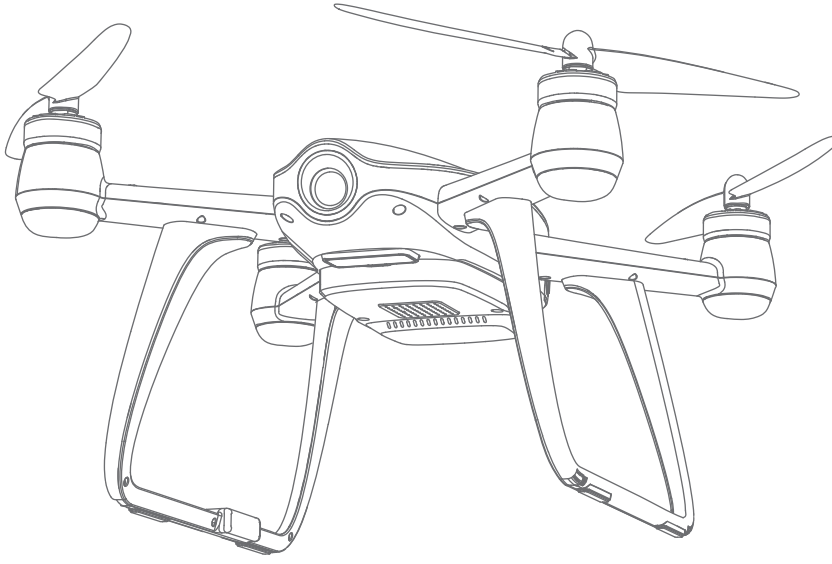
AIBAO

QUICK START GUIDE

V1.1 12th-SEP-2016

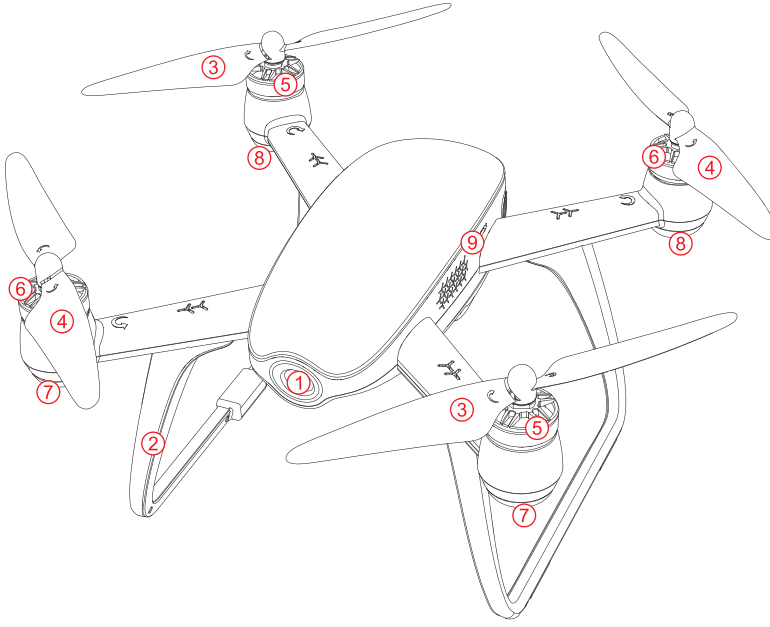


www.walkera.com

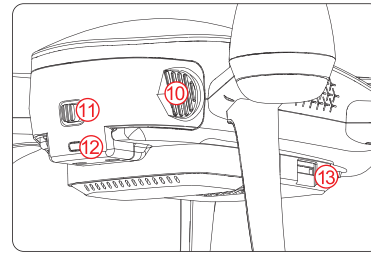
Contents

1.0 Get to Know Your Aircraft

- Brand-new industrial design and modular design, easy to install and update.
- With 5.8G WIFI digital video transmission, bring diverse visual effect.
- The newest built-in main flight controller system enable very stable flight.



1. Camera
2. Landing gear x4
3. Clockwise propeller
4. Counterclockwise propeller
5. Clockwise motor
6. Counterclockwise motor
7. Aircraft Status Indicators(blue)
8. GPS signal indicator(red)
9. Upgrade port
10. Battery: 7.6V 5200mAh 5C 2S LiPo
11. Power switch
12. Power indicator
13. Memory card slot



* To avoid property loss and personal injury caused by wrong operation, please read the manual carefully before flight.

