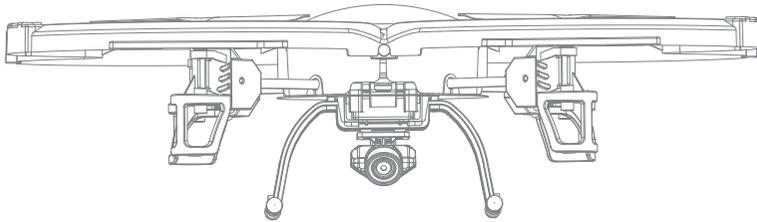


DISCOVERY WiFi



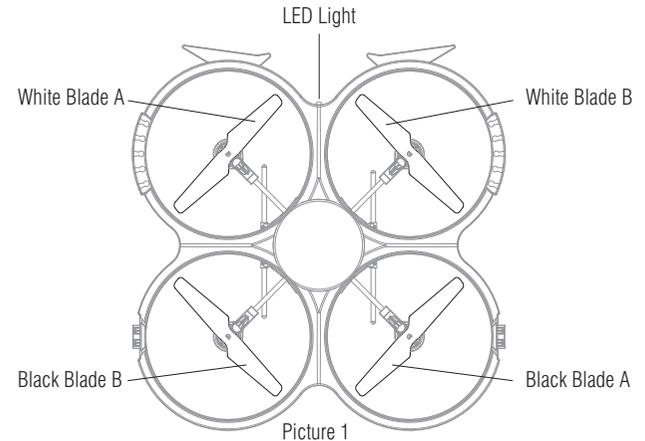
service@unicdrone.com

U818A WIFI



Name of Parts

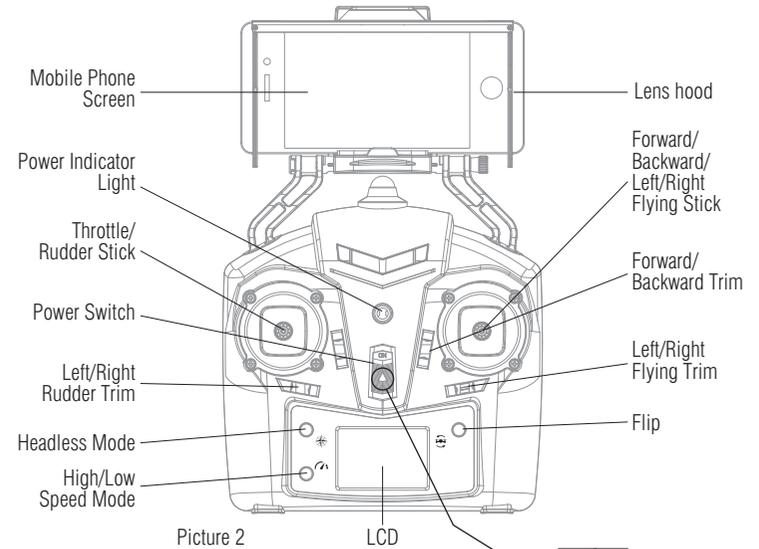
1. Drone



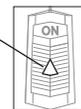
Picture 1

There are A/B letters marked on the blades, and they have to be installed at the same positions as the picture 1 shows.

2. Transmitter



Picture 2



Power On Direction

Notice:

1. Important Statement:

- (1) This product is not a toy but a piece of complicated equipment which is integrated with professional knowledge by mechanic, electronic, air mechanics, high-frequency emission etc., so it should be installed and adjusted correctly to avoid accidents. The user must always operate in a safe manner. We undertake no liability for human injury or property damage caused by improper operation as we could not control the procedure of installation, use and operation of this drone.
- (2) This drone is suitable for those experienced RC drone user aged 14 years or more.
- (3) The flying field must be legally approved by local government.
- (4) We undertake no liability for those accidents caused by improper operation, use and control of the drone after sale of the product.
- (5) We have entrusted the distributor to provide technology support and after-sale service. If you have any questions about use, operation, repair etc., please contact local distributor.

2. Safety Precautions:

Keep away from crowd when flying because a flying RC drone is very dangerous. Improper assembly, broken main frame, defective electronic equipment or unskilled operation all may cause unpredictable accidents such as drone damage or human injury. Please pay special attention to safety operation and have good knowledge of accident responsibility that the user may cause.

(1) Keep away from obstacles and crowd

The speed and status of a flying RC drone is uncertain and it may cause potential danger. So the user must keep away from crowd, tall building, power lines etc. when operating a flying RC drone. Forbid flying a RC drone in rainy, storm, thunder and lightning weather for the safety of user, around people and their property.

(2) Keep away from humid environment

The drone inside is consisted of precise electronic components. Humidity or water vapor may damage electronic components and cause accident.

(3) Safe operation

Please operate the RC drone in accordance with your physical status and flying skill. Fatigue, listlessness and improper operation may increase the rate of accident.

(4) Keep away from rotating parts

Keep your face and body as well as all spectators away from rotating parts, which may cause serious injury and damage.

(5) Keep away from heat

The RC drone is made of metal, fiber, plastic, electronic components etc. Keep away from heat and sunshine to avoid distortion and damage.

