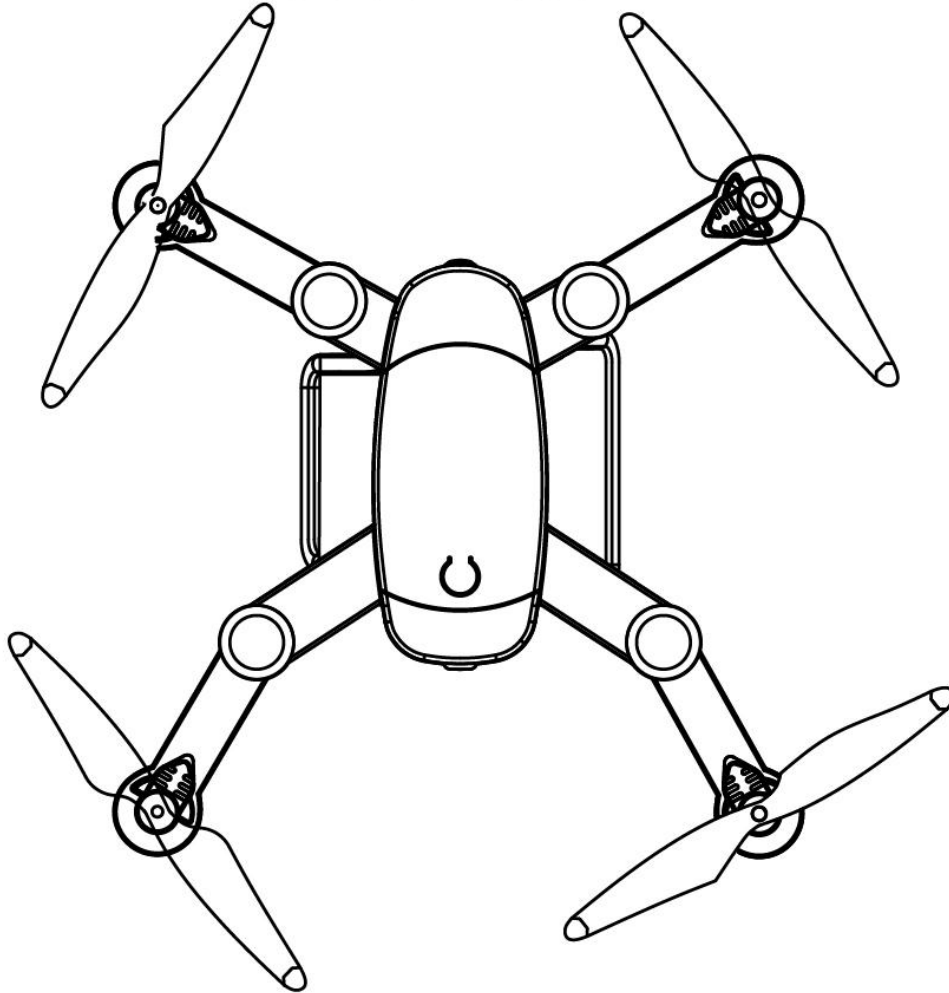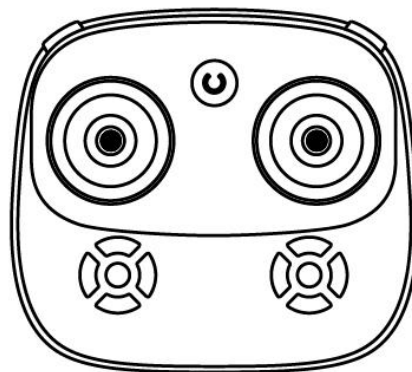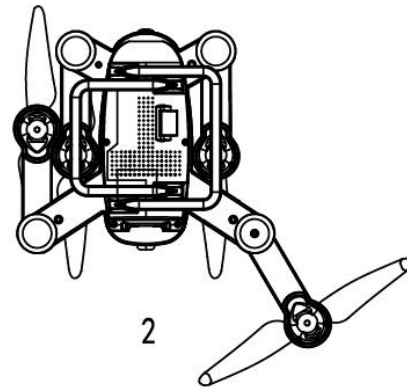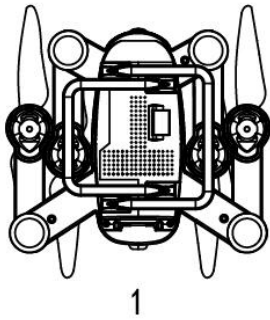14+
Ages