2.0 Get to Know Your Remote Controller

DEVO F8E with the built-in 5.8G WiFi Module. Equipped with functions like AUTO takeoff / AUTO Landing GPS hold mode / Return To Home, camera controlling, the AIBAO is easier to control.

(You can select the suitable flight mode according to your flying skill.)

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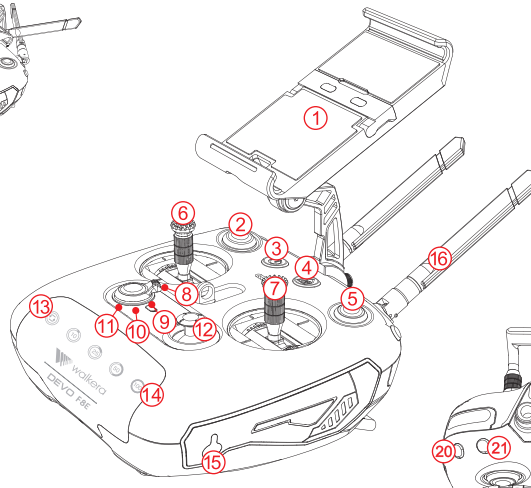
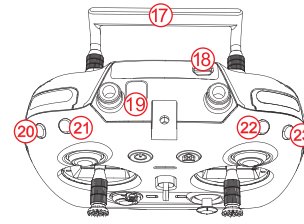
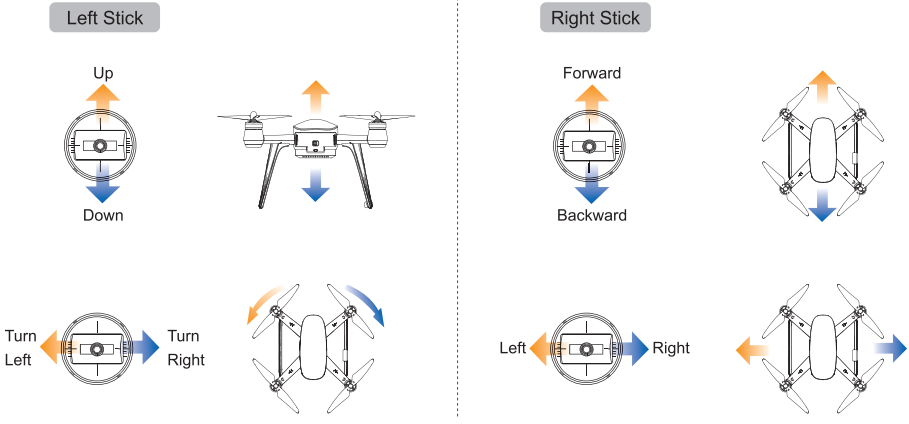


1. Mobile Device Holder
2. AUTO Takeoff
3. Power Button
4. Return To Home
5. AUTO Landing
6. Lift stick
7. Right stick
8. Manual Mode
9. GPS Mode
10. Motion Mode
11. Circle flight
12. Gimbal control stick

13. Status LED
14. Battery Level LEDs
15. Charger socket
16. Antenna
17. Handle Bar
18. Upgrade port
19. Training port
20. Video button
21. Camera button
22. Gimbal return
23. Gimbal pattern



The default setting is Mode 2. The left stick controls the aircraft's altitude and heading, while the right stick controls its forward, backward, left and right movements.

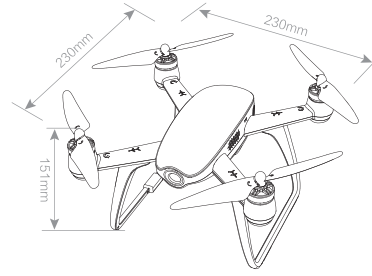


* Maximum transmission distance about 1.5km as measured under the experimental environment, for reference purpose only.

3.0 Specifications

• Aircraft

Main Rotor Dia.:	186mm
Overall (L x W x H):	230 x 230 x 151mm
Weight:	420g (Battery excluded)
Remote Controller:	DEVO F8E
Receiver:	DEVO-RX719
Main Controller:	FCS-280 AIBAO
Brushless Motor:	WK-WS-28-014B(CW/CCW)
Brushless ESC:	AIBAO(CW/CCW)
Battery:	7.6V 5200mAh 5C 2S LiPo
Flight Time:	About 20mins
Working Temperature:	-10℃~ +40℃

