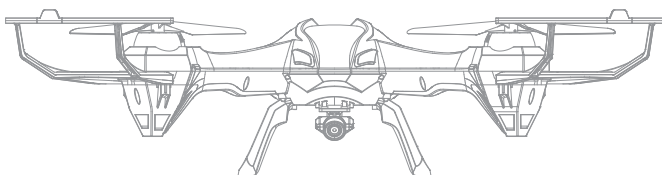


PREDATOR FPV

Take aerial videos and photos with 720P HD Camera



U842 Wifi



catalog

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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.

Notice

1. Important Statement:

- (1) This product is not an ordinary 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 experienced RC drone user aged 14 years or above.
- (3) The flying field must be legally approved by your 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 question about use, operation, repair etc., please contact your 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. Do not fly a RC drone in rainy, storm, thunder and lighting 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

Rotating Parts can cause serious injury and damage. Keep face and body away from rotating motors.

(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.

(6) Please do not touch the hot motor to avoid being burnt.

3. Check List Before Flight

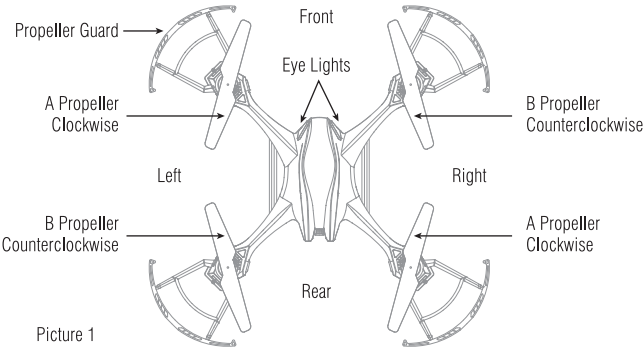
- (1) Flying field must be spacious enough and we suggest at least 8M (length)*8M (width)*5M (height).
- (2) Make sure the drone battery and transmitter battery are fully charged.
- (3) Make sure the Left Stick of the transmitter in the lowest position.
- (4) Please strictly obey the order of turn on 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.
- (7) The drone should be controlled within max control distance. Do not fly the drone near tall building, high voltage cable or other place with signal interference. Or may cause signal interruption and the drone will be out of control, which may result in accident.

Specification

Drone Size	480x480x120mm	Charging Time for Drone Battery	140~160mins
Drone Weight	355g	Max Flying Distance/Radius	100 m
Propeller Diameter	190mm	Max Image Transmission Distance/Radius	35 m
Flying Time	6~7mins		
Drone Battery	3.7Vx2 1000mAh	Camera Resolution	1280x720P

