensor list, select compass;
 5. Press **OK** to start the calibration process.
- Keep the drone in a horizontal position and rotate it **360° counterclockwise**.
 - Tilt the drone to the left and repeat the process.
 - Repeat the procedure in the following sequence: drone flat, tilted to the left, tilted to the right, camera facing down, camera facing up, and drone upside down.
 - The calibration status at the top of the screen will fill in **green**, and once fully completed, the next notification will appear:



If the white points are within the green area, the calibration was successful. If the points fall within the yellow or red areas, restart the drone and repeat the calibration process.

After completing the calibration, the drone must be restarted.



Depending on the drone's usage, it is recommended to perform calibration **every 2-3 months**. If there is a large distance between flight locations, calibration in the new area is advised.

Automatic takeoff and landing

The **Washing Drone-X** has an automatic takeoff and landing function. Using **IMU sensors** and GPS data, the drone can ascend to the altitude set by the operator and land either at the flight point or the starting point upon the operator's command.

To perform this, select "**Takeoff**" in the autonomous flight menu:

- Set the **takeoff altitude**;
- Start the **motors**;
- Slide the **START slider** to the right.

The drone will automatically take off. During the flight, always keep the **SIYI MK-15** remote controller in your hands and be ready to assist using the right-hand control sticks (channels 1 and 2) when the drone is landing.

Manual takeoff and landing

1. Select **Loiter (Position) mode**.
 2. Slowly push the **left control stick upward** (increase by 50%).
 3. Once the drone ascends to a certain altitude, return the left stick to the **center position (50%)**; the drone will maintain this altitude and position.
 4. Lower the left stick below 50% to begin landing, and after the drone fully lands, you can move the stick all the way down.
- The further you move the control stick above or below the 50% position, the faster the drone will move



During manual control, do not operate the drone with sudden or rapid movements. Always take into account **braking distance** and **safety guidelines**.

Camera and LiDAR

This section provides information about the camera, its features, and the lidar system.

Camera

The Washing Drone-X is equipped with a fixed front camera. The camera records in FHD 1080P. Additionally, upon request, the drone can be equipped with stabilization systems (gimbal), specialized cameras, and scanners for research purposes. The camera's field of view is directed toward the spraying system, and it transmits data via an analog signal to minimize the delay between the camera feed and the information delivered to the operator.

LiDAR system

The drone is equipped with a compact Lidar that measures the distance to objects with high accuracy.

- The Lidar is configured to prevent collisions with objects closer than 2 meters.
- The sensor's front must be clean and unobstructed.
- Small deviations in distance measurement may occur under strong sunlight.

The Lidar works by sending infrared laser beams and measuring the distance to an object based on the time delay. It is used to accurately determine distances in the air, making the operator's work easier. To enhance safety and provide an additional precautionary system, the Washing Drone-X is also equipped with a distance-measuring sonar sensor.

Appendices

This section provides information about the drone's technical specifications, black box system, and Remote ID.

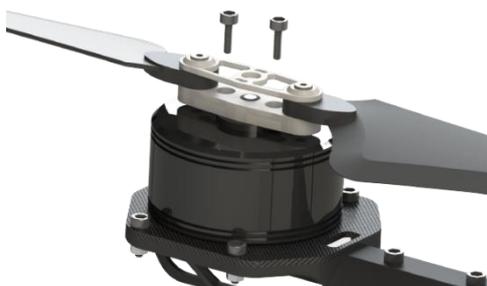
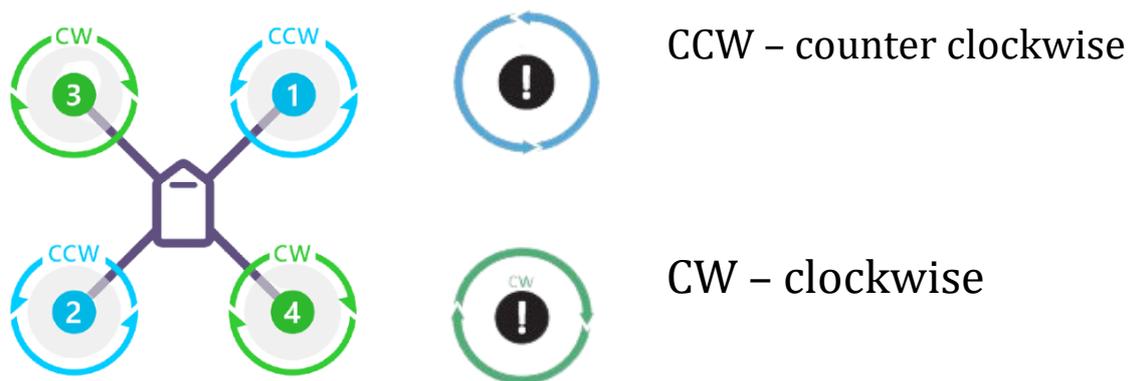
Black box

The drone's flight controllers are equipped with an SD card, which records data from every flight. In case of an accident or malfunction, specialists can use this data to determine the cause of the problem. Additionally, the Washing Drone-X is equipped with a black box microcontroller that processes data from all onboard sensors and detects erroneous signals.

