

# VOYAGER 4

4G LTE

DEVO F18 Remote Controller

QUICK START GUIDE V1.1

Oct. 18th 2018

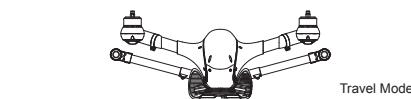
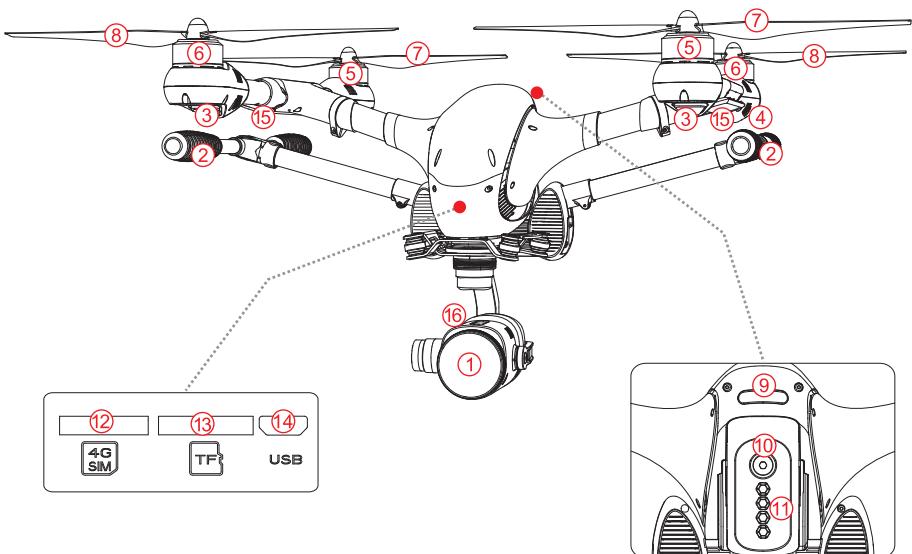


# Contents

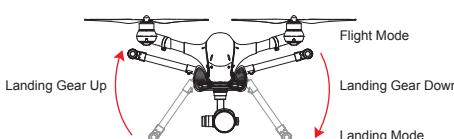
1.0 Get to know your aircraft	3
2.0 Get to know your Remote Controller	4
3.0 Specifications	5
4.0 Attention Before Flight	6
5.0 Check Battery Levels	6
6.0 Charge the Batteries	6
7.0 Download and install the software APP	7
8.0 APP Main Screen Instructions	7-8
9.0 Prepare the Remote Controller	8
10.0 Prepare the VOYAGER 4	9-10
11.0 Ready to fly	10
11.1 Starting the aircraft / Get binding	10
11.2 Connect to APP Software	10
11.3 GPS indicator light	11
11.4 Motor Unlock / Lock	11
12.0 Operation Instruction	12-17
13.0 End flight	17
14.0 Additional remarks	18
14.1 Introduction for FCS-V4 Main Flight Controller	18
14.2 Compass Calibration	18
14.3 Remote Controller stick mode switch and stick calibration	19
14.4 Introduction for DEVO-RX715 receiver	20
14.5 Brushless ESC and Brushless Motor connection diagram	20
15.0 Intelligent Flight Battery Safety Guidelines	21

## 1.0 Get to know your aircraft

- Modular design for electronic parts enable convenient connections and easy assemblies.
- Newly designing of new generation flight controller system ensure stabilized and reliable flight performance.
- GPS and GLONASS dual navigation system ensure more accurate and safer flight experience.
- Adopting new 4G communication image transmission technology.
- Adopting 18X optical zoom/ 4K HD camera to obtain much clearer image and easier operating experience.



1. Gimbal and Camera      9. Aircraft Status Indicators



2. Landing Gear      10. Power Button

3. Front LEDs ( Blue )      11. Battery Level Indicators

4. Rear LEDs ( Red )      12. 4G SIM card port

5. CW motor      13. Idle port

6. CCW motor      14. USB upgrade slot

7. CW propeller ( ↗ )      15. 4G communication antenna

8. CCW propeller ( ↙ )      16. Camera memory card port

\* 1) 4G communication cards for aircraft and mobile devices are purchased and installed by buyers.

2) The Maximum flight time of 20 minutes was obtained under test environment.

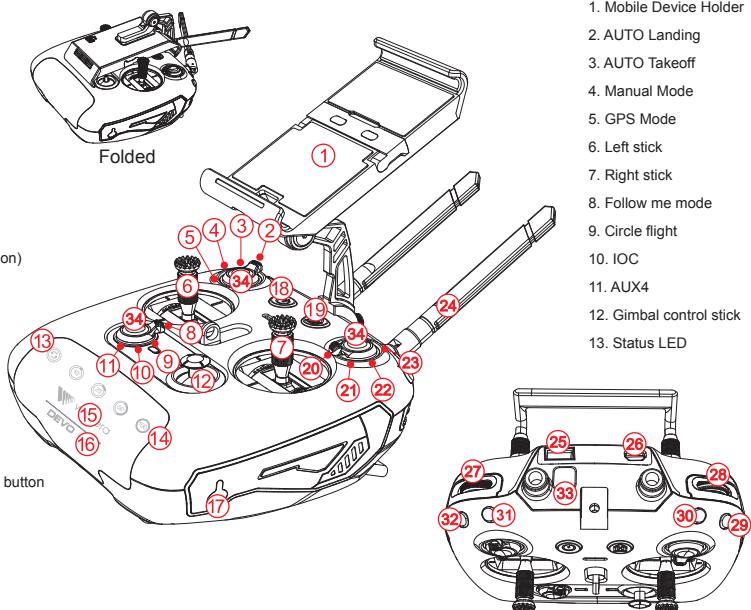
3) To avoid property loss and personal injury caused by wrong operation, please read the manual carefully and watch the tutorial videos at [www.walkera.com](http://www.walkera.com) before flight.

