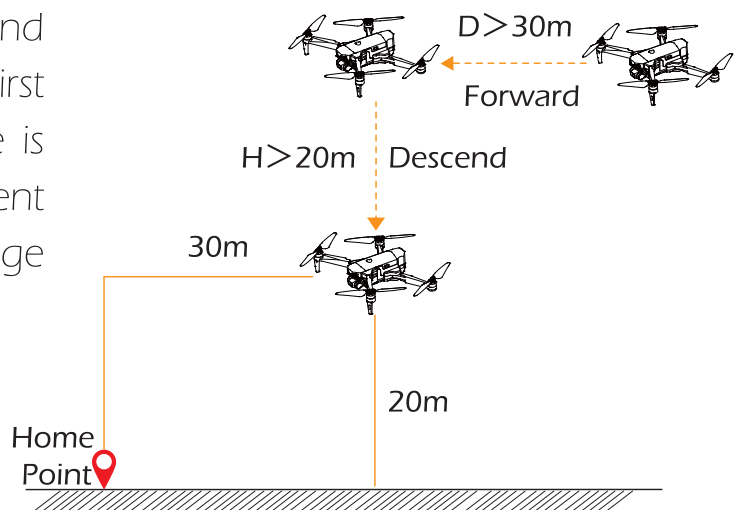


Low Voltage RTH

① When the drone's lights flash slowly, the “” symbol is displayed in the controller screen. Then the First Low Voltage RTH will be triggered. The controller will emit “beep-beep” alert every 6 seconds. The drone will return automatically in the following two conditions: (At this time, the drone can only fly within a safe range of its height no more than 20m and its distance no more than 30m .)

a. When the flight distance is more than 30m, the drone will fly automatically into the electronic fence (H 20m x D 30m) and stay the current distance, then exit the First Low Voltage RTH. If the flight distance is equal to 30m, the drone will stay current distance, then exit the First Low Voltage RTH.

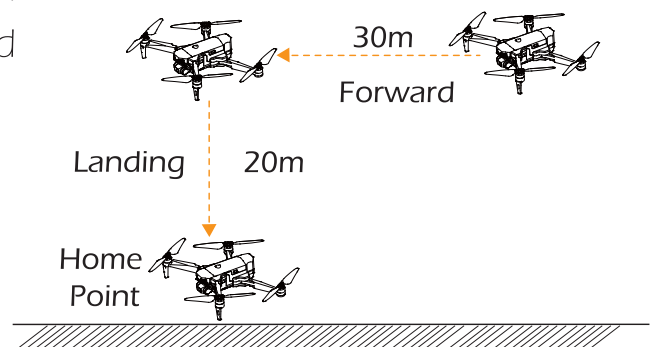


Flight Altitude $> 20m$
Flight Distance $> 30m$
Home Point Range: Radius 1.5m

b. When the flight altitude is higher than 20m, the drone maintains its current height and then flies automatically into the electronic fence (H 20m x D 30m), then exit the First Low Voltage RTH. If the flight altitude is lower than 20m, the drone will ascend to 20m and fly automatically into the electronic fence (H 20m x D 30m), then exit the First Low Voltage RTH.

② If the drone's lights begin to flash rapidly the “” symbol will be displayed in the controller screen and the controller will emit “beep-beep-beep” alert every 3 seconds. The Second Low Voltage RTH is automatically triggered. Drone will return automatically.

a. When the flight distance is 30m, the drone will fly automatically to Home Point and land on the ground. If flight distance is less than 5m, the drone will maintain its distance and then land on the ground.



b. When the flight altitude is equal to 20m and the distance is more than 5m, the drone will maintain its current altitude, fly automatically to Home Point and then land on the ground. If the flight altitude is lower than 20m and distance is more than 5m, the drone will ascend to 20m and fly automatically to the Home Point, and then landing on the ground.



- During the Second Low Voltage RTH, the drone can not be controlled to ascend and descend. But you could operate the Right Joystick to change the landing position (adjustment range 10 meters).
- The drone cannot avoid obstacles.