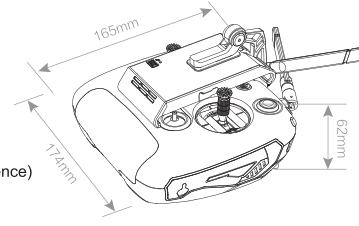


• 4K Camera

Image sensor:	1/2.3 Inch SONY Effective pixels 16 million
Lens:	FOV 100° F2.2-2.8 Focus infinity
Max photo resolution:	16M(4640 x 3480)
Max video resolution:	4k/25p
Video container:	MP4/MOV (H.264)
Photo container:	JPG
Support TF card:	Maximum capacity 64G
Working Temperature:	-10℃~ +40℃

• The remote controller

Overall (L x W x H):	165 x 174 x 62mm
Working frequency:	2.4G
Signal range:	About 1.5KM
	(open without shelter, no electromagnetic interference)
Built-in battery:	7.4V 3000mAh Li-po 2S



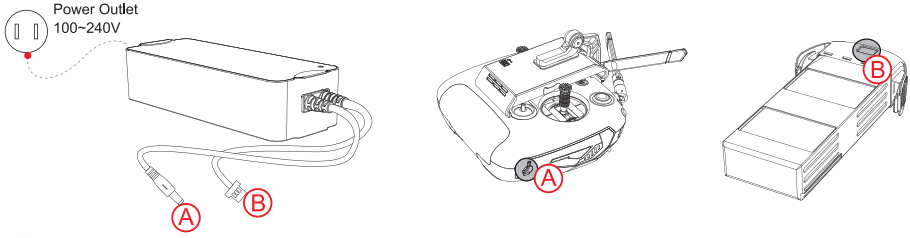
4.0 Attention before flight

1) The AIBAO is recomended for pilots, 14 years or older, with RC hobby experience.
2) Only fly the AIBAO in dry weather, with low wind, please do not fly in rain, snow or heavy foggy conditions.
3) Always choose large open fields for flying. Check local LAW and ordinances for legal flying areas.
4) Always keep at least 10 feet distance to the aircraft when armed, to avoid injury from high-speed propellers on the ground or while flying. Always disarm before handeling the aircraft.
5) Do not fly close to high-voltage power lines, cellphone towers, or radio towers, as these may disrupt your control signal.
6) ALWAYS check local laws BEFORE flying. NEVER fly over crowds, concerts or sports stadiums.

5.0 Charge the Battery

1) Connect the charger to an AC power supply (100 ~ 240V 50 / 60HZ).

2) Please charge the battery in the closed state of remote controller, aircraft battery.

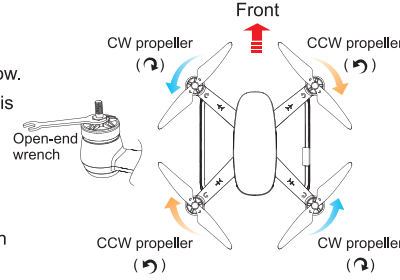


Attention:

- Charger indication green is always on, it indicates that the aircraft battery is fully charged.
- Remote controller lights are off, indicating that the remote controller battery is fully charged.

6.0 Prepare the AIBAO

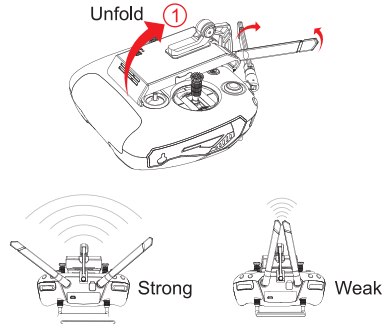
Fix the CW propeller(↷) onto the CW motor according to the direction of blue arrow, and fix the CCW propeller(↶) onto the CCW motor according to the direction of orange arrow. Tighten the propellers manually and make sure the propeller is installed in proper way and fastened.

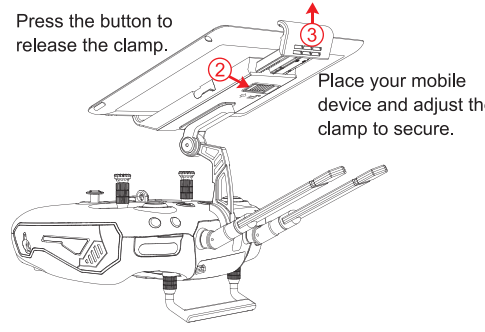


Attention:

- Install prop by hand and tighten by holding the motor with the included wrench.You can also use the wrench to help remove broken props in case of a crash.

7.0 Prepare the Remote Controller





* Ensure that the aircraft is flying within the optimal transmission zone. To achieve the best transmission performance, maintain the appropriate relationship between the operator and the aircraft.