# Instruction Manual of F16W/F16V Quad-rotor

## Important

Important! Before you begin, please read the Safety Warnings listed below. Failure to comply with the following recommendations could lead to injuries. The RC aircraft is not intended for those under 14 years of age without proper adult supervision.
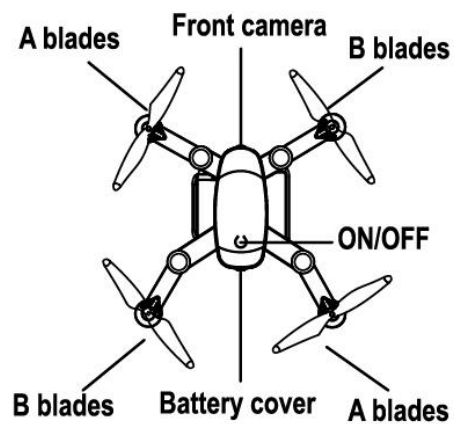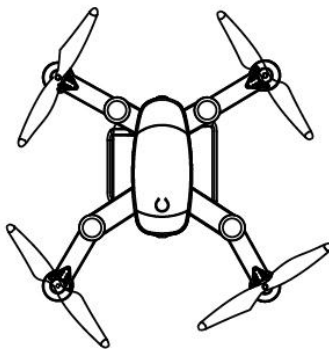
# The aircraft stretched out



1



2

1. when you receive the aircraft, it defaults to the fold state,
At this time, the arms of the aircraft are rotated outward to the
corresponding position (Fig. 2)

Note: when deployed, do not push again to the outside. This will
damage the arm structure



A blades    Front camera    B blades

ON/OFF

B blades    Battery cover    A blades

2.When the four arm is extended, start the bracket again

## Know your aircraft

Remove the lamp shade and
the damaged fan screw, and
replace the roller assembly
manually to prevent the
component from falling off
when replacing the fresh air blade

**Speed switch key**

**ON/OFF**
(Long press shutdown)

**Flips button**

**Headless mode**
**One key take Off/landing**
**Camera**
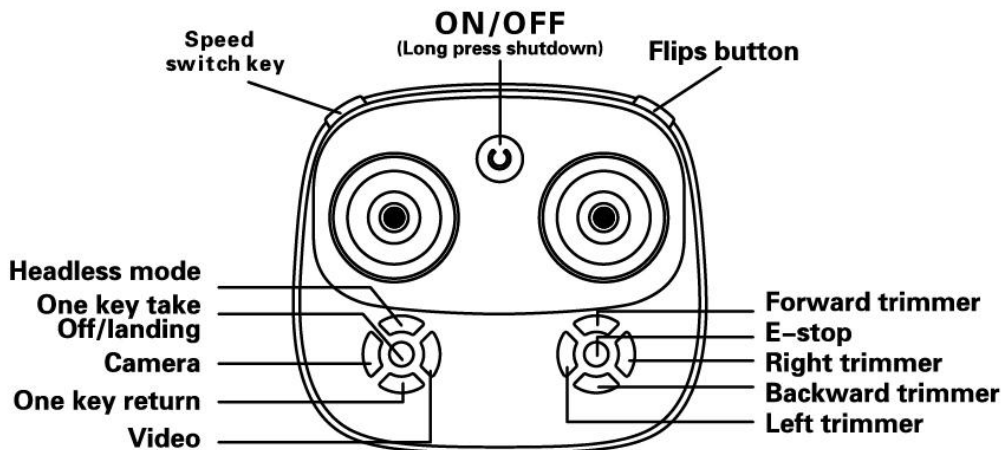**One key return**
**Video**