APP OPERATION INSTRUCTION

Operation Interface



3D VR



Waypoint
flight



Follow
me



Surrounding



Lock



Find
drone



Music



Home
page



Flying
record



Drone
signal



Satellite



Battery



Setting



Take off



Landing



Return



Function



SD Card
testing



Photo



Shutter
button



Video



Filter



Zoom

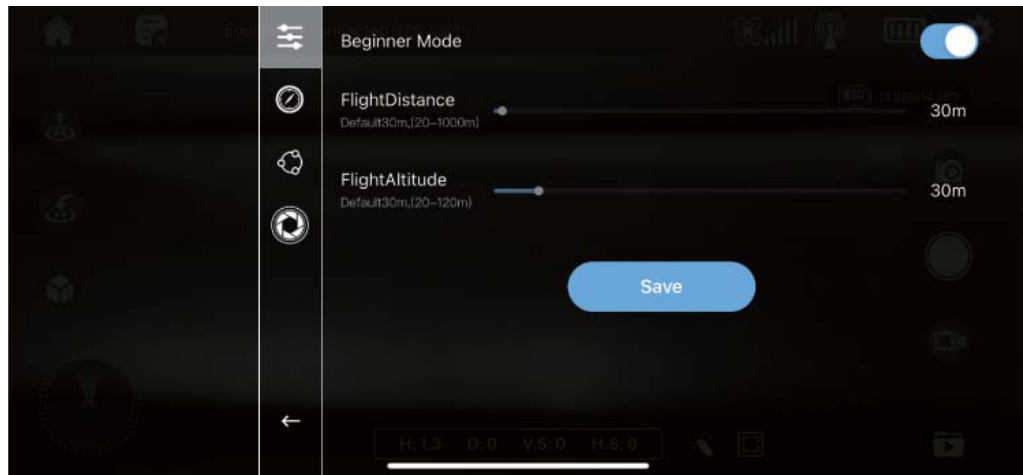


Media



Flight data

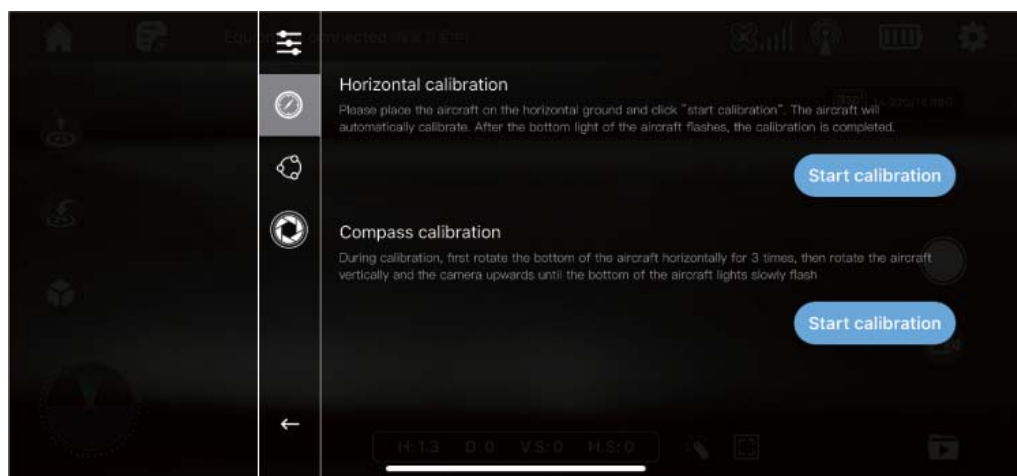
Setting Parameters



Click the “” icon to enter the setting interface (as shown in the figure above). You can set a limited flight range:

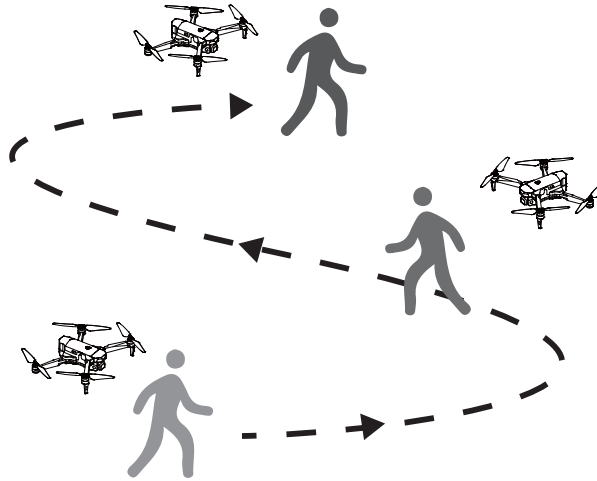
1. Maximum flight distance: 60~3300 feet / 20~1000 m.
2. Maximum flight altitude: 60~390 feet / 20~120 m.
3. Maximum flight radius: 16~160 feet / 5~50 m. (The Point of Interest's flight radius is set at 16 feet by default.) .
4. Beginner Mode (default setting): The default flight altitude is 30 meters.