8.0 Install "Walkera Drone" and "Aibao GO" on your mobile

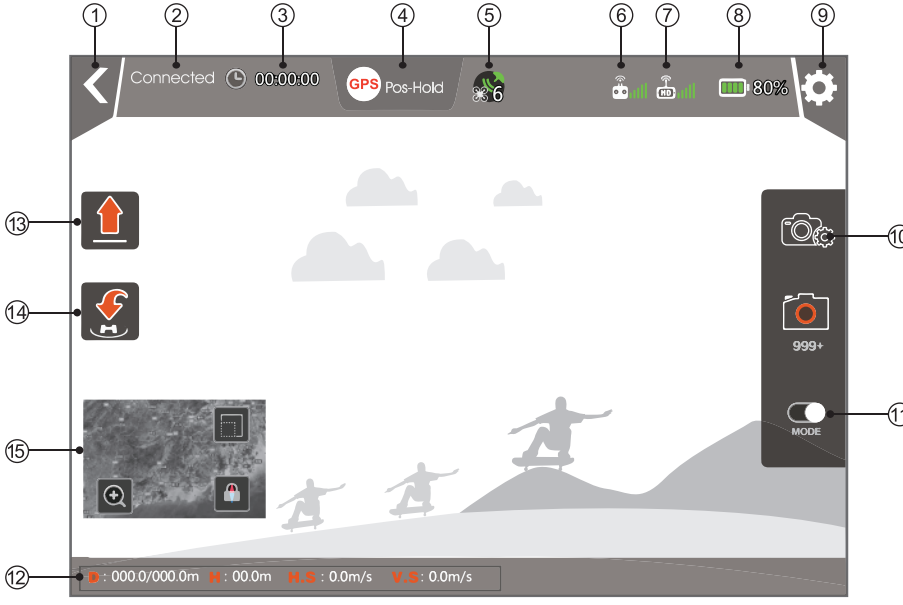
Search "**Walkera Drone and Aibao GO**" at Apple Store and install it on your mobile.

We recommend you to use this software on tablet devices to get the best experience.

Software supports IOS 9.0 version or above.

9.0 Walkera Drone Operating Main Interface Instructions

In the interface, HD video and photographs can be real-time previewed, as well as the dynamic setting parameters, such as aircraft, remote controller and battery.



1. Return [ ]: Return to last step.

2. Equipment connection status:
   Connected or Disconnected.

3. The flight time [ ] : Aircraft flight time.

4. The aircraft model: Display aircraft flight mode.

5. Number of aircraft satellite [ ]:
   Displays the received satellites of aircraft.

6. The remote controller signal strength [ ]:
   Displays the signal level between remote controller and aircraft.

7. Camera signal [ ]

8. Battery Levels [**80%**]: Real-time display the current Flight Battery remaining levels.

9. Setting [ ]: Click the icon to open the Setting menu, Normal setting, aircraft, remote controller, gimbal and battery can be charged.

10. Camera settings [ ]:
    You can set the video size, photo size, and stream.

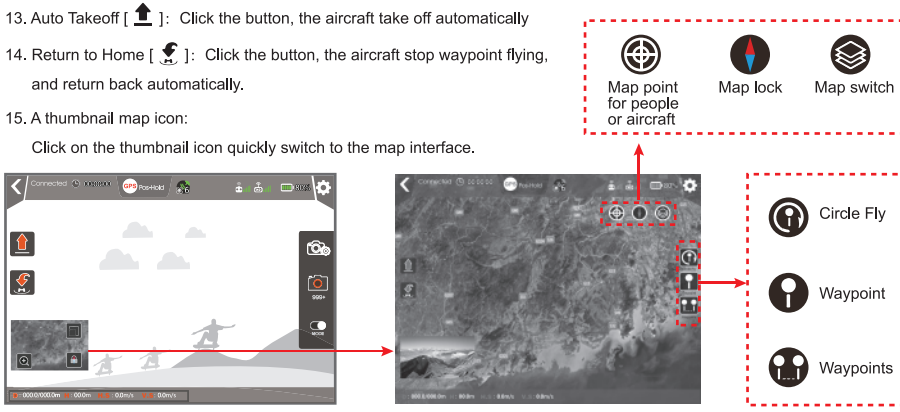
11. Photography and video switch [ ] :
    Photo: photo button is used to trigger the camera take pictures.
    While this function also supported in the remote controller.
    Video: video button to start/stop video. It can also press the video button on the remote controller for video.