**Forward trimmer**
**E-stop**
**Right trimmer**
**Backward trimmer**
**Left trimmer**
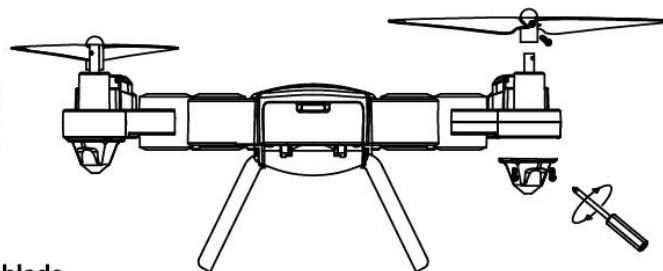
## List of product configuration and parameters:

| | |
|---|---|
| Configuration list: aircraft x 1, remote control x 1, 3.7V lithium–ion battery (built–in),Screwdriver x 1,Instruction,USB x1,manual x 1,Attached to the blades x 1 Set of. | |
| Aircraft battery: 3.7V850mA lithium batteries (built–in) | Remote control radius: 50meters |
| The remote control battery: 4 grain of 1.5 v "AA" battery (Another purchase) | The flying time: about 9 minutes |
| Aircraft size: Length 322mm * Width 313mm * High 98mm | Aircraft weight: 150 g |

## ⚠ Warning:

*Please follow the instruction or packing instructions for proper installation and use. Some parts are assembled by the adult.

*The product contains small parts, eating or possible choking hazard

*Please put away the packing material in time, so as not to cause harm to children.

*Need to regularly check the charger, wire, plug, shell and other components, found that damage, should stop using, until the repair.

*The charger, the battery pack, and the charging device must be inserted in the same power as the product labeling.

*Can only use the original configuration of the charger, the charger is not a toy.

*Clean toys should be disconnected from the charger.

*Non rechargeable battery.

*When charging the rechargeable battery, the need for adult guardianship.

*Do not mix old and new batteries or batteries of different types, the exhaustion of the battery should be promptly removed.

*Do not short–circuit the battery, break down, or fall into the fire.

* Long time does not control the product, please take out the battery.

*Do not touch the rotating parts, to avoid causing harm to the body

*Please do not serious impact or drop aircraft and remote control. Clean the product with a clean, soft cloth.

* Users are responsible for ensuring that the product will not cause damage toitself or others, and that the

* manufacturer or distributor does nottake any responsibility for the operationof the damage caused by improperoperation of their own or otherpeople's safety.

## Battery loading of the transmitter:

1. As the right picture shown, remove the battery cover of the transmitter. As the polarity shown in the battery compartment, please correctly load 4PCS "AAA" batteries (not included). Then please load the battery cover and tightly screw it.

⚠ 2. Caution:
a. When loading the battery, please make sure correct the polarity of the battery and battery compartment. Please DO NOT load the batteries upside down.
b. Please DO NOT mix the old batteries with the new ones or batteries of different types.
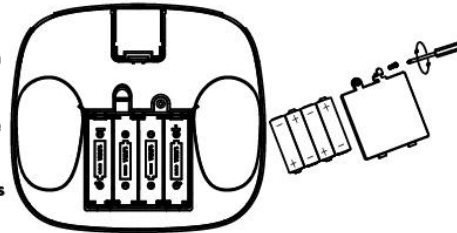


## Charging Instruction of the lithium battery
(please DO remember to pull the ON/OFF power switch to the "OFF" position before charging.) :

1. insert the USB charging line into the USB interface of the computer that has been turned on, or use the mobile phone adapter to output 5V charging current 1–2A, when the USB indicator goes out.

2.Connect the other end of the USB charging line to the battery plug properly, and the USB indicator goes off to indicate that it is charging.

3.Charge for about 90 minutes. The USB indicator lights up, indicating the charging is complete. Please disconnect all connections and place them in a safe position. Charge for about 90 minutes. The USB indicator lights up, indicating the charging is complete. Please disconnect all connections and place them in a safe position.



