Ages 14+





Aerial Photography / Real-time FPV / WiFi Control Heading Hold Mode / Low Battery Alarm Out of Range Alarm / One Button Take Off/Landing High/Low Speed Mode / Custom Route Mode

### **Altitude Hold Mode**



# U36W User Manual

# Catalog

Important Statement
Safety Precautions
Safe Notice for Drone Battery 6
<b>Charging Instruction for Drone Battery</b>
Check List Before Flight 7
Instruction for Drone and Transmitter
Pre-flight Operation Instruction
Functions Introduction19
Spare Parts Installation Instruction24
To know your APP25
Spare Parts
Troubleshooting Guide

# **Important Statement**

Thank you for buying UDIRC's product. People who under 14 years old must not use the product. Please read this brochure carefully before using the product. You are regarded as accepting all content in this user manual when using this drone.

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. The users promise to be responsible for their behavior when using this product and relevant APP. The users promise to use the drone and relevant APP for legal purpose, and agree to obey above rules and local laws and regulations.

We undertake no liability for those accidents caused by environment, illegal behavior, improper operation and refitting of the drone after sale of the product.

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 the local distributor.

\* Keep the packing and user manual so as to refer to the important information whenever.

# **Safety Precautions**

This drone is suitable for experienced RC drone user aged 14 years or above. This product contains small parts, please put it out of child's reach.

## (1) Flying Area

The flying field must be legally approved by your local government. Do not fly the drone near in the airport. Keep far away from the airport more than 5km when flying a RC drone. Flying field must spacious enough and we suggest at least 8M (length)\*8M (width)\*5M (height).

#### (2) Use correctly

For safety elements, please only use UDIRC's spare parts to replace the damaged parts. 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.

#### (3) 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.

#### (4) 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.

#### (5) 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.

#### (6) Keep away from rotating parts

Rotating parts like propellers or motors may cause serious injury and damage. Keep face and body away from rotating parts.

#### (7) 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.

(8) 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 out of control, which may result of accident.

(9) Do not touch the hot motor to avoid being burnt.

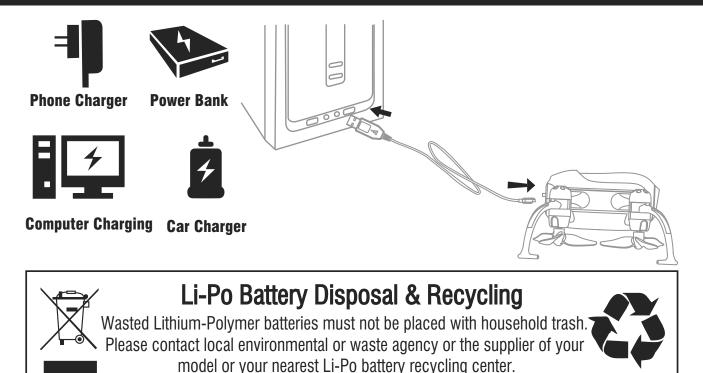
(10) Please use the recommended charger only. Power off the drone before cleaning the RC drone. Check the USB cable, charging plug etc. regularly to ensure they can work well. If there is any damage, stop using it immediately till it's fixed well.

# Safe Notice for Drone Battery

- \* 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 any broken charger.
- \* If do not fly the drone more than one week, maintain the drone battery with about 50% power to keep its performance and working life.

# **Charging Instruction for Drone Battery**

- 1. Connect the drone battery with USB cable first and then choose one of the method as below picture shown to connect with USB plug.
- 2. The red USB indicator light keeps bright when charging and the light turns green when fully charged( The switch must be powered off when charging).
- \* For faster charging, it is recommended to use an adapter with 5V 2A output current (not included) to charge the battery