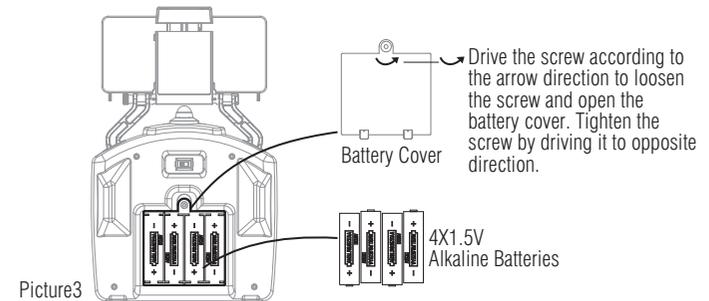
3. Check List Before Flight

- (1) Flying field must spacious enough and we suggest at least 8M (length)*8M (width)*5M (height).
- (2) Make sure the battery of the drone and its transmitter are fully charged.
- (3) Make sure the Throttle Control Stick of the transmitter in the lowest position.

- (4) Please strictly obey the order of turn on and turn off before operation. Turn on the transmitter power first and then turn on the drone power before flying; turn off the drone power first and then turn off the transmitter power when finish flying. Improper turn on and turn off order may cause the drone out of control and threaten people's safety. Please cultivate a correct habit of turn on and turn off.
- (5) Make sure the connection is solid between battery and motor etc. The ongoing vibration may cause bad connection of power terminal make the drone out of control.
- (6) Improper operation may cause drone crash, which may arouse motor defective and noise, and then effect the flying status or even stop flying. Please go to the local distributor to buy new parts for replacement so that the drone will return to its best status.

Transmitter Installation:

Battery installation: open the battery cover on the back side of transmitter and put 4 alkaline batteries (excluding) into the box in accordance with electrode instructions.



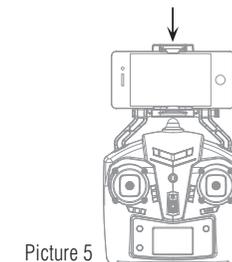
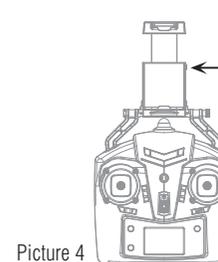
Picture3

Notice:

1. Make sure the electrodes are correct.
2. Do not mixed use new and old batteries.
3. Do not mixed use different kinds of batteries.

How to install the mobile phone

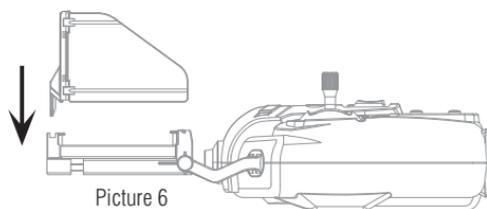
1. Press the self locking switch on the side, push the mobile phone holder to utmost as Picture 4.
2. Put the mobile phone on proper place and pull back the mobile phone holder and press tightly as possible as you can to avoid the fall of mobile phone (please note that do not touch the mobile phone button) as Picture 5.



Picture 4

Picture 5

3. Insert the lens hood to the slot and make sure the low edge of the lens hood next to the mobile phone closely as Picture 6.



Charging Method of Li-Po Battery

1. Connect the USB wire with one of the USB port listed in the below picture first, and then connect the drone battery with the USB wire. (prior to choose 2A, 5V charger)
 2. After connecting the USB wire with the USB port, the green USB indicator light keeps bright. After connecting the USB wire with the drone battery, the red USB indicator light keeps bright. About 50 minutes later, the light turns to green and keeps bright when fully charged.
- * Li-Po battery is included in spare parts and please pay attention on the safe notice.
 - * Never put the battery on high temperature place, such as fire or heating device to avoid damage or explode.
 - * Never use the battery to crash or hit hard surface.
 - * Never put the battery in water. Keep it in dry place.
 - * Never detach the battery.
 - * Never leave the battery without supervision when charging.

Charging Methods



NOTE: For faster charging, it is recommended to use a 5V 2A Adapter (not enclosed) to charge the battery.



Li-Po Battery Disposal & Recycling

Wasted Li-Po batteries must not be placed with household trash.
Please contact local environmental or waste agency or the supplier of your model or your nearest Li-Po battery recycling center.



Additional Instruction before Flying:

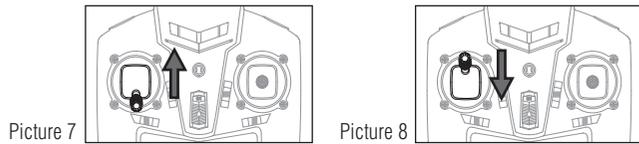
1. The white light is front (head).
2. Power on the drone and check the rotating blades. The left front/right rear blades rotate towards clockwise direction while the right front/left rear blades rotate towards counterclockwise direction.

- Adjust relative transmitter Trim button to adjust the rudder if the drone tilts to one side when flying.
- The transmitter issues sound of dididi... when the drone battery is low. Please land the drone as soon as possible after low battery alarm.