LITHIUM BATTERY

INDICATOR LIGHT
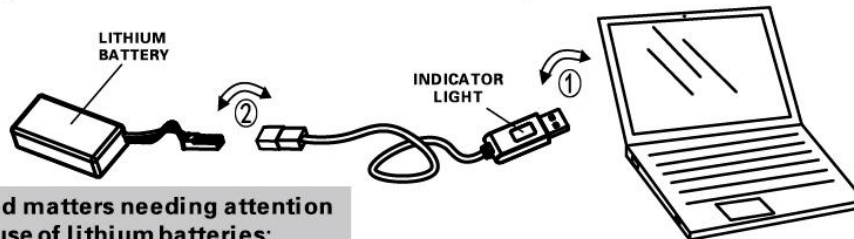
## Related matters needing attention in the use of lithium batteries:

A, charging, the staff do not leave and charging time is not too long, charging process found the battery, please stop charging, avoid battery damage or fire, etc..

B, do not put the battery in the inflammable and explosive goods next to charge, when the battery in the use or charging process, once the smell or battery suddenly become hot, deformation, discoloration and other abnormal phenomenon, please stop using the battery.

C, if the battery leaks, avoid contact with skin and eyes. If contact with skin and eyes,rinse immediately with plenty of cold water and immediately seek medical attention.

D, can only use the original charger to charge the product to the product, and determine the charger voltage to meet your local standards.

E, do not put the battery into the fire, microwave or pressure tank.

F, please do not use solvents, industrial alcohol or other flammable solvents to clean the product and the charger.

G, products include plastic, electronic components and battery components, please do not use such items as daily garbage disposal, please according to the local garbage collection requirements, the classification process.
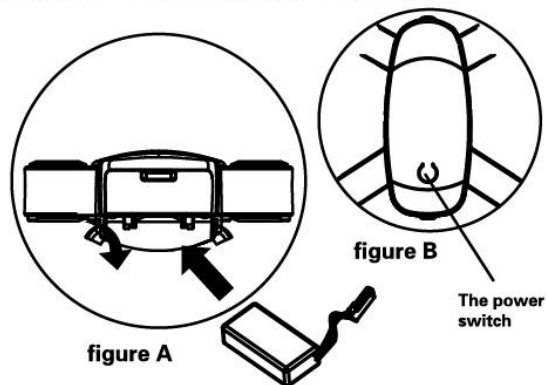
## Preparation before operating the aircraft.

### 1. Battery loading and power connection:
Load the battery into the battery compartment as the picture A shown and then well connects with the power plug.

### Caution:
When connecting the power plug, please do recognize well the "+" "–" polarity, say red line to red line.



figure B

The power switch

figure A

2

## Decoding operation:

As shown in figure B, press the power switch, then point the tail of the aircraft to me and place it on the flat ground. The light of the aircraft is flashing fast and not moving the fuselage.
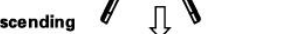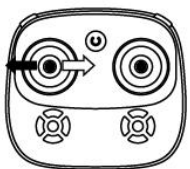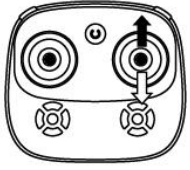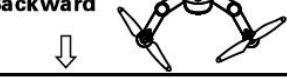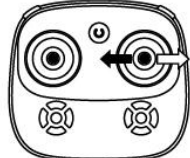
2.Press the "ON/OFF" of the transmitter, this time you will hear one sound of "di" sending out from the transmitter, and then please push the throttle lever to the highest position and then pull it to the bottom, this time you will hear one sound of "di" from the transmitter. This time the power indicator of the transmitter and the LED light of the Quad–rotor will keep eternal bright "ON", which represents the decoding is successfully finished and you can operate and control the Quad–rotor.

## Aircraft starting / landing control method:
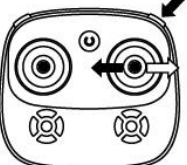(only for F16 high configuration version, general version without this function)

### A:START/LANDING

1. Press the "START/LANDING" key to switch on the aircraft, this time the motor of the aircraft will be running in slow speed. Push upward the throttle lever, the aircraft will take off.
2. During the process of flying, press the "START/LANDING" key, the aircraft will be descending in slow speed until stop flying and landing on the ground.