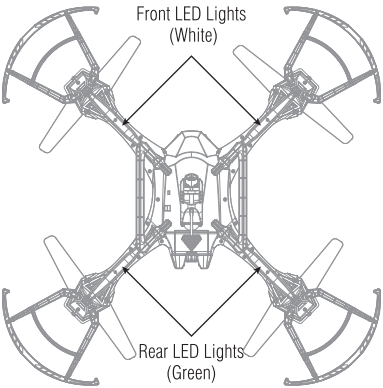
Name of Parts

1. Drone



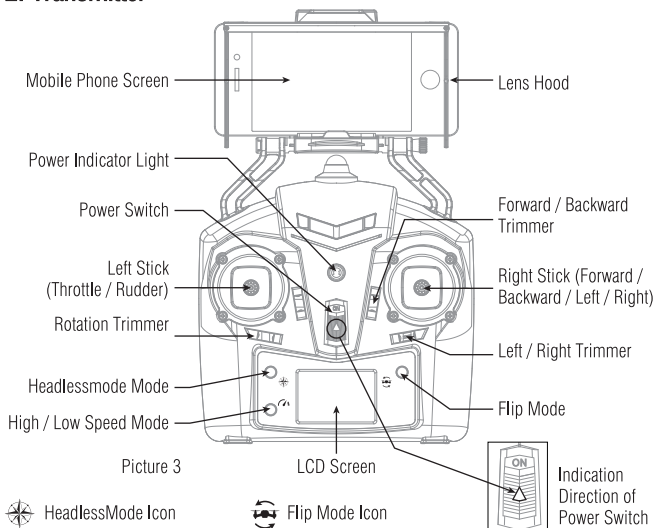
Picture 1

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



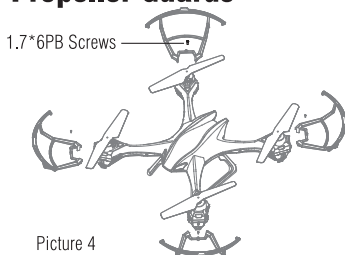
Picture 2

2. Transmitter



High / Low Speed Mode Icon

Installation of Propeller Guards

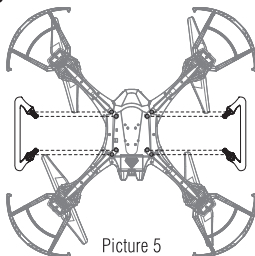


1. Install the propeller guard to the drone and make sure the propeller guard's pillar can fully fill the gap. Then lock the propeller guard by attached 1.7*6PB screw (short screw).
2. Remove the screw from the propeller guard and pull out the propeller guard with moderate force.
3. To improve the drone power and flight time, fly the drone without the propeller guard when you can operate the drone skillfully.

Landing Gear Installation Diagram

To install the Landing Gear, insert the Landing Gear's pillars into the drone body holes with moderate force as the diagram shown.

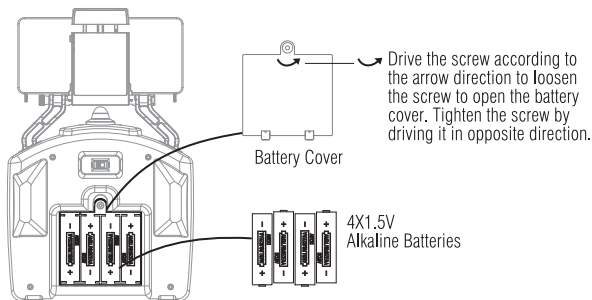
Note: Please ensure the Landing Gear can stand firm on the ground. Or the flight stability would be effected.



Picture 5

Transmitter Installation:

Battery installation: open the battery cover on the back side of the transmitter and put 4 alkaline batteries (not included) into the box in accordance with electrode instructions.



Picture 6

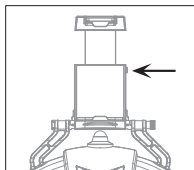
Notice:

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.
4. Do not charge the non rechargeable battery.

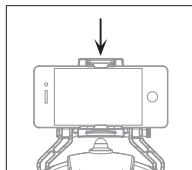
Attaching your Mobile Phone to Transmitter

1. Press the self-locking switch on the top right side of the mobile holder and push the holder to a fully open position as Picture 7 shown.
2. Place the mobile phone facing frontward position, pull the mobile phone holder down and press tightly as possible to secure the mobile phone and transmitter (please note that do not touch the mobile phone button) as Picture 8.

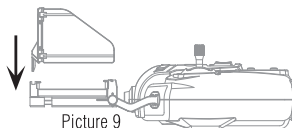
Picture 7



Picture 8



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 9.



Picture 9

Charging Instruction

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 140~160 minutes later, the light turns to green and keeps bright when fully charged.
 3. Li-Po battery is included in spare parts and please pay attention on the safe notice.
- * Do not put the battery on high temperature place, such as fire or heating device to avoid damage or explode.
 - * Do not use the battery to crash or hit hard surface.
 - * Do not put the battery in water and keep it in dry place.
 - * Do not open the battery.
 - * Do not leave the battery without supervision when charging.
 - * Make sure that there is no short circuit of the power wire.
 - * Please use the recommended charger only.
 - * Check the charger's wire, plug, surface regularly. Do not use broken charger.

Charging Methods



Phone
Charger



USB



Power
Bank

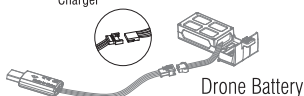


Computer



Car
Charger

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



Drone Battery



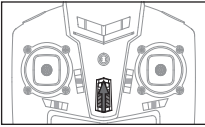
Li-Po Battery Disposal & Recycling

Wasted Lithium-Polymer 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.