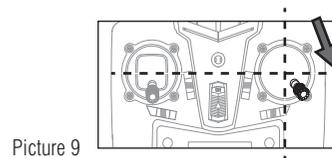
Calibration Instruction

Please follow the below orders to calibrate the drone if the drone hovers after taking off, and can not be adjusted by trim button and cause difficult operation.

- Turn off the drone switch and then turn off the transmitter switch.
- Turn on the transmitter switch, push the Throttle Stick to utmost control distance and then pull to the lowest position (See Picture 7 and 8), and the transmitter enters the state of code pairing waiting.



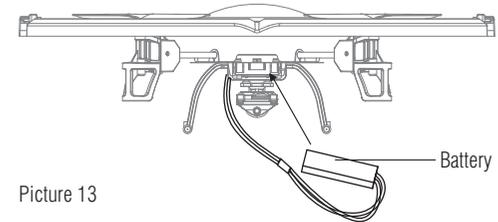
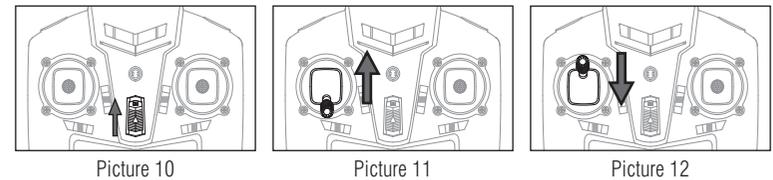
- Power on the drone and put it on the horizontal position. The drone tail face to the user and the drone head faces forward. You will hear " di, do, di" three seconds later, which indicates successful code pairing. The fuselage light keeps bright.
- Forbid to move Throttle Stick before successful calibration. Push the Forward/Backward/Left/Right Stick as below picture (See Picture 9). The drone fuselage light flashes, which indicates that the drone is calibrating. Then the fuselage light of the drone keeps bright, which indicates the drone is ready to fly.



Flying Operation:

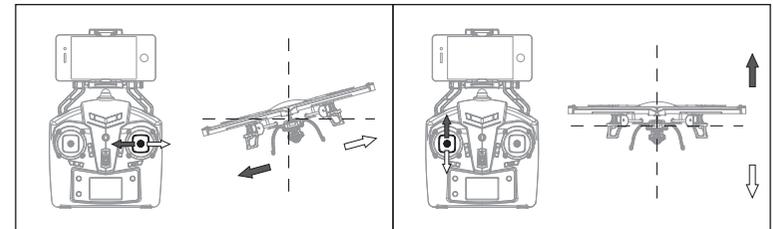
- Turn on the transmitter switch (Picture 10) and its indicator light flashes quickly. Push the Throttle Stick to utmost control distance and then to the low end (Picture 11/12). The indicator becomes flash slowly, which indicates the transmitter enters frequency pairing.
- Put the battery into the drone battery box, and then connect the battery with the drone. The front light flashes slowly. (Picture 13)
- Put the drone on the flat ground. The indicator light keeps bright, which indicates successful frequency pairing and the drone is ready to be controlled.

Important Notice: Please make sure the gyro of the receiving board is placed on the horizontal position after powering the drone, so that the drone can be controlled.

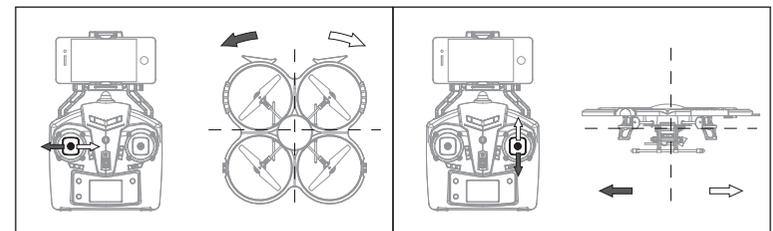


Picture for battery installation and power on the drone.

Flying Control

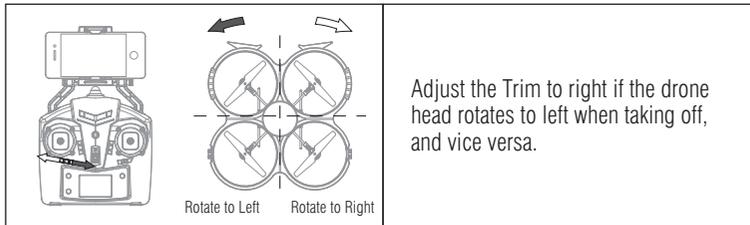


- Push the Forward/Backward/Left/Right Flying Stick to left or right and the drone flies to left or right synchronously.
- Push the Throttle Stick to up or down and the drone flies to up or down synchronously.

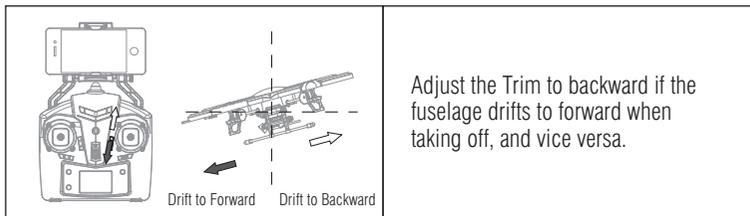


- Push the Throttle Stick to left or right and the drone rotates to left or right synchronously.
- Push the Forward/Backward/Left/Right Stick to up or down and the drone flies to forward or backward synchronously.