The default flight distance is 30 meters.



You can also start calibration of the Gyroscope and Compass in the setting interface (as shown above).

Follow Me



When the Follow Me function is enabled, the drone will follow the GPS in your smart phone to follow you wherever you go.

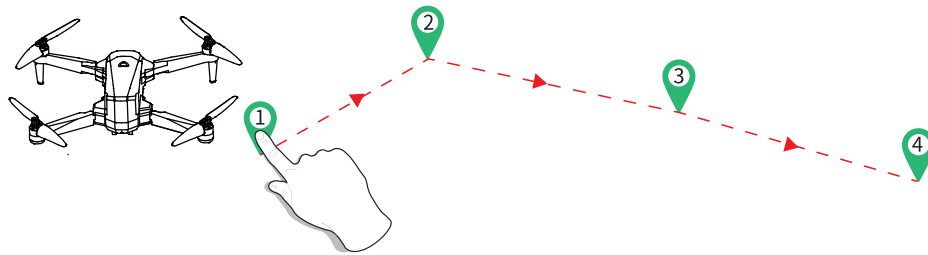
1. Ensure the drone's flight range is within 30m.
2. Click the “” icon on the app interface, then click “” to enter the Follow Me function. Next “ Slide right to confirm ” the drone will now follow the phone’s coordinates.
3. To exit Follow Me Mode, simply click the “” icon on the app interface again.

Common Issues :

- ① Follow Me mode may be difficult to activate if the phone’s GPS signal is too weak. This could be due to the signal loss from surrounding buildings, trees, or congestion from too many mobile phones in the area.
- ② Use in an open area and be mindful of your surroundings. The drone is NOT equipped with obstacle avoidance.

Waypoint flight

It is recommended to enlarge the map if you want to use Waypoint flight.

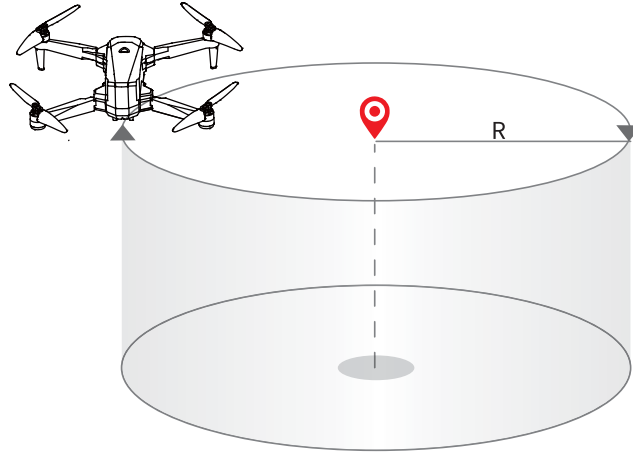


1. Click the “” icon on the app interface, then click “” to enter the Waypoint flight function.
2. Draw a line on the map to create a path (maximum 15 paths). Click “” icon to submit the route, then “ Slide right to confirm”. The drone will now fly along the path according to the points connected on the map.
3. Click the “” icon to deduct the path.
4. Click the “” icon to delete all paths to stop waypoint flight.
5. Exit the Waypoint flight mode by clicking the live transmission image .
6. If the flight path submission fails, you can choose to re-submit or exit again.
7. The drone will fly back to the starting point after executing flight path.