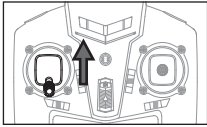


Pre-flying Operation:

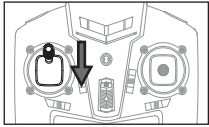
1. Turn on the transmitter switch (Picture 10) and its indicator light flashes quickly. Push the Left Stick to utmost control distance and then to the low end (Picture 11/12). The indicator becomes flash slowly, which indicates the transmitter enters frequency pairing.



Picture 10

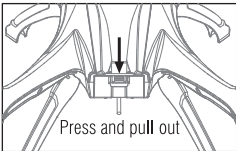


Picture 11



Picture 12

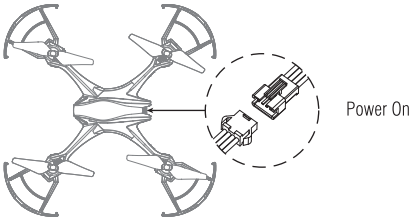
2. Press the battery box buckle at the tail of the drone and then pull it out (Picture 13).



Picture 13

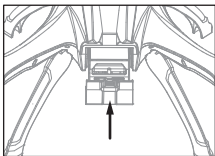
3. Connect the battery plug with the drone plug (Picture 14).

Note: The drone or the battery may damaged for wrong connection of the plug.



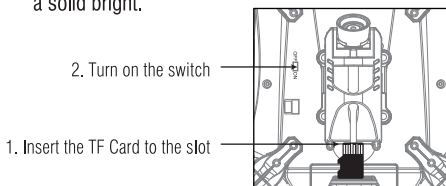
Picture 14

4. Push the battery to the drone body and make sure the connective plugs are placed well.



Picture 15

5. Insert the TF card to the card slot at the rear part of the camera, and then turn on the power switch. The LED lights start to flash. Put the drone on the horizontal position to calibrate the gyro. The transmitter beep constantly about three seconds later, which indicates successful code pairing and the LED lights get a solid bright.

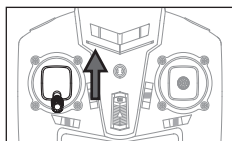


Picture 16

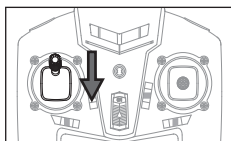
Note: When insert the card to the slot, ensure the metal side of the TF card is shown as Picture 16.

Additional Instruction before Flying:

1. The white light is front (head).
2. Power on the drone and check the rotating propellers. The left front and right rear propellers rotating clockwise while the right front and left rear propellers rotating counterclockwise.
3. Adjust relative transmitter Trimmer button to adjust the rudder if the drone tilts to one side when flying.
4. The transmitter will beep constantly when the drone battery is low. Please land the drone as soon as possible after low battery alarm.
5. Calibration Instruction
Please follow below steps to calibrate the drone if the drone becomes imbalance after crashing during the flight, or can not be adjusted by trimmer button and cause difficult operation.
 - 1) Turn off the drone switch and then turn off the transmitter switch.
 - 2) Turn on the transmitter switch, push the Left Stick all the way up to the utmost position and then pull it back to the lowest position (See Picture 17 and 18), and the transmitter enters the state of code pairing waiting.

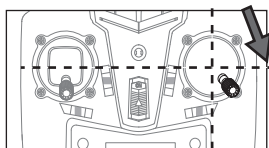


Picture 17



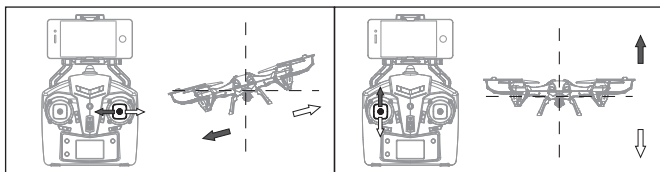
Picture18

- 3) Turn on the drone switch and put the drone on a flat surface in 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 lights get a solid bright.
- 4) Do not move the Left Stick before successful calibration. Push the Right Stick as Picture 19 and then release. The drone body lights flash, which indicates that the drone is calibrating. When the drone body lights remain solid, which indicates successful calibration.