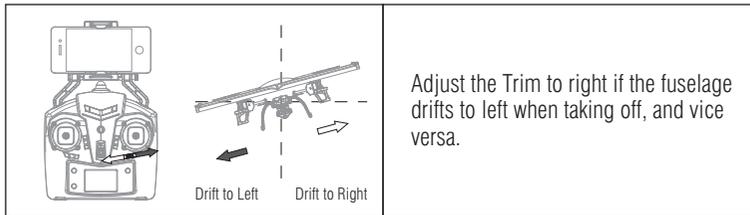
5. Adjust Left/Right Rudder Trim



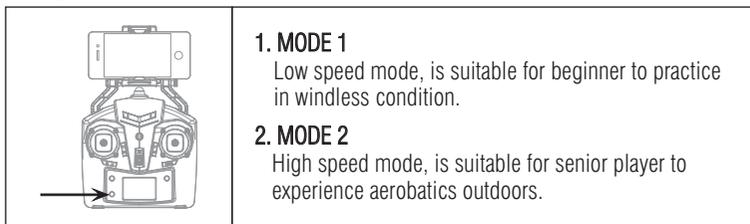
6. Adjust Forward/Backward Trim



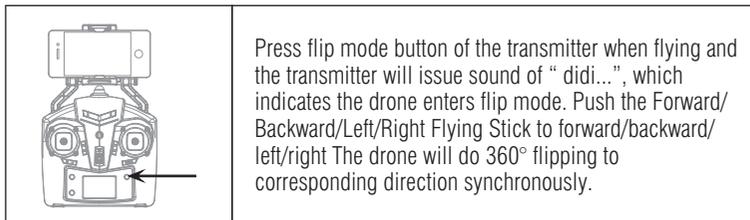
7. Adjust Left/Right Flying Trim



8. High/Low Speed Mode

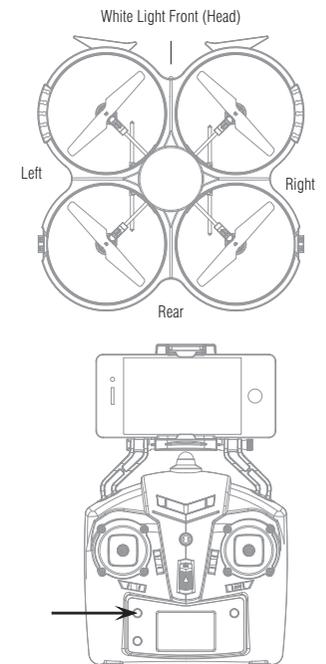


9. Flip Mode



10. Headless Mode

1. When the drone is flying or stay on the ground, the drone head faces to front. Press Headless Mode button and the drone body light flashes quickly, which indicates the drone enters headless mode.
2. Press the Headless Mode button again and the drone body light keeps bright, which indicates the drone exits headless mode. The drone must in front of the user when enter headless mode.
3. The headless mode is designed for beginner. It also suitable for those situation that the drone in sunshine or the drone over a long distance and can not recognize the drone front and rear.



- Notice:**
1. The drone head must face forward before entering headless mode.
 2. The flying rudder may drift for drone crash under headless mode. At this time you can exit from headless mode and re-enter headless mode again, and the rudder will return to normal state.

Operation Instruction for Mobile Phone WiFi

Download and install the App: udirc-FPV

The App is suitable for mobile phone with iOS or Android system, please download from the mobile phone software store:

1. For mobile phone with iOS system, please search udirc-FPV in APP Store.
2. For mobile phone with Android system, please search udirc-FPV in Google Play.
3. Scan the QR code below or the QR code in the color box to download the App: udirc-FPV, like Picture 14, Picture 15 and Picture 16 as below:



Picture 14



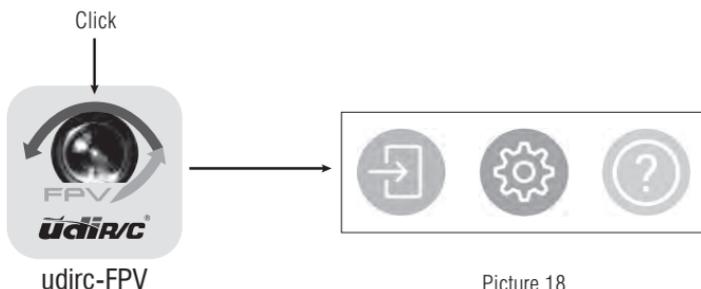
Picture 15



Picture 16

Frequency Pairing between Mobile Phone and Drone WiFi

1. Refer to the "Flying Operation" as before.
2. Enter "set up" of the mobile phone, turn on WiFi (WLAN) and choose udirc-FPV-..., return to desktop after successful connection.
3. Click the icon of udirc-FPV as Picture 17 and enter the App interface as Picture 18.