12. Flight status parameters:
    Distance: aircraft with returning point horizontal distance.
    Height: aircraft with returning point vertical distance.
    Horizontal velocity: the speed of vehicle in a horizontal direction.
    Vertical speed: speed of aircraft in the vertical direction.

13. Auto Takeoff [ ]: Click the button, the aircraft take off automatically

14. Return to Home [ ]: Click the button, the aircraft stop waypoint flying, and return back automatically.

15. A thumbnail map icon:
Click on the thumbnail icon quickly switch to the map interface.



10.0 Aibao GO Game Main Interface Instructions

The AIBAO GO will activate once you start the GPS mode with a strong GPS signal.

1. Racing Mode: Click to enter Racing mode.
You can set up a virtual circuit in the real scene, and practice the racing flight, improve your flight technology.
2. Collection Mode: Click to enter Collection mode.
You can follow a prescribed route to collect COINS, and win the reward after completing the game.
3. Battle Mode: Click to enter Battle mode.
Powerful aircraft will appear in around you, start the fire and shoot down enemy planes to win the game.
4. Free Video Mode: Click to enter Free Video mode. Watch the aerial images in real time.

11.0 Ready for flight

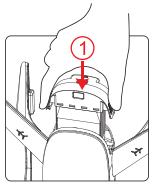
Place the aircraft in a wide open space, with the rear facing you. (This position is known as "TAIL IN")

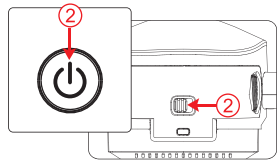
11.1 Starting the aircraft

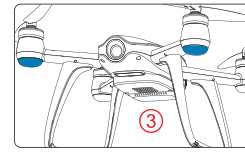
① Insert the battery.

② Power on the remote controller and the aircraft.

③ Put the aircraft in a horizontal position, blue LED lights flashes slowly until bright, indicating that IMU preheating is complete.







④ Open the Mobile Wi-Fi device, wait for 30 seconds, when at the same time appear "Aibao-Ground-***" and "Aibao-Air-***" , click "Aibao-Ground-***" , input password "1234567890" to connect and exit settings after a successful connection.

11.2 Connect to APP Software

Connect to operating software "Walkera Drone"

Walkera Drone

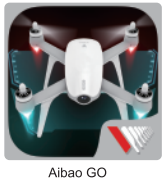
Click the icon on mobile device

Choose the aircraft AIBAO, click " Go To Connect."

Click "Connect ".

Enter APP the main interface.

Connect to game software "Aibao GO"



Aibao GO

Click the icon on mobile device

Connecting.....

Enter APP the main interface.

Attention:

- Two APP cannot be used on the same mobile device at the same time, need to quit an APP to use another APP.

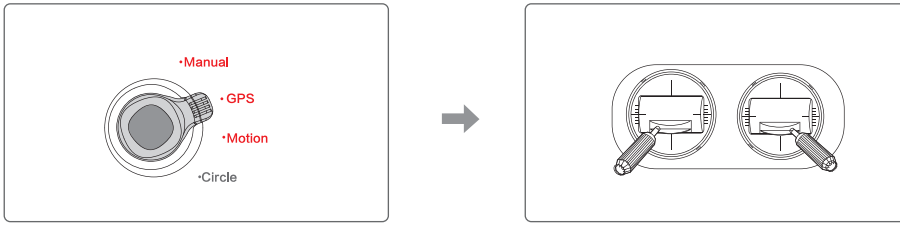
11.3 GPS indicator lights

When the rear red LED light (GPS) begin to flash, you can work GPS function.

11.4 Motor Unlock / Lock

Motor Unlock

Push the switch to GPS mode or Manual mode or Motion mode, and the move the left stick and right stick while outward and hold for more than 2 seconds.
You will see the Front blue LED light flashes, indicating that motors are unlocked.
Motors will start rotating after unlocked.



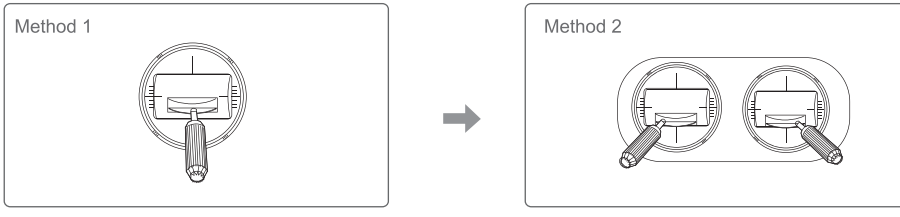
Attention:
- When it has GPS signal, you can unlock under the GPS mode (GPS) or Manual mode or Motion mode.
- Without the GPS signal, you can only unlock motors under Manual Mode.
- After unlock the motor, if the flight does not start after 5 seconds, the motor will automatically enter the locked state.