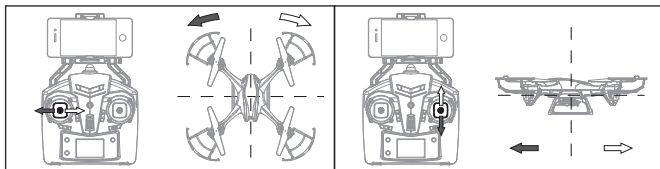


Picture 19

Flying Control

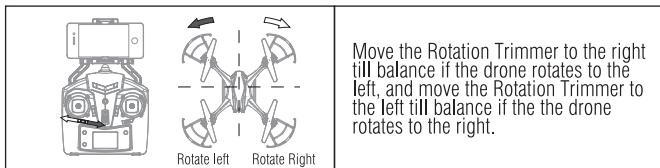


1. Move the Right Stick to the left to fly the drone to the left, and move the Right Stick to the right to fly the drone to the right.
2. Push the Left Stick up to fly the drone up, and pull the Left Stick down to fly the drone down.



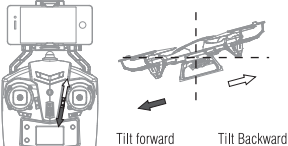
3. Move the Left Stick to the left to rotate the drone to the left, and move the Left Stick to the right to rotate the drone to the right.
4. Push the Right Stick up to fly the drone forward, and pull the Right Stick down to fly the drone backward.

5. If the drone rotates to the left or right

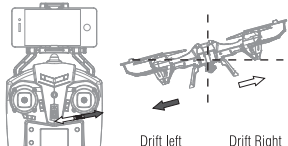


Move the Rotation Trimmer to the right till balance if the drone rotates to the left, and move the Rotation Trimmer to the left till balance if the the drone rotates to the right.

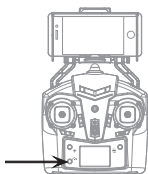
6. If the drone tilts forward or backward

 <p>Tilt forward Tilt Backward</p>	<p>Pull down the Forward / Backward Trimmer till balance if the drone drifts forward, and push up the Forward / Backward Trimmer if the drone drifts backward.</p>
--	--

7. If the drone tilts to the left or right

 <p>Drift left Drift Right</p>	<p>Move the Left / Right Trimmer to the right till balance if the drone drifts to the left, and move the Left / Right Trimmer to the left till balance if the drone drifts to the right.</p>
--	--

High / Low Speed Mode



Picture 20

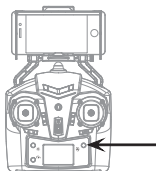
1. MODE 1

Low speed mode is suitable for beginner to practice in windless condition.

2. MODE 2

High speed mode is suitable for senior player to experience aerobatics outdoors.

Flip Mode



Picture 21

Press flip mode button of the transmitter when flying and the transmitter will beep constantly, which indicates the drone enters flip mode. Push the Right Stick to forward / backward / left / right The drone will do 360° flipping to corresponding direction synchronously.

Low Battery Alarm

When the drone in low battery, the transmitter will beep constantly to remind the user to land the drone as soon as possible. The flip function will turn off automatically when the drone in low battery.

Headless Mode

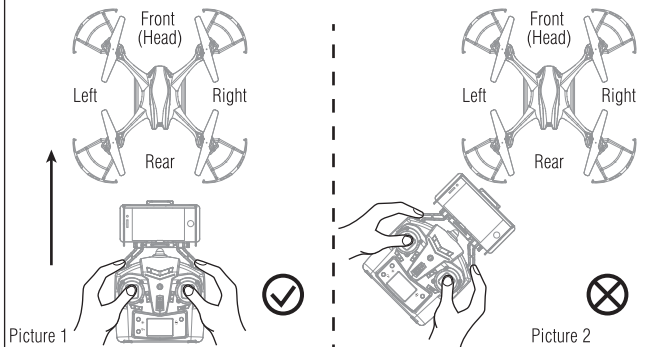
* Drones generally have a front and rear indicated by LED lights or colored propellers. By default, the users are required to tell the front and the rear of the drone when flying. Under headless mode, the users can operate the drone without worrying about the orientation (left is left and right is right all the time, regardless of where your drone is pointing at).