## 2.0 Get to know your Remote Controller

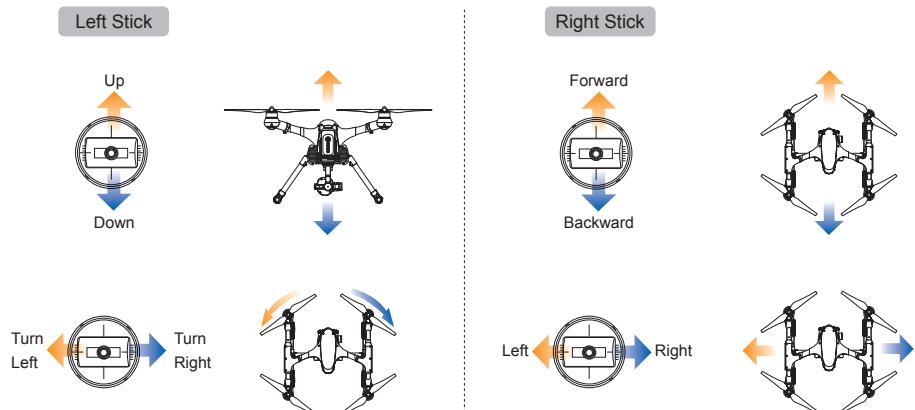
DEVO-F18 with the built-in Bluetooth Module. Equipped with function like manual mode / GPS hold mode / Return To Home, camera & Gimbal controlling, the VOYAGER 4 is easier to control.

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

- 14. Battery Level LEDs
- 15. Charging Indicator
- 16. Bluetooth blue LED
- 17. Charger socket
- 18. Power Button
- 19. Return To Home
- 20. AUX3
- 21. AUX2
- 22. Motion Mode(Common)
- 23. Beginner Mode
- 24. Antenna
- 25. Data transfer port
- 26. Upgrade port
- 27. Left Gimbal Dial
- 28. Right Gimbal Dial
- 29. Stop button
- 30. Skid landing control button
- 31. Photo button
- 32. Video button
- 33. Training port
- 34. Enter key



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.

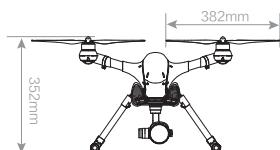
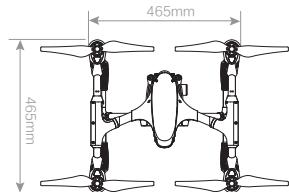


\* Maximum transmission distance about 1.5km as measured under the experimental environment, for reference purpose only.

## 3.0 Specifications

### • Aircraft

Main Rotor Dia.:	382mm
Overall (L x W x H):	465 x 465 x 352mm
Weight:	3250g(Battery included)
Remote Controller:	DEVO F18
Main Controller:	FCS-V4
Receiver:	DEVO-RX715
Brushless Motor:	WK-WS-42-002A
Brushless ESC:	Voyager 4 (R/B)
Battery:	22.2V 4500mAh 10C(6S) LiPo
Flight Time:	About 20mins
Working Temperature:	-10°C ~ +40°C

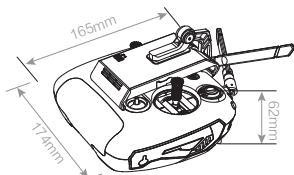


### • Gimbal

Control accuracy:	Static: ±0.008°; Motion: ±0.08°; Shake-proof: ±0.008°
Control range:	Pitch rotation -90°~ +45°; Horizontal ±150°

### • Camera

Sensor:	1/2.3 SONY IMX117 CMOS
ISO Range:	100-3200(Video) / 100-1600(Image)
Video Resolution:	4K 30fps
Photo Resolution:	4608 x 3456
Focal Length:	6.7-134.5mm
Zoom Ratio:	18x optical zoom
Zoom Speed:	About 2.0s
Horizontal View:	59.8°~ 3.0°(Wide Angle-Telescopic)
Close-shot Distance:	10 - 1500mm(Wide Angle-Telescopic)
Video Storage Maximum:	32Kbps - 16Mbps
Compress Standard:	H.264 / H.265
Files Format:	JPG/MP4
Support Micro-SD:	SD/SDHC Card(MAX128G)