Motor Lock

There are two methods to lock the motors.

Method 1: When the aircraft has landed, push and hold the throttle stick down.
The motors will stop after 5 seconds.

Method 2: Move the left and right stick while outward and hold for more than 2 seconds.
You will see the front blue LED light always on, indicating that motors are locked.



12.0 Operation Instruction

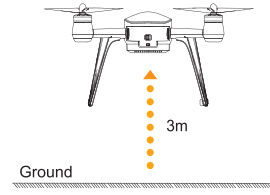
When the status indication on the top of Walkera Drone App is shown as “Connected”, the you can use the App to control the aircraft.

AUTO takeoff (remote controller or APP operation)

Please unlock the motor before take off. (Unlocking method, please refer to 10)

Press this key on the controller and the aircraft will take off automatically

Please click the icon in the APP main interface, then the aircraft will take off automatically.

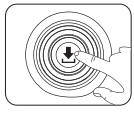


Attention:

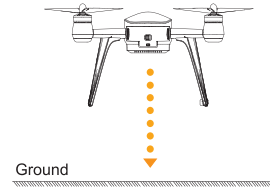
1) Make sure that the received GPS signal (Rear red LED light blinks)

2) AUTO takeoff default height is 3m, when it need to manual control the throttle, the throttle stick must be pushed to the midpoint or more, that it can remove AUTO takeoff mode.

AUTO Landing (Remote controller operation)



Press this key on the remote controller and the aircraft will AUTO Landing automatically



Attention:

1) Make sure that the received GPS signal (Rear red LED light blinks)

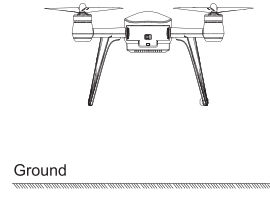
2) During the landing, you can operate the aircraft be forward and backward or right and left.

GPS hold mode (Remote controller operation)

Switch to “GPS” position

Press the Enter key to enter the GPS hold mode

Throttle stick return neutral



Attention:

1) Make sure that the received GPS signal (Rear red LED light blinks)

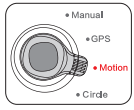
2) The first flight default to GPS Mode after each power on.

3) In the GPS mode, there are Altitude hold, fixed point, brake function, the flight speed is slower (≤5m/s).

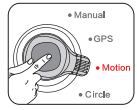
4) If the GPS signal is poor or no signal, can only be Altitude hold, but not fixed point.

5) Switch to manual mode can not be fixed point.

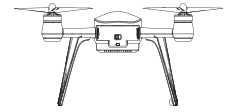
Motion mode (Remote controller operation)



Switch to “Motion” position



Press the Enter key to enter the Motion mode



Ground

Attention:

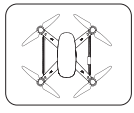
1) Make sure that the received GPS signal (Rear red LED light blinks)

2) In the Motion mode, there are Altitude hold, fixed point, brake function, the flight speed is faster (≤10m/s).

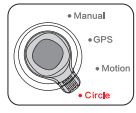
3) If the GPS signal is poor or no signal, can only be Altitude hold, but not fixed point.

4) Switch to manual mode can not be fixed point.

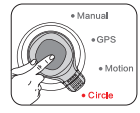
Circle flight (remote controller or APP operation)



Aircraft in GPS hold mode



Switch to “Circle” position



Press the Enter key to enter the circle flight mode

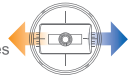
Please click the icon in the APP interface, then the aircraft enter circle flight mode.

Attention:

1) Make sure that the received GPS signal (Rear red LED light blinks)

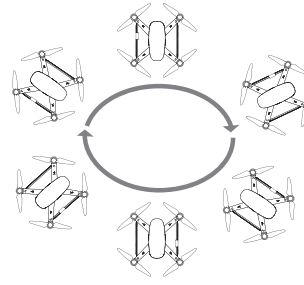
2) The aircraft is under quiescent state when it enters auto-circling. The circling function can only work after you set circle speed and direction by **toggling aileron stick left or right** (-5m/s to +5m/s speed changeable, Default is 0m/s).

Dial to the left, Clockwise circles



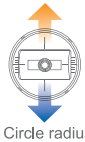
Dial to the right, Counterclockwise circles.