Headless Mode is designed for beginners and users who fly the drone in daylight or at a far distance.

When the drone in headless mode, push the Right Stick to forward / backward / left / right, and the drone will fly to forward / backward / left / right accordingly.

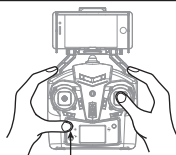
Prerequisite: Position the drone in such a way that its front is your front (see Picture 1).

Tip: Do not change the orientation of the transmitter (see Picture 2) after entering headless mode.



To turn on Headless Mode, press Headless Mode button and the drone LED lights flash, which indicates the drone enters headless mode.

To turn off Headless Mode, press Headless Mode button again and the drone LED lights turn solid, which indicates the heading hold mode is off.



Headless Mode Button

Picture 22

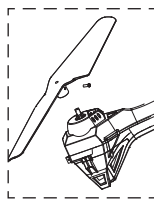
Installation and Replacement for Motor and Propeller

1. Propeller Replacement

Please replace the damaged propeller with new propeller as below steps.

Remove the propeller screw and replace it with new propeller, and then fix the screw (Picture 23).

Note: Ensure that use a new A Propeller to replace the damaged A Propeller, and use a new B Propeller to replace the damaged B Propeller.

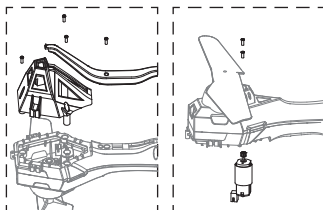


Picture 23

2. Motor Replacement

Replace the damaged or performance degradation motor as below steps.

1. Remove the LED shade and four screws of the motor holder (Picture 24).
2. Remove two motor screws and replace the damaged motor with a new one (Picture 25).



Picture 24

Picture 25

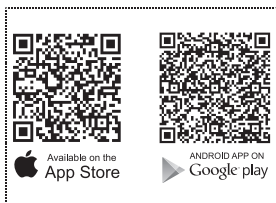
Note: Ensure that red motor plug paired with red motor port, white motor plug paired with white motor port. A Propeller for clockwise motor and B Propeller for counterclockwise motor.

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 26, Picture 27 and Picture 28 as below:



Picture 26



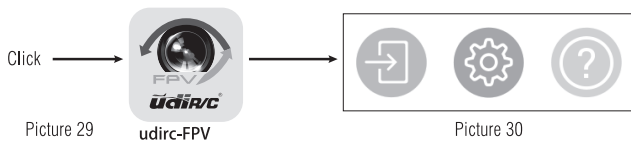
Picture 27



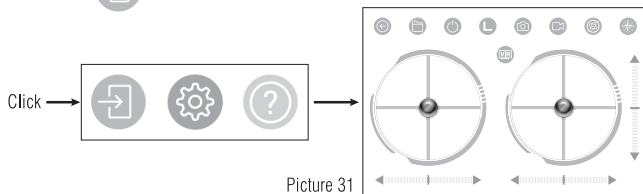
Picture 28

Frequency Pairing between Mobile Phone and Drone WiFi:

1. Refer to the “Pre-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 29 and enter the APP interface as Picture 30.



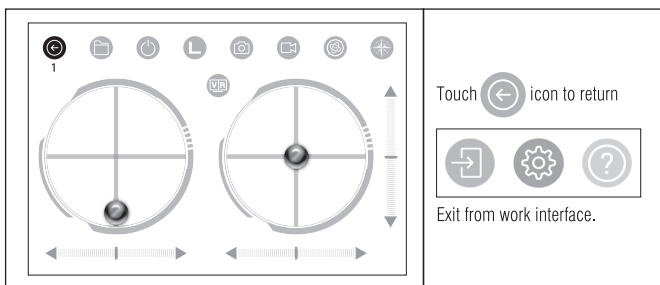
4. Click icon  and enter remote control interface as Picture 31.