### • 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

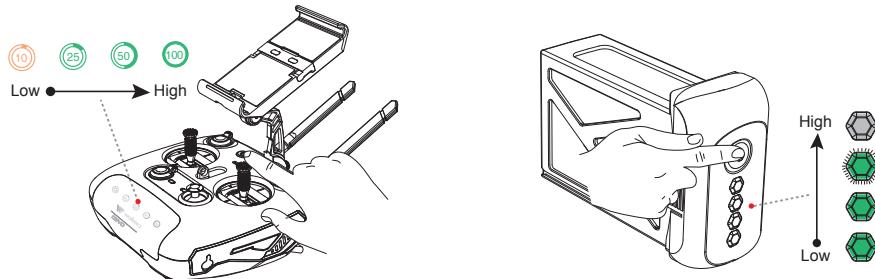
- 1) This product is suitable for people who has flight experience of hobby model and ages 14+.
- 2) Do not fly in bad weather, such as windy, snowy, foggy etc..
- 3) Select the open, no-tall-buildings area. Extensive steel-used buildings will affect the compass, blocking the GPS signal, causing worse on the aircraft positioning or even not able to locate.
- 4) Please keep away from highly spinning parts(such as propellers and motors).
- 5) Please keep away from obstacles, people, water and so on.
- 6) Do not fly it in where there is high-voltage lines, communication base stations or radio towers, in order to avoid signal interference.
- 7) Don't fly in no-fly zone according to the local laws and regulations.
- 8) Flight performance will be effected with environment when flying above 4500m of sea levels, as the battery and gravity system will be influenced.

## 5.0 Check Battery Levels

*Turn on the remote controller and intelligent flight Battery to check the battery level.*

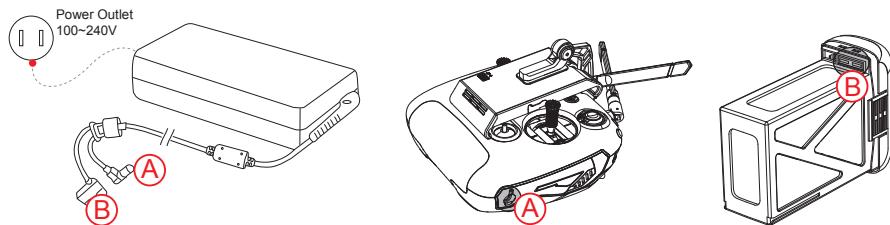
*Be sure the battery was fully charged at the first use.*

- 1) Long press the power button for 2~3 seconds to turn on the remote controller.
  - 2) Long press the power button for 3~5 seconds to turn on Intelligent Flight Battery.
- (Repeat above operation to turn off the intelligent flight battery and remote controller)



## 6.0 Charge the Batteries

- 1) Connect the charger to the AC power (100 ~ 240v 50/60hz).
- 2) Only use the walkera charger for your Intelligent Flight Battery and remote controller.  
Please turn off the intelligent flight battery and remote controller before charging.
- 3) The Level indicator of intelligent flight battery light off means charging finished completely;  
The charging indicator of remote controller turns green means remote controller charging finished completely.



## 7.0 Downloading and Installing APP

APP software supports Android 5.1 and above systems iOS 9.0 and above,

Android system please download at Walkera official website ([www.walkera.com](http://www.walkera.com)) or go to Google play to search for Walker Drone or scan the QR code to download and install;

iOS system please go to the APP Store to search for Walker Aircraft or scan the QR code to download and install.



Android download



Android download



iOS download

## 8.0 APP Main Screen 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, Gimbal and battery.



### 1. Auto Takeoff [ ↑ ]:

Click the button, the aircraft take off automatically.

### 2. Battery Levels return [ 🔋 ]:

The remaining battery power of intelligent flight reaches this point 🔋, the aircraft will automatically return.

### 3. Return [ ⏪ ]:

### 4. Equipment connection status:

Connected or Disconnected.

### 5. The flight time [ ⏳ ] : Aircraft flight time.

6. The aircraft model: Display aircraft flight mode.

### 7. Number of aircraft satellite [ 🛣 ]:

Displays the received satellites of aircraft.

8. 4G signal [ 4G ]: Displays the 4G communication signal strength.

9. The remote controller signal strength [ 📈 ]:

Displays the signal level between remote controller and aircraft.

10. Camera signal [ 📸 ]

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

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

13. Camera Settings [  ]:

Touch icons it has preview settings, recording settings and so on. Under identical Video Size, the larger the stream Rate, the better the picture quality, anyway, the video transmission distance is shortened accordingly.

14. 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.

15. The camera zoom control: divided into wide Angle (W) and telescopic (T).

16. GPS positioning: GPS connected successfully displays "GPS Available", GPS didn't connect displays "GPS Unavailable".

17. 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.

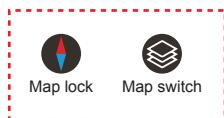
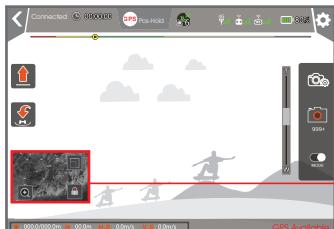
Vertical speed: speed of aircraft in the vertical direction.

18. Return to Home[  ]:

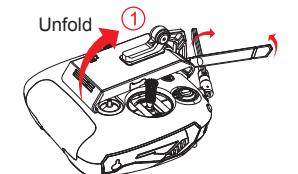
Click the button, the aircraft stop waypoint flying, and return back automatically.