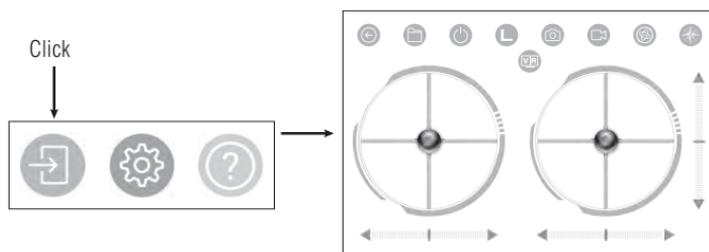


udirc-FPV

Picture 18

Picture 17

4. Click icon  and enter remote control interface as Picture 19.

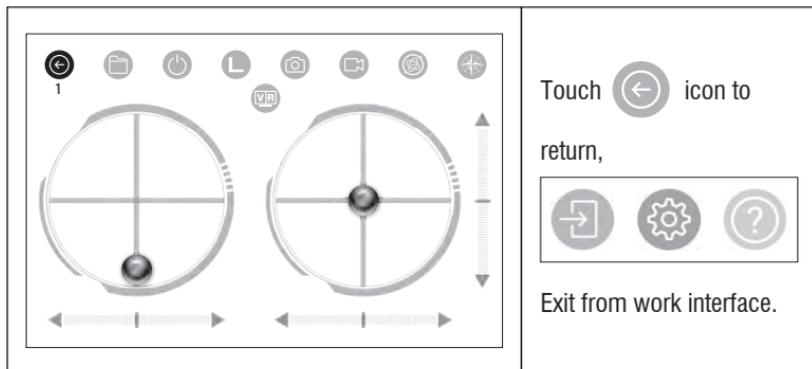


Picture 19

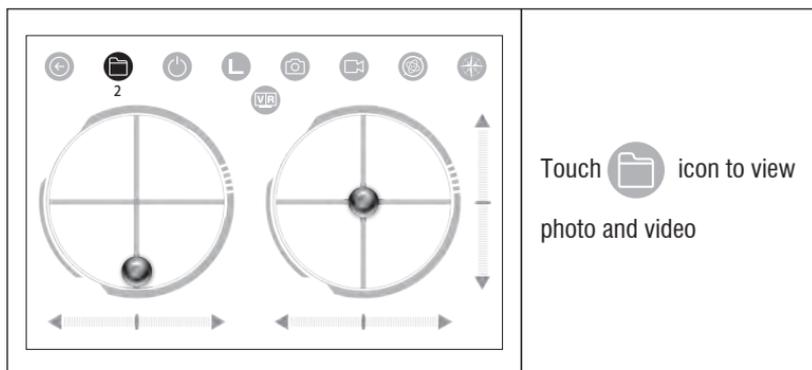
Introduction for Mobile Phone Control

Tip: Following “Flying Operation” before entering mobile phone control function.

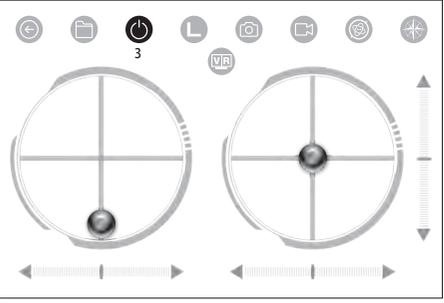
1. Back to main menu



2. View photo and video

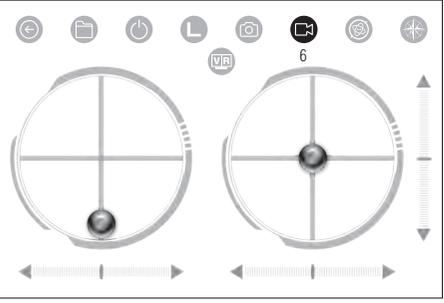


3. To view the screen without controls



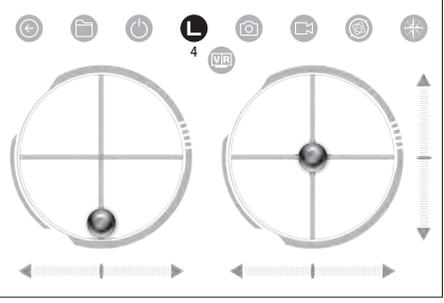
Touch  icon and  to view the screen without controls.

6. Recording Video



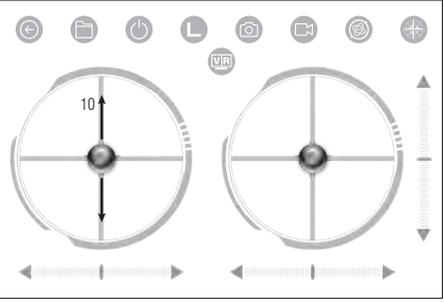
Touch  icon to record video, and then touch  icon again to finish video recording.

4. High/Low speed mode

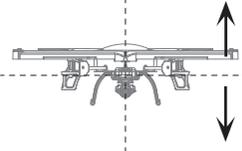


Touch  icon (Low Speed), turn to  icon (High Speed).

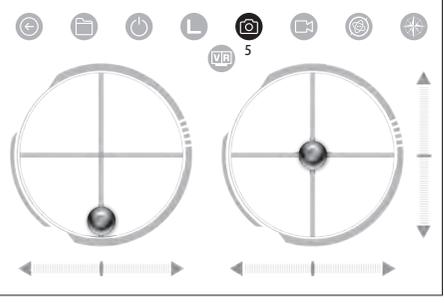
7. Up and down throttle control



Press the ball and push it up and the drone will fly up; pull down the ball and the drone will fly down.