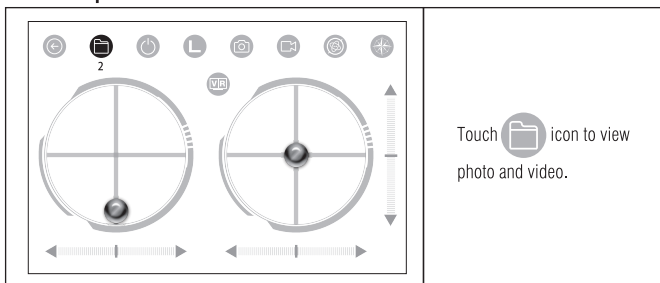
Introduction for Mobile Phone Control

Tip: Following “Pre-flying Operation” before entering mobile phone control function.

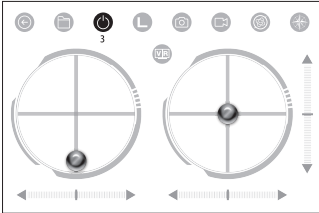
1. Back to main menu




2. To view photo and video




3. To view the screen without controls



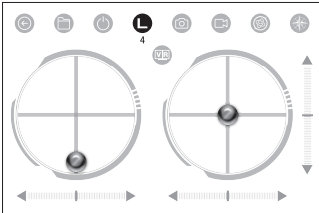
The screenshot shows a control interface with two circular displays and a top menu bar. The power icon in the menu bar is highlighted with a '3'.

Touch  icon to view





your screen without controls.

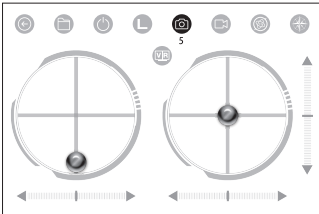
4. High / Low speed mode




The screenshot shows the control interface with the 'L' icon in the menu bar highlighted by a '4'.

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

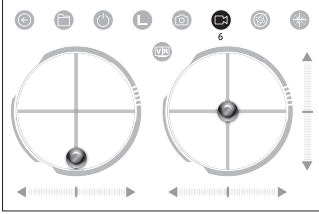
5. To take photo





The screenshot shows the control interface with the camera icon in the menu bar highlighted by a '5'.

Touch  icon once
to take a photo.

6. To record video



The screenshot shows the control interface with the video camera icon in the menu bar highlighted by a '6'.

Touch  icon to record
a video, and touch  icon
again to stop recording.

7. To fly up and down

	<p>Move the Left Ball up to fly the drone up and move the Left Ball down to fly the drone back down.</p>
--	--

8. To rotate left and right

	<p>Move the Left Ball to the left to rotate the drone to the left. Move the Left Ball to the right to rotate the drone to the right.</p>
--	--


9. To fly right and left

	<p>Move the Right Ball to the left to fly the drone to the left and move the Right Ball to the right to fly the drone to the right.</p>
--	---

10. To fly forward and backward

Move the Right Ball up to fly the drone forward and move the Right Ball down to fly backwards.

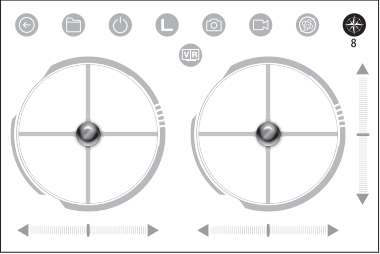
11. To turn on Gravity Induction Mode


Touch  icon to enter gravity induction mode, which is only available for flying left / right and forward / backward.


If the mobile phone shakes to the left / right, the Right Ball will move accordingly causing the drone to fly left / right.

If the mobile phone shakes to forward/backward, the Right Ball will roll forward / backward, causing the drone to fly forward / backward.

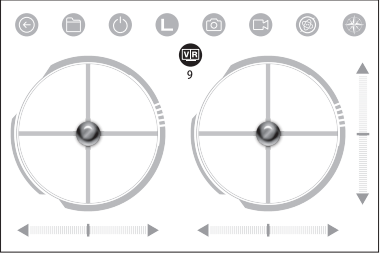
12. To turn on Headless Mode





Touch  icon to enter Headless mode.

Touch  icon again and exit from Headless mode.