19. A thumbnail map icon:

Click on the thumbnail icon quickly switch to the map interface.



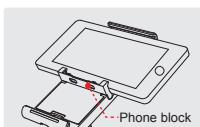
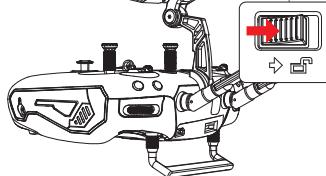
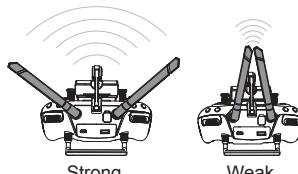
## 9.0 Prepare the Remote Controller



Press the button to release the clamp.



Place your mobile device and adjust the clamp to secure.



When you install the phone, just open the phone block, other operations the same as 2, 3.

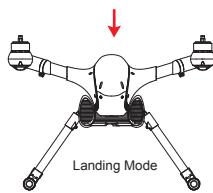
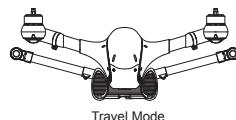
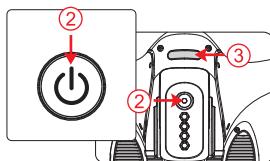
\* Ensure that the aircraft is flying within the optimal transmission zone. To achieve the best transmission performance, maintain the appropriate relationship between the operator and the aircraft.

## 10.0 Prepare the VOYAGER 4

The factory default of the aircraft is Travel Mode. Before flying, connect to power, transform the aircraft to Landing Mode, please don't use the outside force.

- ① Insert the battery.
- ② Power on the remote controller and the aircraft.
- ③ The red LED light flashes until goes out, indicating that IMU preheating is complete and the code binding is successful.  
(Automatically transform the aircraft to Landing Mode.)

Please turn off the remote controller and aircraft after finishing.

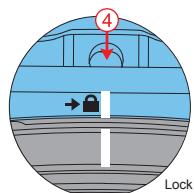
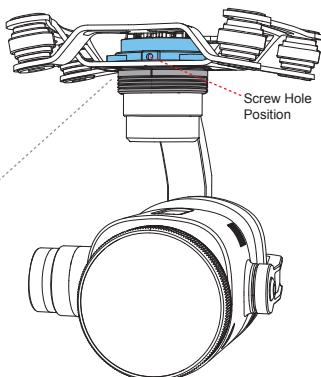
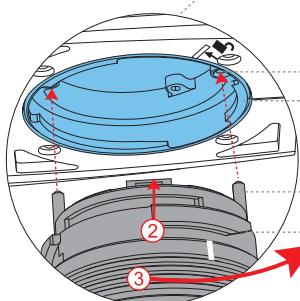
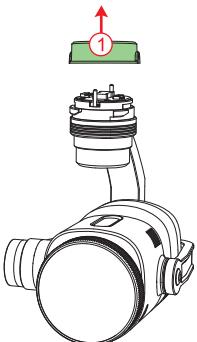


### Attention:

- Transform the aircraft to landing mode, please hold the aircraft so as not to damage the Landing Gear.
- If the red and blue lights are flashing alternately, it indicates the aircraft is not normal, see the APP indications.

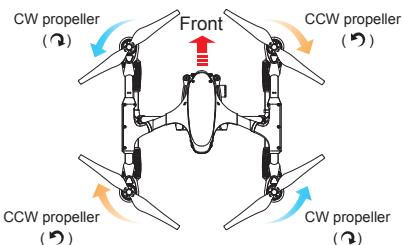
### Install Gimbal and Camera

- ① Remove gimbal cover.
- ② Aim the gimbal positioning column to upper location hole , and rotate the white line of Gimbal lock to unlocked position, align the white lines and insert the gimbal.
- ③ Rotate the Gimbal Lock to the locked position following to the direction of the arrow.
- ④ Tighten M3x3 screws to fix the Gimbal.



## Install propellers

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.



## 11.0 Ready to fly

*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 / Get binding

- ① Power on the remote controller.
- ② Put the aircraft to the horizontal place and power on the aircraft.  
The red LED light flashes until goes out, indicating that IMU preheating is complete and the code binding is successful.  
(If the red and blue lights are flashing alternately, it indicates the aircraft is not normal, see the APP indications.)
- ③ Open Bluetooth and Cellular Data for mobile device.

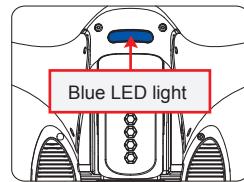
### 11.2 Connect to APP Software

1. Click the icon on mobile device
2. Click "Select Model", select "Voyager 4-4G-4K", and then click "Go to Connect".
3. Select remote controller(RC) , click "Connect".
4. Remote control serial number will pop up automatically, click "serial number and connect".
5. Select the aircraft serial number item, click "Setting".
6. Click "Add", it will pop up the input box.
7. Enter the serial number of the aircraft, and note the name, click "OK".
8. Click "Connect" to enter the main interface.