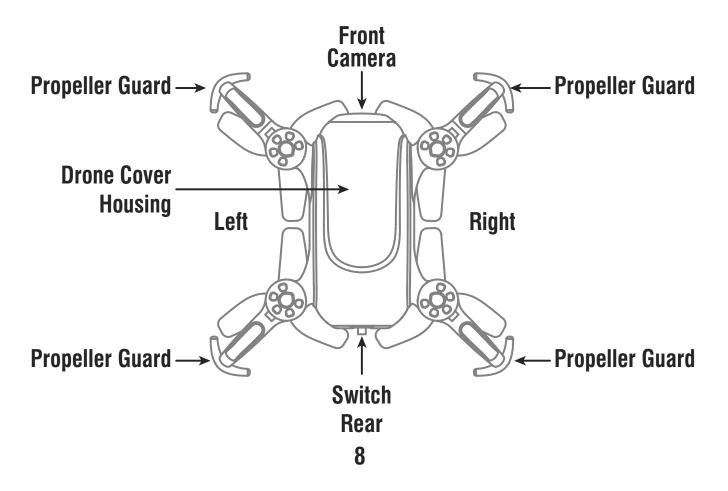


## **Check List Before Flight**

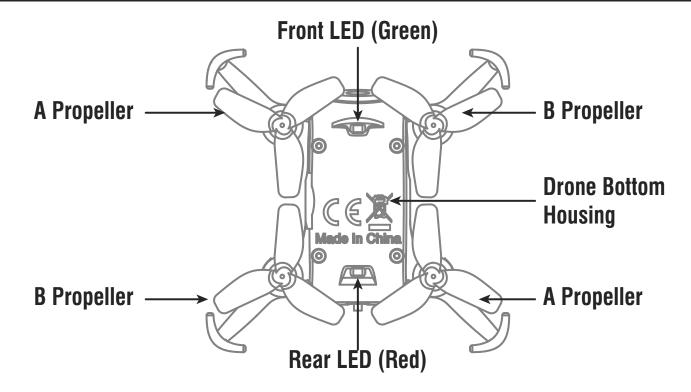
- 1. Make sure the drone battery and transmitter battery are fully charged.
- 2. Make sure the Left Stick of the transmitter in the middle position.
- 3. Please strictly obey the order of turn on and turn off before operation. Turn on the transmitter power first and then turn on the drone power before 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.
- 4. Make sure the connection is solid between battery and motor etc. The ongoing vibration may cause bad connection of power terminal and make the drone out of control.

5. 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.