### B:Emergency Stop:

During the flying process, in case that the aircraft is fallen off by accident or meeting the danger, please press the Emergency Stop key, this time the aircraft will stop working quickly.

**START /LANDING**      **Emergency Stop**

Tips on Height Setting: Push upward the throttle lever and the aircraft will be ascending to the assigned height . Then please loosen the throttle lever and the aircraft will be flying steadily as per this height.

## Normal control method of aircraft

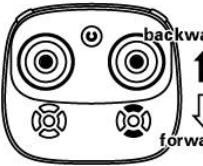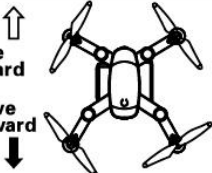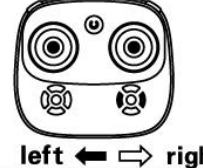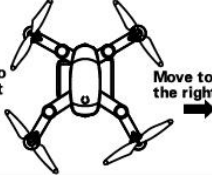| | | |
|---|---|---|
| Ascending ⬆ / Descending ⇩ | | When pushing the throttle lever upward, the aircraft will be ascending; When the throttle lever is pushed down, the aircraft drops; |
| Turn–left / Turn–right | | When pushing the throttle will be turning left. When the throttle lever is pushed to the right, the aircraft turn right. |
| Forward ⬆ / Backward ⇩ | | When pushing the direction lever upward, the aircraft will be advancing forward. When the direction of the lever back to pull down the aircraft. |
| Left –side ⬅ / Right –side ⇨ | | When pushing the direction lever to the left, the aircraft will be flying to the left side. When the direction of the joystick to the right, aircraft fly on the right side. |

3

# Aircraft rolling operation method

| | | |
|---|---|---|
| **Press the roll key first** | **Tumbling forward** / **Tumbling backward** | When pushing the direction lever upward, the aircraft will be tumbling forward. When the direction of the lever is pulled down, the aircraft turn. |
| **Press the roll key first** | **Tumbling to the left** / **Tumbling to the right** | When the direction of the joystick to the left, the aircraft left turn. When the direction of the joystick to the right, aircraft right turn. |

Tip: Please fly the aircraft to more than 3 meters height, and then rollover control.

## Trimming & Calibration of the Quad-rotor:

Push slowly the throttle lever. When the aircraft ascending till about 1.5 meters, if the aircraft make spinning in the air or titling toward different direction, you can use Trimmer to correct the action.

Caution: When the aircraft flies 30cm above the ground, the aircraft may become unstable due to the turbulence produced by its own blade. This is called "Gravity Reaction". The lighter of the weight of the aircraft, the bigger affection of the "Gravity Reaction" it may be.

| | | |
|---|---|---|
| backward / forward | **Move forward** / **Move backward** | When deviating toward forward, please trim it to the back until it is well repaired. when trimming to before adjustment, until repaired |
| left ← → right | **Move to the left** / **Move to the right** | When deviating to the left, please trim it to the right until it is well repaired. The bias to the right, fine-tuning adjustments to the left, until the repair. |
| | If the Quad-rotor can not ascend vertically when taking off, please make calibration to the Quad-rotor. In the meantime, please pull the throttle lever and direction lever to the down left corner. This time the indicator of the Quad-rotor will be quickly flashing, then please release all the actions of the transmitter. Wait until the indicator keeps eternal bright "ON" and the calibration is finished. | |

## Operating method of the non-head mode of the Quad-rotor:
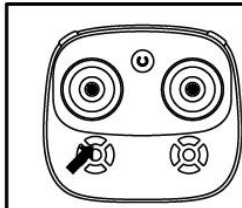


1、Firstly, please kindly confirm the Forward Direction before entering into the non-head mode. Press the key of the non-head mode, The remote controls the "di" sound and the aircraft lights flicker into the headless mode at this time,Regardless of the Quad-rotor rotating to either direction, its flying direction will be following the direction when it is decoded.

2、If you need to exit the non-head mode, please press the key of non-head mode to exit. When hearing one sound of "di" sending out from the transmitter, it represents it has entered into the ordinary mode.