# VOYAGER 4 Quick Start Guide

## 11.3 GPS indicator light

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



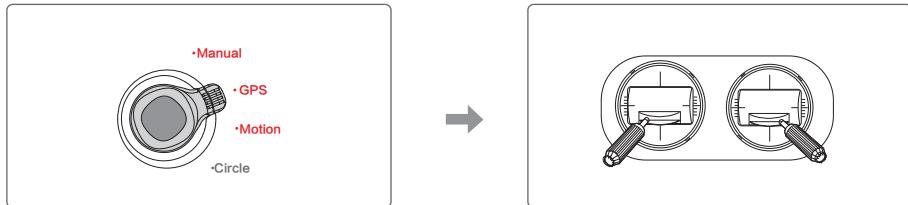
## 11.4 Motor Unlock / Lock

### Motor Unlock

Push the switch to GPS mode or Manual mode or Motion mode, and push the left stick and right stick down and move outward and hold for more than 2 seconds.

You will see the red LED light keeps on, indicating that motors are unlocked.

Motors will start rotating after unlocked, please release the stick.



#### 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

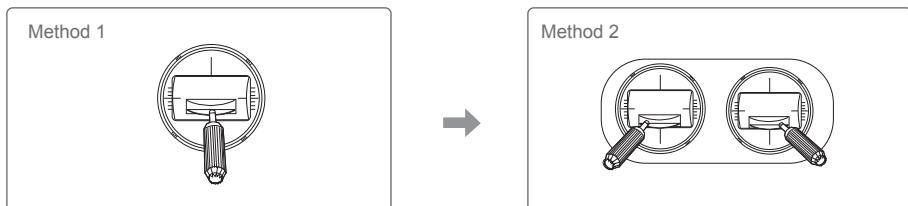
***There are two methods to lock the motors.***

Method 1: When the aircraft has landed, push and hold the throttle stick down.

The motors will stop after 5 seconds.

Method 2: Push the left stick and right stick down and move outward and hold for more than 2 seconds.

You will see the red LED light turns off, indicating that motors are locked.

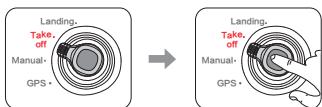


## 12.0 Operation Instruction

- 1) Make sure that the received GPS signal (Blue LED light blinks)
- 2) When the status indication on the top of the APP is shown as “Connected”, then 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 11)

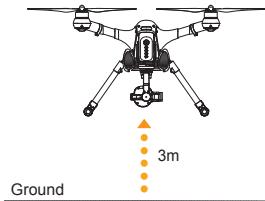


Switch to “Take off” position

Short press the Enter key, aircraft will take off automatically.



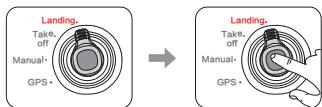
Please click the icon in the APP main interface, then the aircraft will take off automatically.



#### Attention:

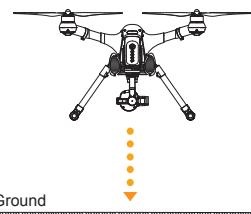
AUTO takeoff default height is 3m, when it need to manual control the throttle, the throttle stick must be pushed to the midpoint or more, that it can remove AUTO takeoff mode.

### AUTO Landing (remote controller operation)



Switch to “Landing” position

Short press the Enter key, aircraft will land automatically.



#### Attention:

- 1) When you used the function of “AUTO landing”, the landing gear of aircraft will be extended.
- 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

Short press the Enter key to enter the GPS hold mode

Throttle stick return neutral



#### Attention:

- 1) The first flight default to GPS Mode after each power on.
- 2) In the GPS mode, there are Altitude hold, fixed point, brake function, the flight speed is slower ( $\leq 5\text{m/s}$ ).
- 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.

Ground

# VOYAGER 4 Quick Start Guide

## Motion mode (Remote controller operation)



Switch to "Common" position



Short press the Enter key to enter the Motion mode

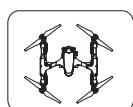


Ground

### Attention:

- 1) In the Motion mode, there are Altitude hold, fixed point, brake function, the flight speed is faster ( $\leq 8\text{m/s}$ ).
- 2) If the GPS signal is poor or no signal, can only be Altitude hold, but not fixed point.
- 3) Switch to manual mode can not be fixed point.

## Circle flight (remote controller or APP operation)



Aircraft in  
GPS hold  
mode



Switch to "Circle flight"  
position



Short 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) 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).



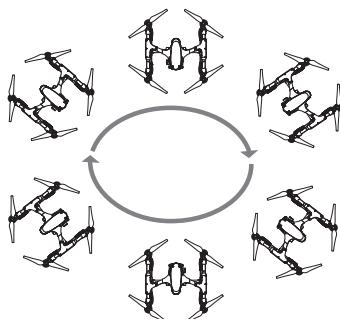
Speed: The larger volatility toggling and longer holding time, the faster circling. The slower the contrary.