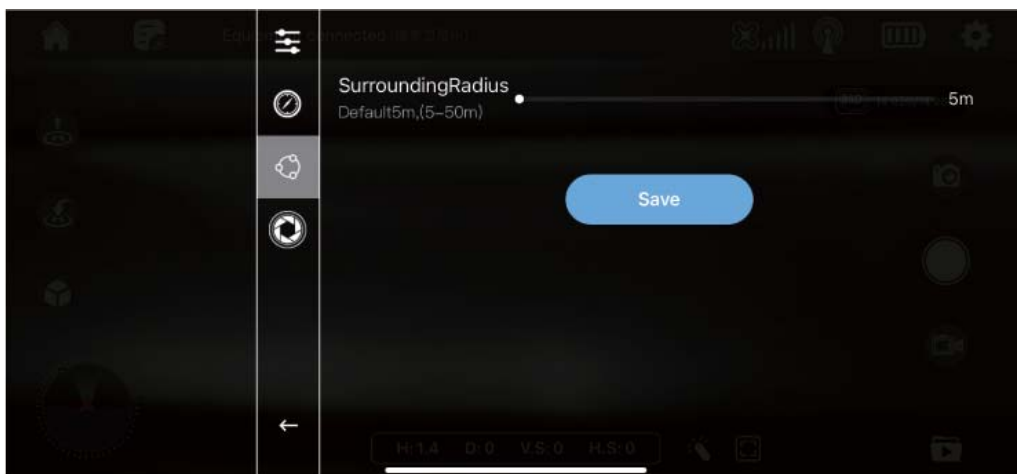


- DO NOT fly the drone towards people, animals, or small/ fine objects (e.g. tree branches and power lines) or transparent objects (e.g. glass or water).
- There may be some deviation between the expected and actual flight path.

Point of Interest

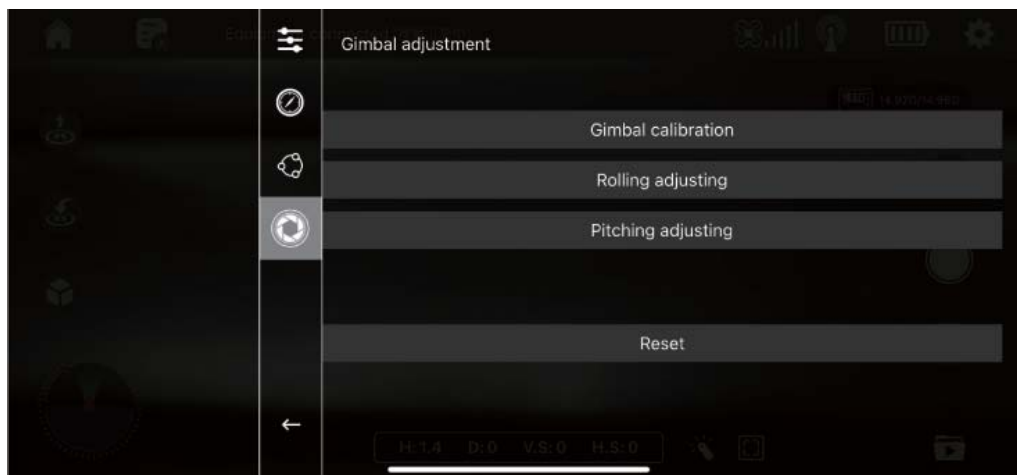


1. Click the “” icon on the app interface. Click “” then “ Slide right to confirm ”to enter the Point of Interest function.
2. The drone will record its flight position the moment while you enter this function of the Point of Interest. The drone will now continuously circle clockwise around the preset point. (The default radius is 5m. To change the point, please click “Setting  ” —“Flight Radius  ” to reset.)



3. To exit Point of Interest mode, simply click the “” icon on the app interface again.

Gimbal adjustment



1. Put the drone on the surface ground and click the “” icon on the app interface and select the “”. Click ‘Gimbal calibration’, then the Gimbal starts detecting and calibrating automatically.
2. Click “Rolling adjusting” then click “ ” to adjust Gimbal rolling.(Pic.1).
3. Click “Pitching adjusting” then click “ ” to adjust Gimbal pitching.(Pic.2).
4. Click “Reset” to restore the default setting.



· Do not touch the Gimbal when it's in detecting.



(Pic.1)



(Pic.2)

Take Photo/Video

1. Click the “ ” icon to switch between photo and video mode.
2. When the shutter button is “”, click once to take a photo.
3. When the shutter button is “”, click once to start recording, and click again to stop recording.
4. Click the “” icon to enter the Media folder for viewing Photo and Video.



Pic 3

When the TF card is not installed, the photos or videos will be stored directly in the APP photo album (**Pic.3**) and smartphone.

Tips:

- The app needs your access permission to phone album when first activating this function.

When the TF card is installed, the photos or videos are stored in the TF card .