## Operating instruction on One-key Return of the aircraft:
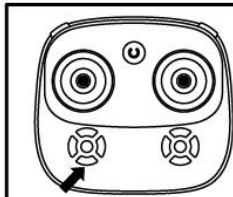


1. Press the "One-key Return" key, the transmitter will send out inter-mitten sound "Di, Di" , this time it has entered into the "One-key Return Mode" , the aircraft will be flying backward slowly as per the backward direction the decoding is made.

2. When the aircraft is flying too closed to you, please DO NOT press "One-key Return" key so as to avoid being wounded by accident due to carelessness.
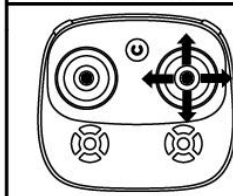


When entering "One-key Return Mode" , simply pushing the Direction Lever toward either direction(forward or backward or to the left or to the right) can exit from the "One-key Return Mode" .

## Camera / video instructions (Only for F16V/F16 5.8G)

### SD card installation:

As shown in the diagram, the SD card will be correctly inserted into the camera module, SD card slot, light click, SD card insertion, and then click, SD card automatically pop-up.
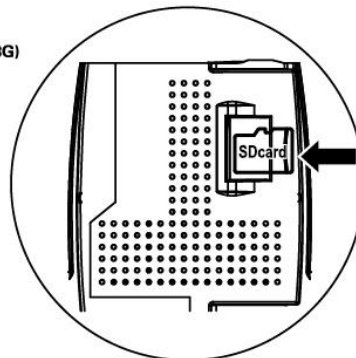


### Take pictures:
Press the remote control camera key, the bottom of the aircraft red indicator flashes, the aircraft is shown to take a photo, and the photos automatically deposited SD card.

### Video:
Press the video key, the bottom of the aircraft red indicator light has been on, indicating that the aircraft is video recording;Press the video key again, and the red indicator goes out, which means the aircraft is out of record,The video is automatically stored in SD card.

(Tip: the bottom of the aircraft red indicator flashing, indicating that the aircraft has power, but there is no SD card or SD card is not inserted.)

5

### Read SD card contents:

Power off the aircraft, the SD card out, through the reader connected to the computer or directly to the SD card into the phone, using the corresponding format of the player to play video and view photos.

## Precautions:

1, when the remote control or the aircraft power is low, the remote distance affected.
2, if the aircraft power is low, there will be flying high enough or take off difficult.
3, if the aircraft appeared damaged, deformation please timely repair, severe wind leaves broken or damaged do not fly, Doing so may result in injury.
4, the long-term is not used when the remote controller of the battery to prevent damage to the product from battery leakage.
5, cut can not let the aircraft crashed from a height or a serious collision, this will damage the aircraft or shorten the aircraft Life.
6, in order to ensure the stability of the aircraft, when the aircraft hit to the real object and then fall back, place the aircraft placed Level ground to stay for 2-3 seconds, until the aircraft automatic detection level, and then manipulate.

## Problem Solving Guidelines:

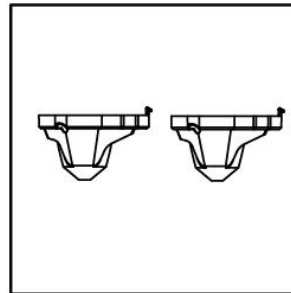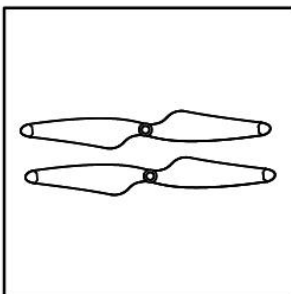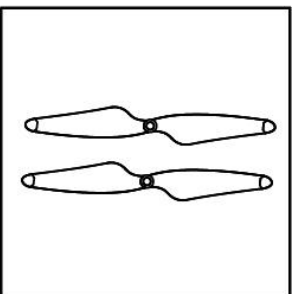| Question | Reason | Treatment |
|---|---|---|
| Powered, can not control | 1, Remote control and aircraft power supply bad | 1, check and in accordance with the battery installation instructions to install Fully charged battery, and the code. |
| | 2, the remote control and aircraft to code without success | 2, according to the front of the code description, re code |
| Aircraft severe shock | 1, the rotor deformation | 1, the replacement of the new corresponding rotor |
| | 2, hollow shaft bending | 2, the replacement of the new hollow shaft |
| Aircraft from total flying to one side | 1, the rotor deformation | 1, the replacement of the new rotor |
| | 2, there is a motor damage | 2, the replacement of the new corresponding motor |
| | 3, the code, the aircraft is not flat | 3, the aircraft on the horizontal plane, the re code |
| Out of control | 1, beyond effective remote control distance | 1, please ensure that the radius of 100 meters control |
| | 2, the code, there are a number of aircraft at the same time Open the power supply | 2, please re code (multi aircraft to the code, the need to code one by one, to avoid the right or wrong or not) |
| Flying aircraft is not high | 1. rotor rotation speed is too slow | 1. Push the throttle lever up slowly |
| | 2, the aircraft battery power is inadequate | 2, replace the full battery, or the battery is full of electricity, and then control |
| The landing is too fast | Too fast to throttle lever back | When the aircraft drops, slowly pull back to the throttle control lever |