- 2) **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)



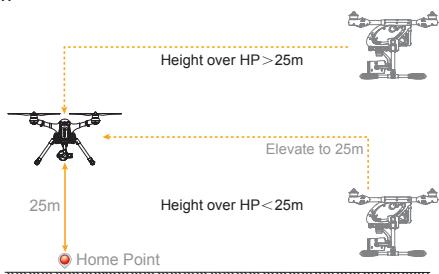
Long press this key(3-5 seconds) on the remote controller and the aircraft will return automatically



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

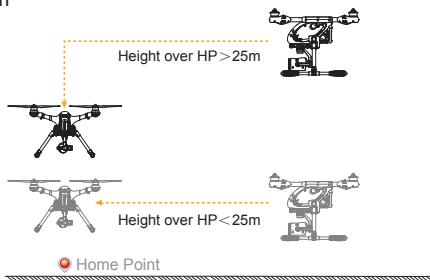
### Aircraft with Home point horizontal distance > 30m

- 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.



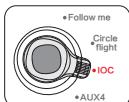
#### Attention:

- 1) To enter a key return, please don't move the other switches and buttons.
- 2) When the aircraft lost the remote controller signal, it will automatically enter Failsafe RTH.
- 3) When the aircraft battery voltage is too low, and aircraft with Home point horizontal distance is greater than 30m, aircraft will automatically turn back. If the aircraft with the Home point horizontal distance less than 30m, aircraft will decrease automatically from the current position and land.
- 4) GPS signal is not normal or GPS does not work, can not achieve the auto return, but will land automatically.

# VOYAGER 4 Quick Start Guide

## Hyper IOC Mode

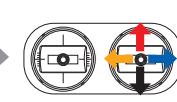
IOC or Intelligent Orientation Control mode means that the aircraft's flight direction is only relative to the original take-off point (where you armed the motors). REGARDLESS of the actual aircraft heading, in this mode you can fly past something and pan the aircraft to frame your shot, without having to worry what direction the aircraft is facing.



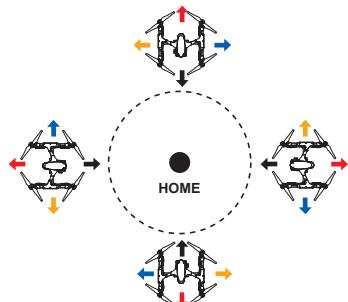
Switch to "IOC" position



Short press the Enter key to enter the Hyper IOC mode



Mode2 (Throttle stick on the left)

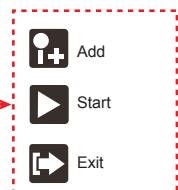


### Attention:

- 1) During flying, the drone will enter hyper IOC mode when the distance between the flight position of drone and the initial position where the GPS signal has been received is more than 10m.
- 2) When under hyper IOC mode, you can make the drone return to the initial position only by holding the stick backwards.

## Waypoint Flight (APP operation)

Click the icon to enter the Waypoint Flight interface.



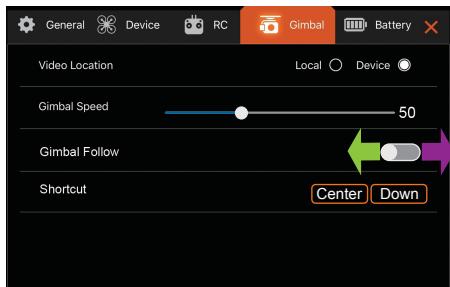
## Waypoints Flight (APP operation)

Click the icon to enter the Waypoints Flight interface.



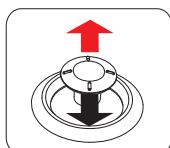
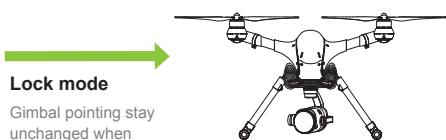
## Control the gimbal (remote controller or APP operation)

Three-axis stabilization gimbal makes the camera steady so that it can shoot stable photos even fly with hight altitude. And you can control pitch and horizontal angle of the gimbal by Gimbal stick on Remote Controller or APP Software.



Switch to GREEN ARROW to Lock mode.

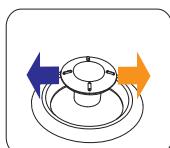
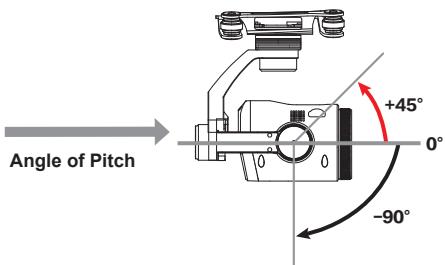
Switch to PURPLE ARROW to Follow me mode.



Gimbal Stick up or down.



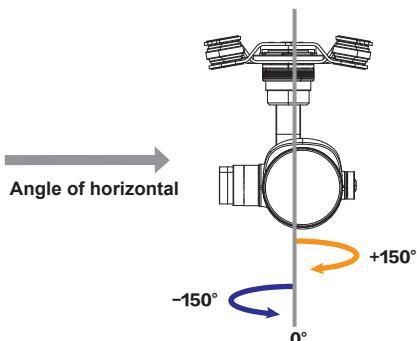
In APP image interface swipe up or down.



Gimbal Stick Left or Right.



In APP image interface swipe left or right.