DRONE STATUS INDICATOR

Indicator Status		Meaning
 	The drone's LED lights flash rapidly	Drone is connected to the controller, Compass Horizontal Calibration begins.
 	The drone's LED lights flash slowly.	Compass Horizontal Calibration has completed and begin Compass Vertically Calibration.
 	Front lights turn solid blue, rear lights turn solid green.	Compass Calibration has completed. No GPS signal or weak GPS signal.
 	Front lights turn solid blue, rear green lights flash twice per second.	Good GPS signal.
 	Front and rear lights flash rapidly when pressing the calibration button.	Currently calibrating the Gyroscope.
 	Front and rear lights flash slowly while flying.	The First Low Voltage RTH will be triggered.
 	Front and rear lights flash rapidly while flying.	The Second Low Voltage RTH is automatically triggered.

SPECIFICATIONS

DRONE

Model: W11

Weight: 545 g / 19.22 oz

Max Flight Time: Approx 30 minutes

Operating Temperature Range: 32° to 104°F

Dimensions: 115 x 175 x 80 mm (Folded)

285 x 225 x 80 mm (Unfolded)

DRONE BATTERY

Capacity: 2500 mAh

Voltage: 11.4 V

Battery Type: Li-Po

Energy: 28.5 Wh

Charging power: 34.2 W

Charging Temperature Range: 41° to 104°F (5° to 40°C)

Charging Time: 6 hours

BATTERY CHARGER

Input: 5V $\equiv$ 2A (Type C)

Output: 11.4V $\equiv$ 1-2A

CONTROLLER

Operating Frequency: 2.4 GHz

MAX Transmission Distance: 1000m (outdoor and unobstructed)

Battery: 3.7V 500 mAh.

Charging Time: Approx 90 mins

Operating Temperature Range: 32° to 104°F

CAMERA

Camera frequency: 5 GHz

Resolution: 4K

Lens: FOV 90°

FPV Distance: 800m (outdoor and unobstructed)

Photo: JPEG

Video: MP4

MAX Supported TF Cards: 128 GB (Not included)

Controllable Range: Pitch: -90° to 0°

Operating Temperature Range: 32° to 104°F

USB CHARGING CABLE

Voltage: 5 V

Ampere: > 2 A

TROUBLESHOOTING

No.	Problem	Solution
1	When the drone is powered on, the indicator light keeps flashing rapidly.	The drone is in the Gyroscope Calibration Mode. Please place the drone on a flat, level surface.
2	The drone cannot hover after takeoff and tilts to one side.	Place the drone on a flat, level surface and repeat Gyroscope Calibration.
3	The drone vibrated in flight.	A propeller may be damaged. Please inspect and replace any damaged propeller with a new one.
4	The drone could not be unlocked and the drone's lights flashed.	The drone battery voltage is too low. Please fully charge the battery.

CONTACT US

**Please do not hesitate to contact us if you need further support.
Customer Service Email: support@aovotoys.com**

BATTERY WARNING:

1. Failure to follow all the instructions may result in serious injury, irreparable damage to the battery and may cause a fire, smoke or explosion.



2. Always check the battery's condition before charging or using it.

3. Replace the battery if it has been dropped, or in case of odor, overheating, discolouration, deformation or leakage.

4. Never use anything other than an approved Li-Po battery charger. Always use a balancing charger for LiPo cells or a Li-Po cell balancer.

5. The battery temperature must never exceed 60°C (140°F) otherwise the battery could be damaged or ignite.

6. Never charge battery on a flammable surface, near flammable products or inside a vehicle (preferably place the battery in a non-flammable and nonconductive container).

7. Never leave the battery unattended during the charging process. Never disassemble or modify the housing's wiring, or puncture the cells. Always ensure that the charger output voltage corresponds to the voltage of the battery. Do not short circuit the batteries.

8. Never expose the Li-Po battery to moisture or direct sunlight, or store it in a place where temperatures could exceed 60°C (such as car in the sun).

9. Always keep it out of reach of children.

10. Improper battery use may result in a fire, explosion or other hazard.

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11. Non-rechargeable batteries are not to be recharged. Rechargeable batteries are only to be charged under adult supervision.
 12. Different types of batteries or new and used batteries are not to be mixed.
 13. Batteries are to be inserted with the correct polarity.
 14. The supply terminals are not to be short-circuited. Regular examination of transformer or battery charger for any damage to their cord, plug, enclosure and other parts and they must not be used until the damage has been repaired.
 15. The packaging needs to be kept since it contains important information.
 16. The toy is only to be connected to Class II equipment bearing the symbol.

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

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.



Made in China