Speed: The larger volatility toggling and longer holding time, the faster circling. The slower the contrary.



3) **Dial elevator stick up or down** to change circle radius (5m-50m radius changeable, Default is 5m)

Dial up, Circle radius turns small



Dial down, Circle radius turns large

RETURN TO HOME (Remote controller or APP operation)

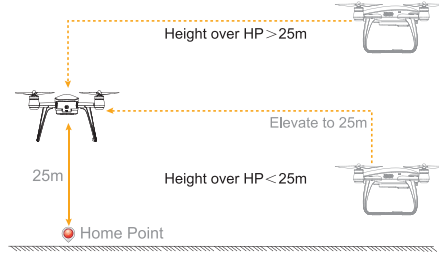
Long press this key on the remote controller and the aircraft will return automatically

Click this key in the APP interface and the aircraft will return automatically

Aircraft with Home point horizontal distance > 30m

a. If the flight altitude is higher than 25m, the aircraft will keep the current altitude and return above the Home Point then descend vertically.

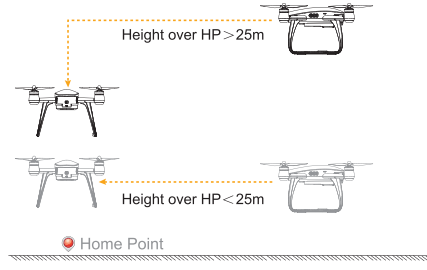
b. When the flight altitude is lower than 25m, the aircraft will elevate automatically to 25m high then fly back above the Home Point and land vertically.



Aircraft with Home point horizontal distance < 30m

a. If the flight altitude is higher than 25m, the aircraft will keep the current altitude and return above the Home Point then descend vertically.

b. If the flight altitude is lower than 25m, the aircraft will keep the current altitude and return above the Home Point then descend vertically.

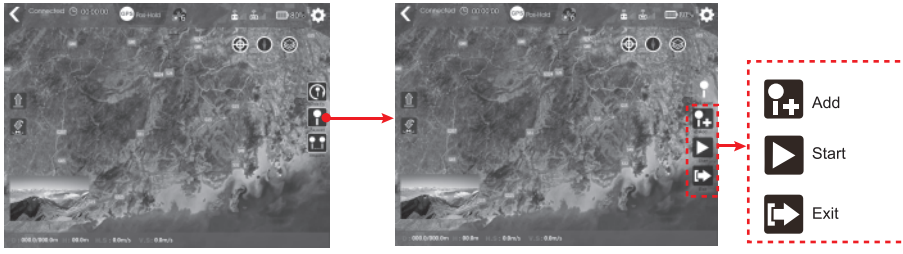


Attention:

1) Make sure that the received GPS signal (Rear red LED light blinks)
2) To enter a key return, please don't move the other switches and buttons.
3) When the aircraft lost the remote controller signal, it will automatically enter Failsafe RTH.
4) When the aircraft battery voltage is less than 7.0V, and aircraft with Home point horizontal distance is greater than 8m, aircraft will automatically turn back. If the aircraft with the Home point horizontal distance less than 8m, aircraft will decrease automatically from the current position and land.
5) GPS signal is not normal or GPS does not work, can not achieve the auto return, but will land automatically.

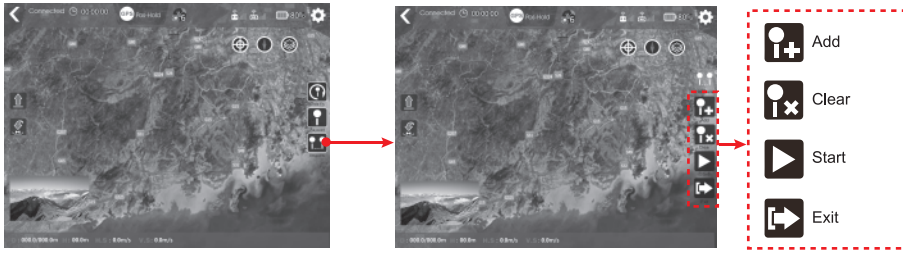
Waypoint Flight (APP operation)

Click the icon to enter the Waypoint Flight interface.



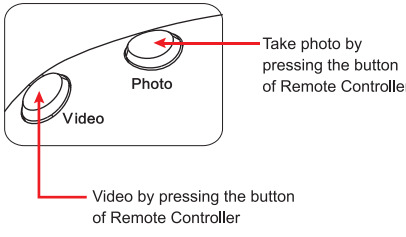
Waypoints Flight (APP operation)

Click the icon to enter the Waypoints Flight interface.