6

## Accessories selection:
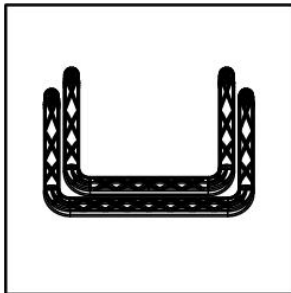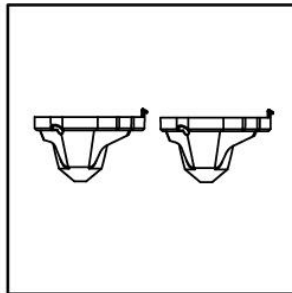
| | | |
|---|---|---|
| **Tripod** | **Red Lampshade** | **Blue Lampshade** |
| **A Reverse** | **B Reverse** | **Forward Motor** |
| **Inversion Of The Motor** | **Lithium Battery** | **Usb Charging Line** |
| **Telecontroller** | | |
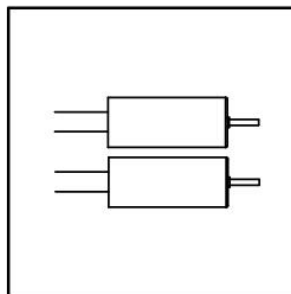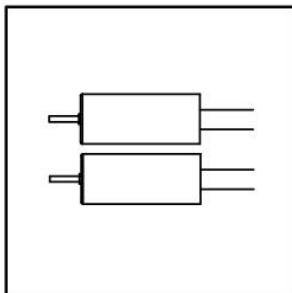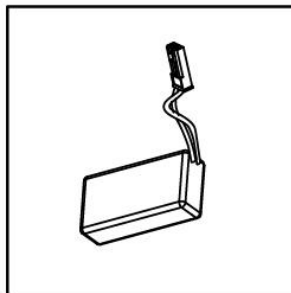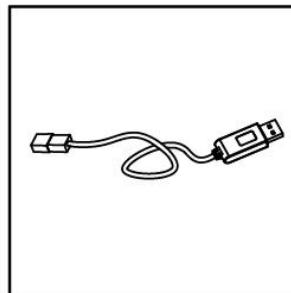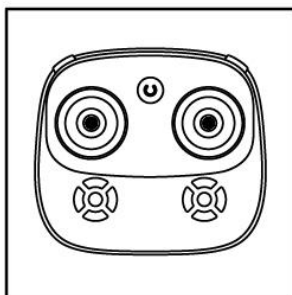
**Operating method of using the Wi-Fi mobile to control
the aircraft & operating method of the image-transmitting function**

## Download of the application program

* If your mobile is Apple Series,please directly connect with
  APP Store,search and download the exploration UFO
  software;You can also directly scan the QR code on the
  right side or on the color box and then conduct downloading
  and installoation.

* If your mobile is Android series,the oversea customer can
  connect the Google Plsy Store for downloading the VS-UFO
  software for installation;You can also directly scan the OR
  code on the right side or on the color box and then conduct
  downloading and installation.