13. ★ VR (virtual reality) Mode

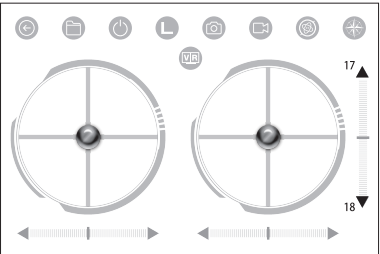


Touch  icon to enter the mobile phone split screen mode.

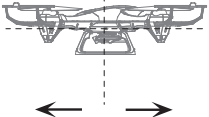
Touch  icon again to exit from VR mode.

* This function is only available when using a VR Headset (excluded).

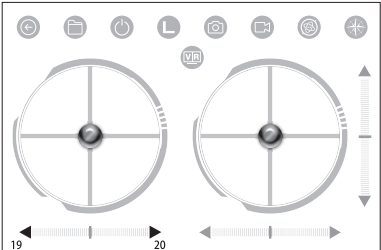
14. If the drone tilts forward or backward




Adjust the Forward / Backward Trimmer down if the drone tilts forward, and adjust the trimmer up to balance if the drone tilts backward.



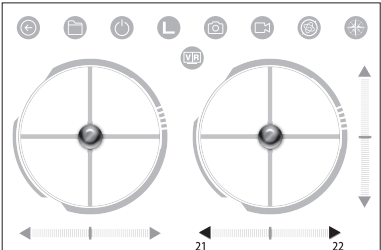
15. If the drone rotates to left or right



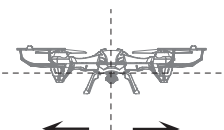
Adjust the Left / Right Rotation Trimmer to the right if the drone rotates left, and adjust the trimmer to the right to balance if the drone rotates right.



16. If the drone flies left or right



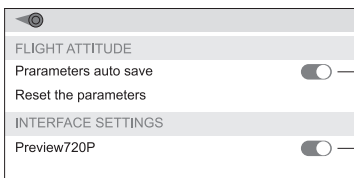
Adjust the Left / Right Flying Trimmer to the right if the drone flies left, and adjust the trimmer to the left to balance if the drone flies to right.



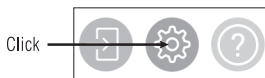
- Notice:**
1. If you can not search the WiFi signal to connect, turn off WiFi and turn on again to search and connect.
 2. The available WiFi control radius is 35m, please control the drone within this range.
 3. Pull the throttle stick to lowest position when you want to change the control method from transmitter to mobile phone (or from mobile phone to transmitter), or the drone can not be controlled alternately.

Setting

In the interface, click the function setting as Picture 32 and then you'll see Picture 33.



Picture 33



Picture 32

Turn on to save the trimming setting data. Turn off and the trim setting data will not be saved.

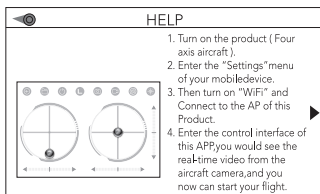
Turn on for 720P mobile phone preview. Turn off for 480P mobile phone preview.

Help

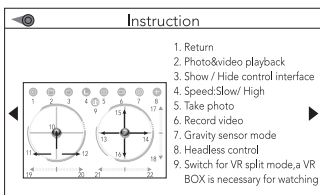
In the interface, click the icon (as Picture 34) and enter help interface (as Picture 35, 36, 37).



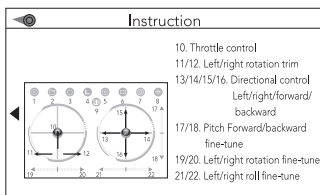
Picture 34



Picture 35



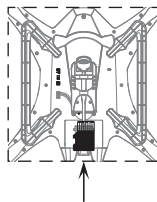
Picture 36



Picture 37

To record video and take photo

1. Press TF card and insert to the aerial camera as Picture 38. Please ensure the metal side of the card is shown as Picture 38.
2. When taking photo, the mobile phone and TF card will save 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.