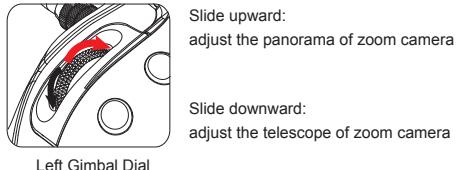
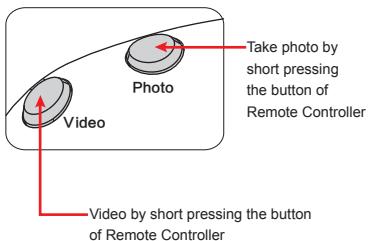
### Attention:

- 1) You must select the mode first and then adjust the angle. In follow me mode, the horizontal angle (YAW) is not adjustable.
- 2) Gimbal stick position determines the rate of change of the gimbal: when the stick located at the midpoint the velocity is zero, the greater the offset of the stick gimbal changes faster, whereas the slower.

# VOYAGER 4 Quick Start Guide

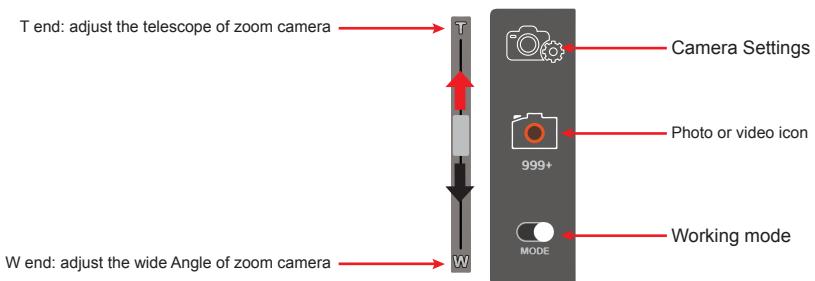
## Video and photo (remote controller or APP operation)

### • Remote Controller Operation

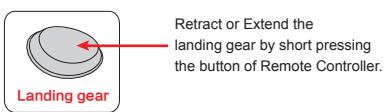


### • APP Operation

- 1) Choose working mode: photo or video
- 2) Touch the Photo or video icon to take photo or video



## Landing gear Extended and Retracted (remote controller operation)



### Attention:

- 1) Make sure the landing gear retracted after the aircraft takes off.
- 2) When the aircraft lands manually, extend the landing gear.
- 3) In the "RETURN TO HOME" Mode, the landing gear will extend automatically till the flight end.

## 13.0 End flight

- ① Manual landing or return to home function landing.
- ② First, Power off the aircraft, then turn off the Remote Controller.
- ③ Finally, remove the battery from the aircraft.

## 14.0 Additional remarks

### 14.1 Introduction for FCS-V4 Main Flight Controller

#### Flexible flat cable connection

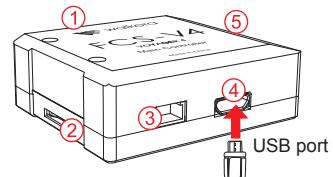
The metal surface of flexible flat cable plug should be inserted upward to main controller port properly.



The metal surface of flexible flat cable plug should be inserted downward to power board port properly.

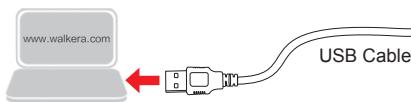
#### Port introduction

1. GPS Port: connect GPS module
2. Micro SD: Micro SD card slot
3. UART Port: not used
4. USB port: used for upgrading
5. Connection port: used to connect flexible flat cable



#### Upgrading

Please upgrade online via  
Walkera official website



### 14.2 Compass Calibration

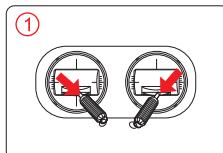


#### Attention:

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

#### The compass calibration steps are as follows:

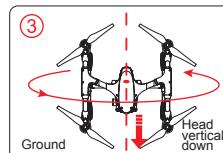
- ① Do this by moving both sticks DOWN and to the middle position at the same time about 5 seconds, the aircraft red LED light flash quickly.



- ② Rotate the aircraft 360 degrees in the horizontal direction .



- ③ Rotate the aircraft in the vertical direction (aircraft head down) 360 degrees until red LED light turn off, 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.



## 14.3 Remote Controller stick mode switch and stick calibration



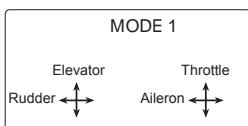
Tip:

- DEVO F18 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.

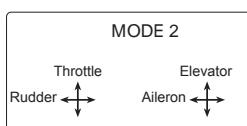
### Stick Mode Switch

Enter stick Mode switch	1. Long press “  ” 3~5 sec ..... ➤ When power indicate lights off, enter the stick mode switch. 2. Short press “  ” ..... ➤ Choose MODE 1、MODE 2
Exit stick Mode switch	3. Long press “  ” 3~5 sec ..... ➤ When power indicate lights up, exit the stick mode switch.

MODE 1 is right-hand throttle



MODE 2 is left-hand throttle



power indicate lights  
match the stick mode



※ Customization also supported in APP software.

### Stick Calibration:

Long press “ ” 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 “ ” 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.

## 14.4 Introduction for DEVO-RX715 receiver

### Flexible flat cable connection

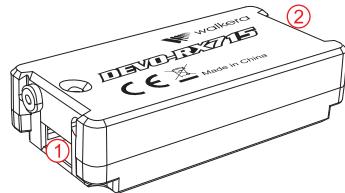
The metal surface of flexible flat cable  
cable plug should be inserted  
upward to receiver port properly.