* For china subscriber,please search and download VS-UFO
  software from the Android Market and make installation;
  You can also directly scan the QR code on the right side
  or on the color box for downloading and installation.

IOS

Google

Android

## Connecting method of Wi-Fi:

1.please switch on the aircraft by referring to the instruction manual
2.Entering into the setup of the mobile---Wifi function,open the WiFi switch and select the WiFi
signal (FLD-******)sent form the aircraft,directly connect it successfully and then exit the
interface of setup.

8

## Operating method of the application program:

1. Find the icon VS-UFO software installed in the mobile,click and open the FrontPage as picture 1 shown,click " ▶ " to enter into real-time image transmitting,as picture 2 shown,then click OFF in the operating switch to enter into operating interface as picture 3 shown,this time the aircraft will show eternal bright "NO" and you can control the aircraft

(if the remote control has been connected to the aircraft, please turn off the remote control to control the phone)

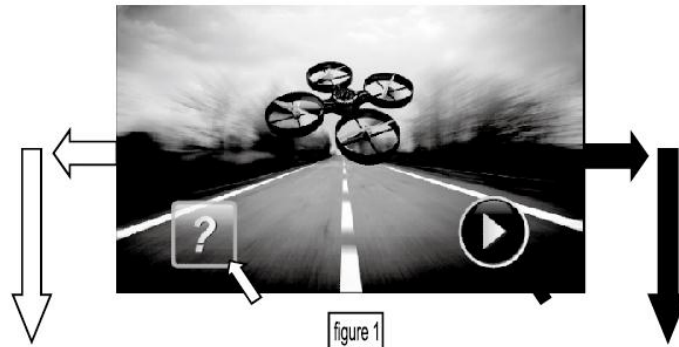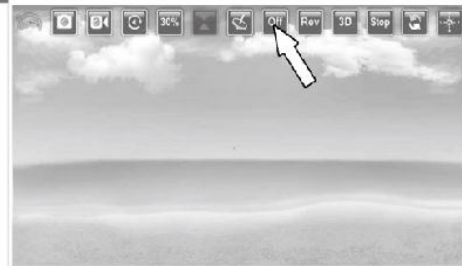2.If the aircraft has air pressure, please click (picture 2) and click the bar button to switch.
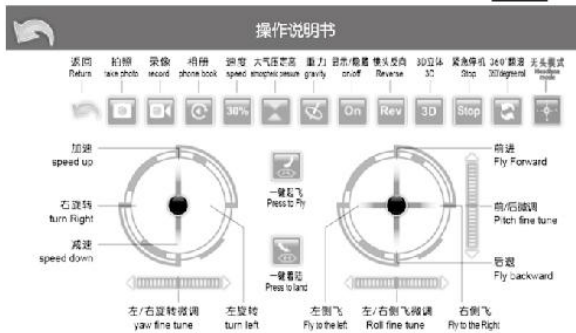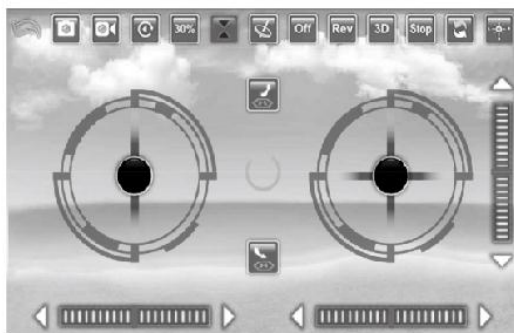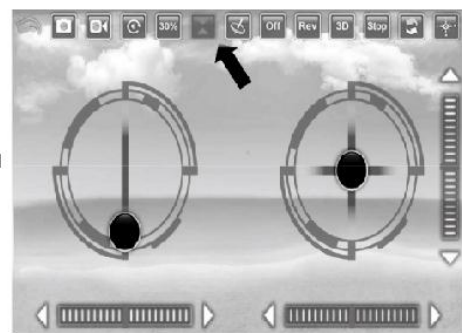


figure 1

figure 2

figure 4

figure 3

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:

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

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.

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