Video and photo (remote controller or APP operation)

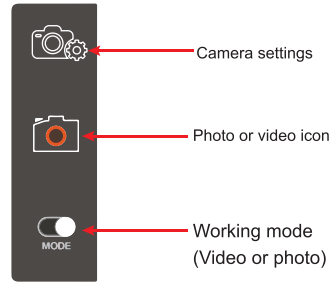
•Remote Controller Operation



•APP Operation

1) Choose working mode: photo or video

2) Touch the Photo or video icon to take photo or video



13.0 End Flying

① Manual landing, AUTO Landing or return to home function landing.

② First Power off the aircraft by unplugging the battery, then turn off the radio.

③ Finally, remove the battery from the aircraft.

14.0 Additional remarks

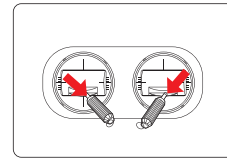
14.1 Compass Calibration

Attention:

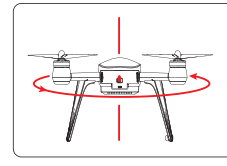
- If there is circles or drift in flying, please calibrate the compass.
  (the motor must be locked and blue LED light always on)
- Please calibration outdoors and far away from strong electromagnetic interference.

The compass calibration steps are as follows:

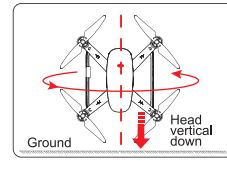
① Do this by moving both sticks DOWN and to the middle position at the same time about 5 seconds, the aircraft red LED light turn off, blue LED light flash slowly.



② Rotate the aircraft 360 degrees in the horizontal direction until the red LED light brighting, blue LED light flash slowly.



③ Rotate the aircraft in the vertical direction (aircraft head down) 360 degrees until both red LED and blue LED light are always bright, which Indicates that the calibration is successful, and then the aircraft is still in the horizontal position.
If calibration is not successful, please re calibrate it according the above methods.



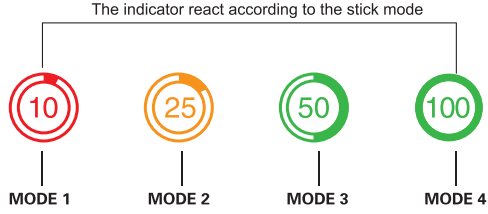
14.2 Remote Controller stick mode switch and stick calibration

Tip:

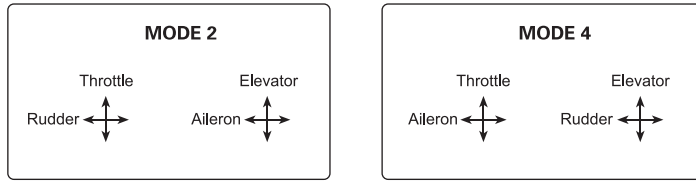
- DEVO F8E stick mode and stick calibration has been set up before out of factory, if you need to switch and calibration, please refer to the following methods.
- It must be operated under power off or motors are locked well.

Stick Mode Switch:

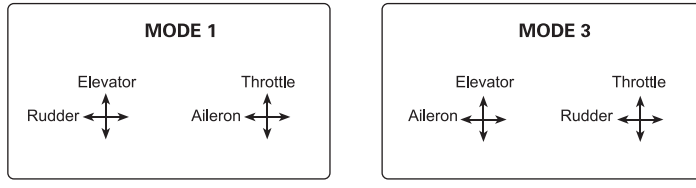
Long press " Gimbal pattern " buttom for 3-5 seconds, enter the stick mode change, short press " Gimbal pattern " buttom, choose mode 1, mode 2, mode 3, mode 4 and then long press " Gimbal pattern " buttom for 1-2 seconds again, comfirm and exit the change mode.



MODE2 and MODE4 are left-hand throttle



MODE1 and MODE3 are right-hand throttle



※ ***Customization also supported in APP software.***

Stick Calibration:

Long press " Gimbal return " button for 3 to 5 seconds, four lights flash alternately to enter stick calibration. Operate the stick several times within mechanical tuning range and then back in the middle. Long press the " Gimbal return " button for 3 to 5 seconds again, four indicator lights turn on, then exit stick calibration.

Attention:

- When you exit if vibrate alert, then the calibration fails, please recalibrate.

walkera

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User manual is subject to change without prior notice.

Please go to Walkera official website to get the latest version.