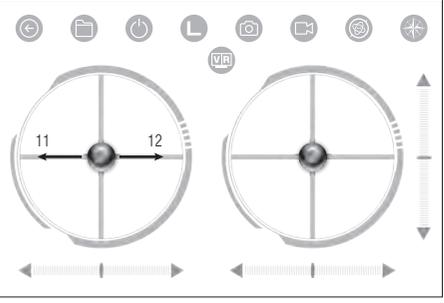


5. Taking photo

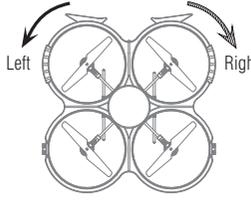


Touch  icon once to take photo.

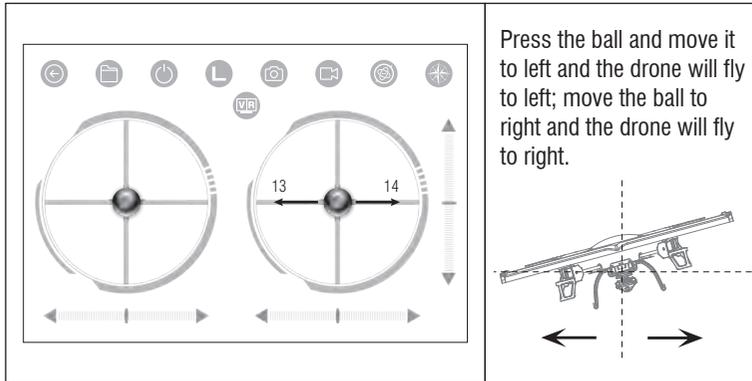
8. Turn left/right rotation control



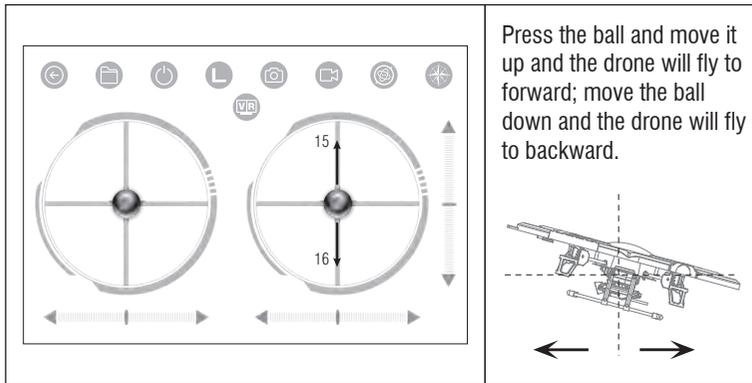
Press the ball and move it to left and the drone will rotate to left; move the ball to right and the drone will rotate to right.



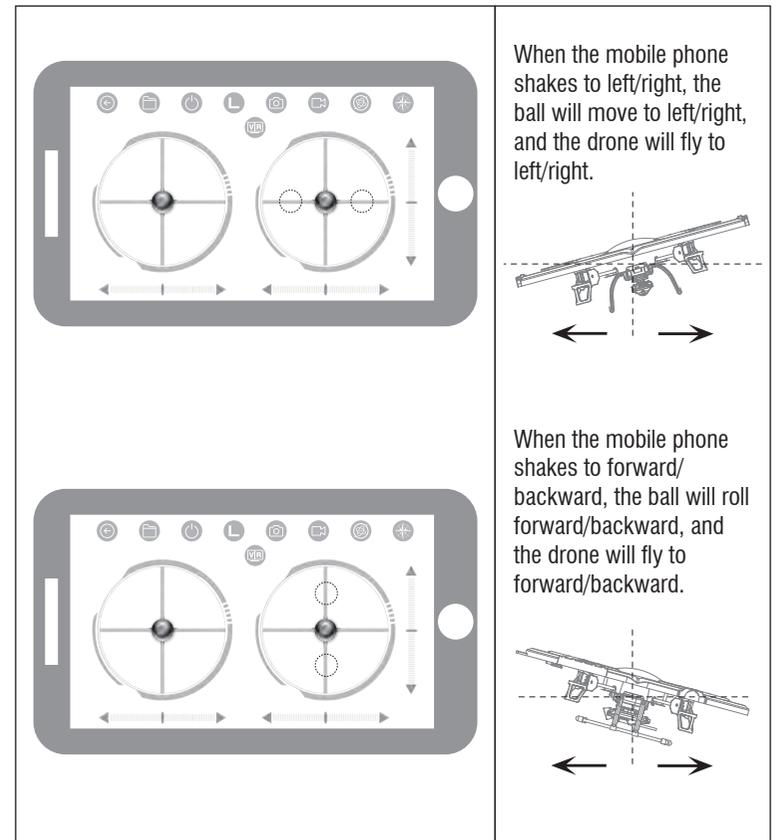
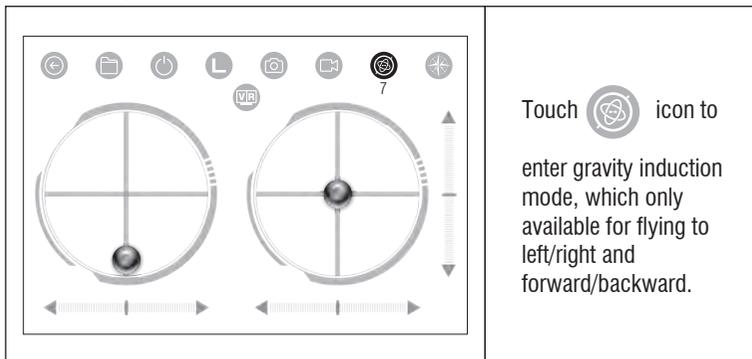
9. Right/left flying control