The metal surface of flexible flat cable  
plug should be inserted downward to  
power board port properly.

### Port introduction

1. Idle port: Not used
2. Connection port: used to connect flexible flat cable



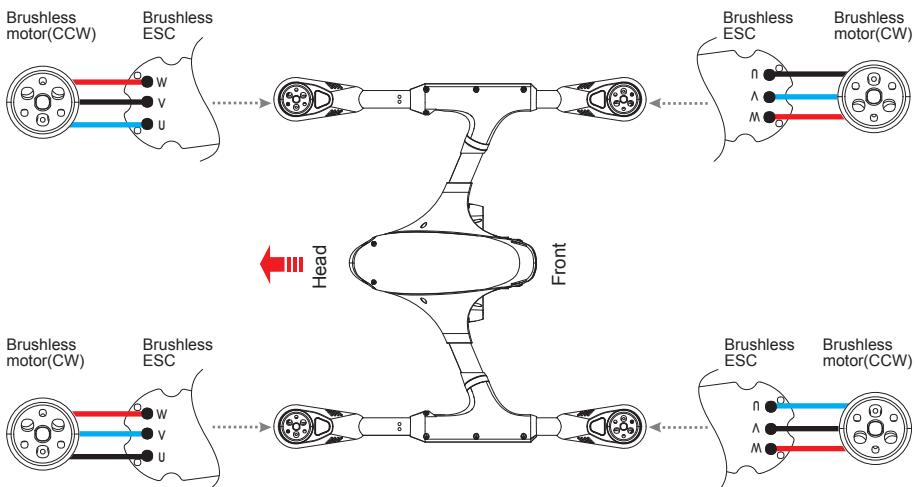
### DEVO F18 Remote Controller customize Fixed ID

Long-press "Video" button for 3-5 seconds, when the "drop" sound

to set the fixed ID. (for the first time to set fixed ID code, Battery Level indicator (10) (20) (30) (40) flashes from left to right and then all the light solid.)

Long-press "Video" button 3-5 seconds again, when the "drop drop" sound to clear the fixed ID.

## 14.5 Brushless ESC and Brushless Motor connection diagram



#### Attention:

- The red, blue and black wires of the brushless motors must be soldering to the brushless ESC according to the illustration.

## **15.0 Intelligent Flight Battery Safety Guidelines**



Attention:

- Store Intelligent Flight Batteries in a ventilated location.
- To avoid fire, serious injury, and property damage, observe the following safety guidelines when using, charging, or storing your batteries.

### **15.1 Battery Use**

- 1) DO NOT allow the batteries to come into any kind of liquid. DO NOT leave batteries out in the rain or near a source of moisture. DO NOT drop the battery into water. If the inside of the battery comes into water, chemical decomposition may occur, potentially resulting in the battery catching on fire, and may even lead to an explosion.
- 2) Never use non-walkera batteries. Go to [www.walkera.com](http://www.walkera.com) to purchase new batteries.  
Walkera takes no responsibility for any damage caused by non-walkera batteries.
- 3) Never use or charge swollen, leaky, or damaged batteries. If your batteries are abnormal, contact Walkera or a walkera authorized dealer for further assistance.
- 4) Never install or remove the battery from the aircraft when it is turned on. DO NOT insert or remove batteries if the plastic cover has been torn or compromised in any way.
- 5) The battery should be used in temperatures from -10°C to 40°C. Use of the battery in environments above 50°C can lead to a fire or explosion. Use of battery below -10°C the life cycle of battery will be damaged.
- 6) DO NOT use the battery in strong electrostatic or electromagnetic environments. Otherwise, the battery control board may malfunction and cause a serious accident during flight.
- 7) Never disassemble or pierce the battery in any way or the battery may leak, catch fire, or explode.
- 8) Electrolytes in the battery is highly corrosive. If any electrolytes contacts with your skin or eyes, wash the affected area with fresh running water at least 15 minutes, and then see a doctor immediately.
- 9) DO NOT use the battery if it was involved in a crash or heavy impact.
- 10) If the battery falls into water with the aircraft during flight, take it out immediately and put it in a safe and open area. Maintain a safe distance from the battery until it is completely dry. Never use the battery again and dispose it properly.
- 11) DO NOT put batteries in a microwave oven or in a pressurized container.
- 12) DO NOT place loose battery cells on any conductive surface, such as a metal table.
- 13) DO NOT put the loose cells in a pocket, bag or drawer where they may short-circuit against other items or where the battery terminals could be pressed against each other.
- 14) DO NOT drop or strike batteries. DO NOT place heavy objects on the batteries or charger. Avoid dropping batteries.
- 15) Clean battery terminals with a clean, dry cloth.

### **15.2 Battery Maintenance**

- 1) Never over-discharge, as this may lead to battery cell damage.
- 2) Never use the battery when the temperature is too high or too low.
- 3) Battery life may be reduced if not used for a long time.



Manufacturer: Guangzhou Walkera Technology Co.,Ltd.  
Add: No.48 Wantai Rd, Taishi Industrial Park, Dongchong Town,  
Nansha Dist, Guangzhou, China.511453  
Hotline:+86 20-84915115