Picture 38

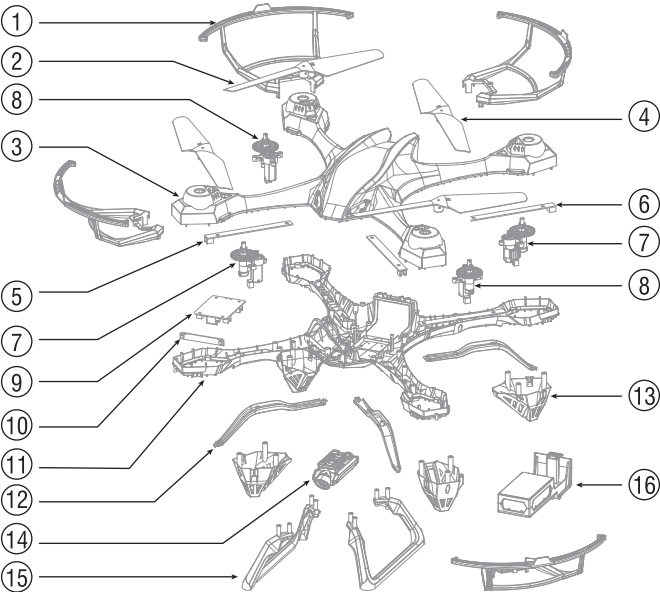
Notice: Press Video Button to save a video when finish recording, or the video cannot be saved.

3. Turn off the drone switch 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 coping 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.**

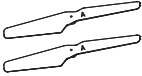
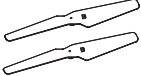


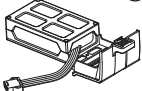
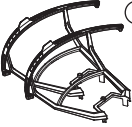
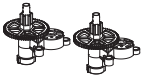
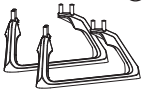




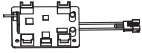
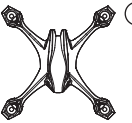
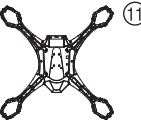
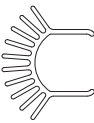


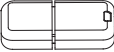

Exploded View



No.	Name	No.	Name
1	Propeller Guard	9	Receiving Board
2	A Propeller(Clockwise)	10	Eye Lights
3	Upper Cover	11	Lower Cover
4	B Propeller (Counterclockwise)	12	Lampshade
5	Front LED Lights (White)	13	Motor Holder
6	Rear LED Lights (Green)	14	Camera
7	Counterclockwise Motor Parts (Red Plug)	15	Landing Gear
8	Clockwise Motor Parts (White Plug)	16	Drone Battery

Spare Parts

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

 U842Wifi-01 A Propeller	 U842Wifi-02 B Propeller	 U842Wifi-03 Counterclockwise Motor (Red Plug)	 U842Wifi-04 Clockwise Motor Parts (White Plug)
 U842Wifi-05 Drone Battery	 U842Wifi-06 Propeller Guard	 U842Wifi-07 Motor Holder Parts	 U842Wifi-08 Landing Gear
 U842Wifi-09 Motor Holder	 U842Wifi-10 TF Card	 U842Wifi-11 USB Charger Wire	 U842Wifi-12 Camera
 U842Wifi-13 Receiving Board	 U842Wifi-14 Upper Cover	 U842Wifi-15 Lower Cover	 U842Wifi-16 Aluminum Cooling Sleeve for Motor
 U842Wifi-17 Lampshade	 U842Wifi-18 Lens Hood	 U842Wifi-19 Card Reader	 U842Wifi-20 Transmitter

Troubleshooting Guide

No.	Problem	Problem Cause	Solution
1	The transmitter indicator light is off	1. Low battery.	1. Replace the transmitter 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 slice.
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 propeller deformed seriously.	1. Replace the propeller.
		2. Low battery.	2. Recharge the drone battery.
		3. Incorrect installation of propeller.	3. Install the propeller in accordance with the user manual.
4	The drone could not hover and tilts to one side.	1. The propeller deformed seriously.	1. Replace propeller.
		2. The motor holder deformed .	2. Replace the motor holder.
		3. The gyro did not reset 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. Low battery.	1. Recharge the drone battery.
		2. The battery is expired or over discharge protection.	2. Buy a new battery from local seller to replace the battery.
		3. Poor contact.	3. Disconnect the battery and then connect it with the plug again.
6	Could 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.