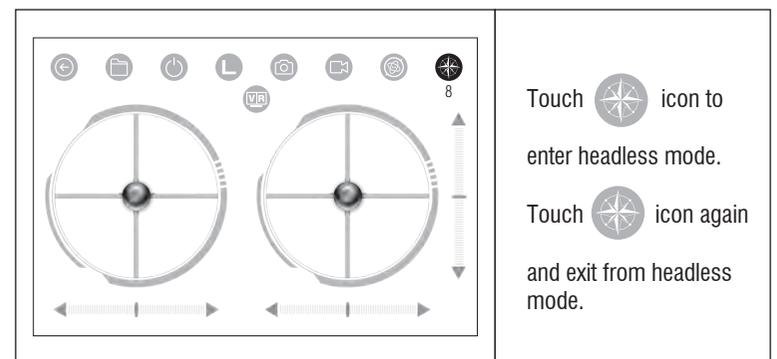
10. Forward/backward control



11. Gravity induction mode



12. Headless mode



13. ★ VR (virtual reality) Mode

	<p>Touch the VR icon to enter the mobile phone split screen mode. Touch the VR icon again to exit from VR mode.</p>
<p>* This function is only available when using a VR Headset (excluded).</p>	

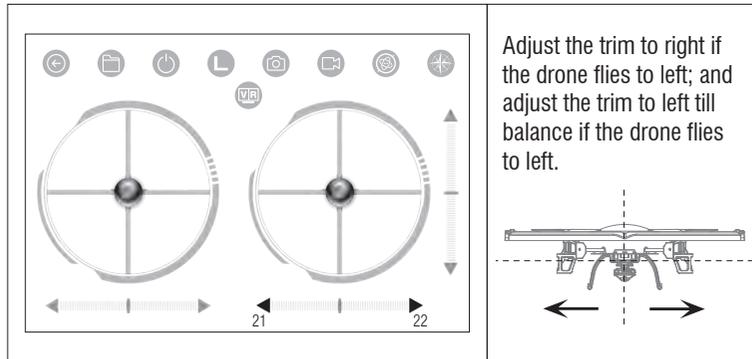
14. Forward/backward flying trim

	<p>Adjust the trim to down if the drone tilts to forward; and adjust the trim to up till balance if the drone tilts to backward.</p>
--	--

15. Left/right rotation trim

	<p>Ajust the trim to right if the drone rotates to left; and adjust the trim to right till balance if the drone rotates to right.</p>
--	---

16. Left/right flying trim

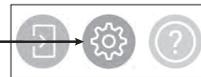


Notice:

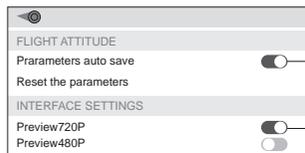
1. If you can not search the WiFi signal to connect, turn off WiFi and turn on again to search and connect.
2. The available WiFi control radius is 40m, please control the drone within this range.
3. Please pull the throttle stick to lowest position when you want to change the control method from transmitter to mobile phone or from mobile phone to transmitter, or the drone can not be controlled alternately.

Setting

In the interface, click the gear icon (Picture 20) and you'll see Picture 21.



Picture 20



Picture 21

Trim Settings:
Turn on to store the trim setting data;
Turn off and the trim setting data will not be stored.

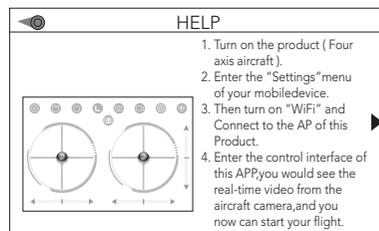
Video Quality:
Turn on for 480P or 720P mobile phone preview.

Help

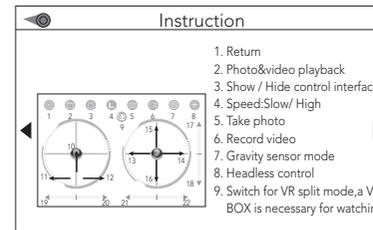
In the interface, click the icon (as Picture 22) and enter help interface (as Picture 23, 24, 25).



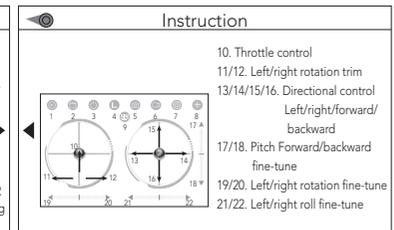
Picture 22



Picture 23



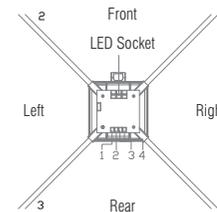
Picture 24



Picture 25

Additional Instruction of Receiving Board

The drone works well only when the motor wires connected with the receiving board as below.