In the event of a drone crash, specialists prepare a report based on the information stored in the black box and submit it to the service center as well as the warranty department.

Propellers

The drone is equipped with four foldable propellers:



* The propellers are attached to the motors using **two M3 bolts** each.

“Remote ID”

The **“Remote ID”** system is a technology that provides the drone’s identity and location to other aircraft, operators, and regulatory authorities during flight.

Main functions:

1. Transmits the drone’s identity

The operator or drone can be identified via a unique identification number (ID).

2. Shares position and speed

The drone’s current coordinates, altitude, and speed are transmitted based on GPS data.

3. Safety and monitoring

Ensures that other aircraft and control centers can track the drone’s position during flight.

4. Compliance and regulations

In many countries, the use of Remote ID is mandatory for drones.

Remote ID data includes:

- Unique drone ID number
- GPS coordinates (latitude, longitude)
- Altitude
- Speed and flight direction
- Limited information about the operator
- Takeoff point

Checklist

☑	Name	Note
	Propellers are correctly installed, with no cracks or damage	
	Motors rotate freely by hand, with no obstruction	
	Antennas and sensors are undamaged	
	Batteries are sufficiently charged	
	Battery contacts are clean, with no oxidation	
	Spare battery is ready (if needed)	
	Battery voltage checked via indicator	
	GPS is functioning, with $\geq 10-12$ satellites	
	Compass checked and calibrated if necessary	
	Connection with the remote controller verified	
	Remote ID is active	
	LiDAR/ultrasonic sensors checked	
	Camera cover removed and checked	
	Telemetry and data verified	
	Flight area map reviewed	
	All control sticks and switches on the remote work properly	
	Motors tested with a short spin	
	Flight modes (Loiter, Alt Hold, Manual) checked	
	RTL (Return to Home) function verified	
	Wind and weather conditions assessed	
	Flight area selected, with people at a safe distance	
	Relevant authorities notified	
	Takeoff point is clear and on a level surface	
	Safe takeoff altitude set	
	All equipment in place	

Note:

 After each flight, the drone must be **maintained and cleaned of dust**. Pay special attention to the motors and do not leave them dusty, as this can cause them to fail prematurely.

Technical specifications

Washing Drone-X

- Weight (total): 5.5 kg
- Dimensions (folded): L: 420 mm, W: 410 mm, H: 410 mm
- Maximum takeoff altitude: 120 m
- Maximum ascent speed: 5 m/s
- Maximum descent speed: 3 m/s
- Maximum flight time: 35 minutes
- Wind resistance: 12 m/s
- Remote controller operating time: 120 minutes
- Maximum transmission range: 12 km
- Operating temperature: -10°...+50° C
- Satellite navigation systems: GPS, GLONASS, BeiDou, Galileo
- Positioning accuracy: 1–2 cm
- Operating frequency: 2.4 GHz
- Battery capacity: 6S 25,000 mAh
- Black box (SD card) capacity: 32 GB

Purpose: Washing (Cleaning)

Water Hose:

- Material: polyurethane
- Length: 150 meters
- Weight when fully extended: 4.5 kg
- Outer diameter: 8 mm
- Inner diameter: 6 mm
- Maximum operating pressure: 10 bar
- Operating temperature: -20°...+50° C
- Adjustable nozzle angles: 0° / 15° / 25° / 40°
- Nozzles: foam application nozzle
- Spray range: 600 mm

Delaveri kit

Check	Name	Unit
	Washing Drone-X	1
	6S 25000 mAh battery	2
	SIYI MK-15 radio control	1
	Battery charger	1
	Polyurethane hose (150 m)	1
	Spray nozzle *	5
	Water pump *	1
	Carrying case	1
	7-inch monitor *	1
	22×6.5 inch propellers *	3

Spray Nozzle: adjustable angles $0^\circ / 15^\circ / 25^\circ / 40^\circ$ and a **foam nozzle**.

Water Pump:

- 450 L/hour
- 2800 W
- 220 V

7-inch Monitor: with **analog video receiver** (for receiving the drone's camera feed).

22×6.5 inch Propellers: 2 pairs (CCW and CW) provided on the UAV, plus 1 additional pair (CCW and CW).

Note:

Contact information

WE ARE HERE FOR YOU

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Sales

Email



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Support

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If you have any questions, you can contact us at our email address:

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