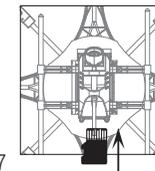
Picture 26

Connect No. 1 socket of receiving board with right-front motor wire.
Connect No. 2 socket of receiving board with left-front motor wire.
Connect No. 3 socket of receiving board with left-rear motor wire
Connect No. 4 socket of receiving board with right-rear motor wire.

Operation for Video Recording and Photo Taking

1. Press TF card and insert to the aerial camera as Picture 27. Please note that the metal side of the card must up.
2. When taking photo, the mobile phone and TF card will store the picture. When recording video, the video will only be stored in TF card. Meanwhile, you can preview or download the video in mobile phone only when the TF card in the camera box and the drone is connect with the transmitter.

Notice: Press Video Button to save a video when finish recording, or the video cannot be saved.



Picture 27

3. Power off the drone first when finish aerial photography. Take out TF card and insert the card to a card reader. Connect the card reader with computer. After a while, view the aerial photography data from "my computer" - "mobile disk".

Tip: Please play the video or photo after copying all aerial photography data to computer and make sure the play software can support its format.

Basic parameter for aerial camera: Video DPI 1280*720P/30FPS;
Image Size 1280*720P.

Spare Parts

For convenience, the spare parts are listed for you to choose, which can be purchased from the local distributor.



U818A WIFI-01
Main Frame

U818A WIFI-02
Blade

U818A WIFI-03
Drone Cover

U818A WIFI-04
Base Leg



U818A WIFI-05
Carbon Tube
and Tooth Gear

U818A WIFI-06
Standard Motor
(Red and Blue Wire)

U818A WIFI-07
Reverse Motor
(Black and
White Wire)

U818A WIFI-08
Standard Motor
Parts (Blue Light)

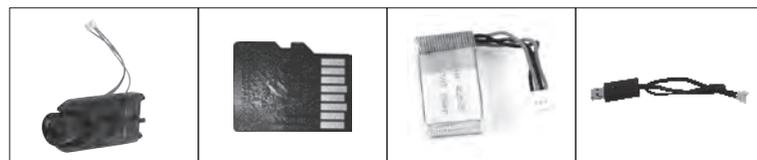


U818A WIFI-09
Standard Motor
Parts (Red Light)

U818A WIFI-10
Reverse Motor
Parts (Blue Light)

U818A WIFI-11
Reverse Motor
Parts (Red Light)

U818A WIFI-12
Receiving Board



U818A WIFI-13
Camera Box

U818A WIFI-14
TF Card

U818A WIFI-15
Battery

U818A WIFI-16
USB Wire



U818A WIFI-17
Card Reader

U818A WIFI-18
Transmitter

Troubleshooting Guide

No.	Problem	Problem Cause	Solution
1	The transmitter indicator light is off	1. The transmitter battery is too low.	1. Replace battery.
		2. The battery positive pole and negative pole are in reverse order.	2. Install the battery in accordance with the user manual.
		3. Poor Contact.	3. Clean the dirt between the battery and the battery alic.
2	Fail to pair the drone with transmitter	1. Indicator light is off.	1. The same as above 1.2.3.
		2. There is interfering signal nearby.	2. Restart the drone and power on the transmitter.
		3. Misoperation.	3. Operate the drone step by step in accordance with the user manual.
		4. The electronic component is damaged for frequent crash.	4. To buy spare parts from local seller and replace damaged parts.
3	The drone is under-powered or can not fly.	1. The blade deformed seriously.	1. Replace blade.
		2. The drone battery is too low.	2. Recharge the drone battery.
		3. Incorrect installation of blade.	3. Install the blade in accordance with the user manual instruction.
4	The drone can not hover and tilts to one side	1. The blade deformed seriously.	1. Replace blade.
		2. The motor holder deformed and out of verticality.	2. Replace the motor holder.
		3. The gyro did not resetting after violent crash.	3. Put the drone on the flat ground for about 10s or restart the the drone to calibrate again.
		4. The motor is damaged.	4. Replace motor.
5	The drone indicator light is off	1. The drone battery is too low.	1. Recharge the drone battery.
		2. The battery is expired or overdischarge protection.	2. Buy a new battery from local seller to replace or recharge the battery.
		3. Poor contact.	3. Disconnect the battery and then connect it with the plug again.
6	Can not see the picture	1. Did not connect the wire of camera box or poor contact.	1. Check the wire and connect well.
		2. There is interfering signal nearby.	2. Cut off the wire and re-connect.
		3. Damaged camera.	3. Buy a new camera box from local seller to replace.
7	Hard to control by cellphone	1. Not experienced enough.	1. Practice and read the cellphone controlling instruction carefully.

FCC Information

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 residential protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

FCC WARNING:

The equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. Modifications not authorized by the manufacturer may void user's authority to operate this device.

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

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



MADE IN CHINA