# Instruction for Drone and Transmitter Drone



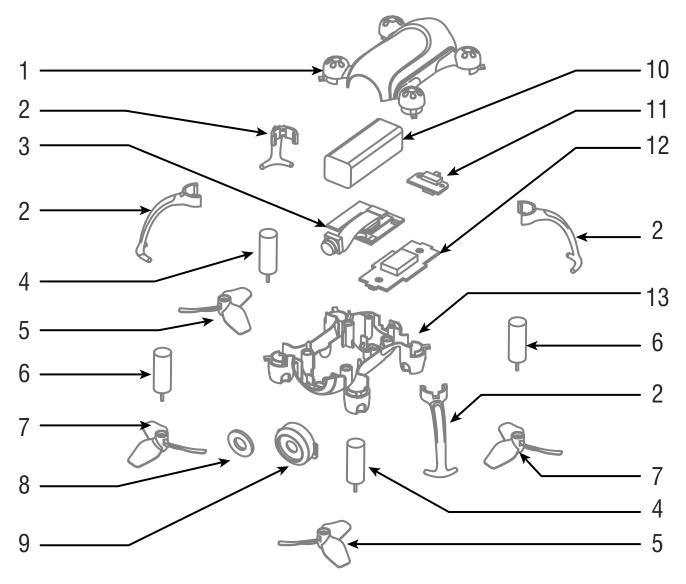
#### www.udirc.com



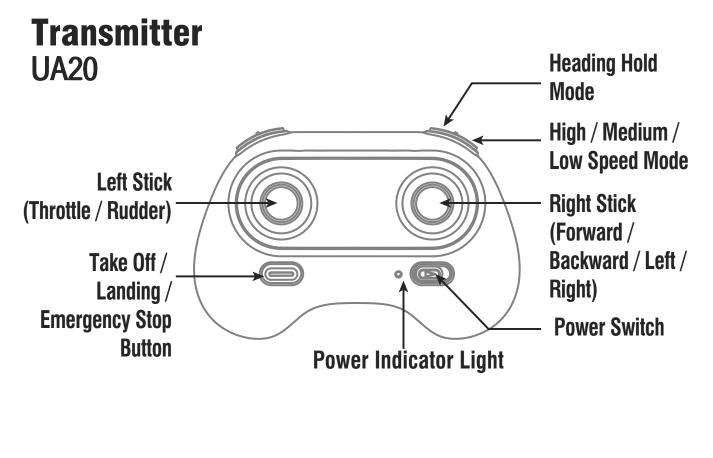
## **Specification**

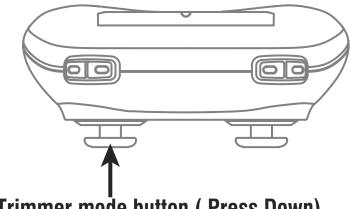
Drone Size	66x66x37mm	Charging Time for Drone Battery	25~30 mins
Drone Weight	23g	Max Flying Distance/Radius	10~15 m
Propeller Diameter	Ø32mm	Camera Resolution	640*480
Flying Time	5~7 mins	Frequency	2.4Ghz
Drone Battery	3.7Vx180mAh	Main Motor	0614*4

## **Exploded View**



No.	Name	No.	Name
1	Drone Cover Housing	8	Camera Lens
2	Propeller Guards	9	Camera Head Cover
3	Camera PCB	10	Lipo Battery
4	Clockwise Motor (Red and Blue Wire)	11	Switch Board
5	B Propeller (Counterclockwise)	12	Receiver Board
6	Counterclockwise Motor (Black and White Wire)	13	Drone Bottom Housing
7	A Propeller (Clockwise)		





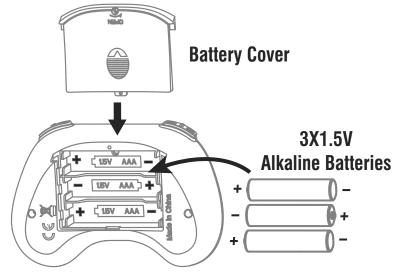
Trimmer mode button (Press Down)

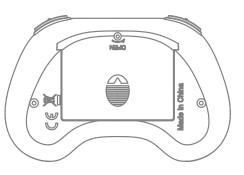
## **Brief Introduction for Button Functions**

r	
Left Stick	Move the Stick to forward / backward / left / right to fly the drone to up / down / turn left / turn right.
Right Stick	Move the Stick to forward / backward / left / right to fly the drone to forward / backward / left / right.
Power Switch	Push up the power switch to turn on the transmitter, and pull down to turn off.
Heading Hold Mode	Press the button to enter heading hold mode, and press again to exit from heading hold mode.
High / Medium/Low Speed Mode	Press down the Left Stick to switch to High /Medium/ Low Speed
Take Off / Landing / Emergency Stop Button	Press the button and the drone will fly up automatically. Press the button again and the drone will land on the ground automatically. Press and hold the button more than 1s, the drone propellers will stop and fall down immediately.
Trimmer mode Button	Press down this button, move the right stick to the required trimmer direction, then it will adjust the direction accordingly, when loose the stick, then ESC from the trimmer mode.

## **Battery installation:**

Open the battery cover on the back side of the transmitter and put 3 alkaline batteries (AAA, not included) into the box in accordance with electrode instructions, as picture shown.





12

1. Make sure the electrodes are correct.

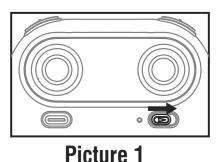
#### 2. Do not mix new with old batteries.

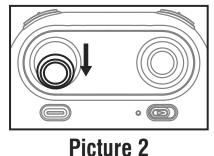
#### Notice:

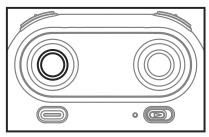
- 3. Do not mix different kinds of batteries.
- 4. Do not charge the non rechargeable battery.

# **Pre-flight Operation Instruction** Frequency Pairing

 Turn on the transmitter switch (Picture 1) and the power indicator light flashes rapidly. Push the Left Stick all the way down to the lowest position and then release. The Left Stick will back to the middle position automatically. (Picture 2 / 3) The power indicator light flashes slowly, which indicates the transmitter is ready for frequency pairing.

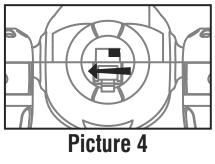






Picture 3

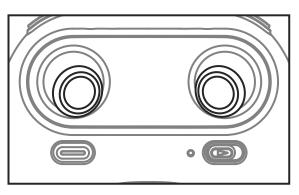
- 2. Power on the drone. (Picture 4)
- 3. Put the drone on the flat surface, the drone body lights turn from flashing to solid bright, which indicates successful frequency pairing.



Important Notice: Please make sure the drone is placed on the horizontal position after powering on the drone, so that the drone can work well.

## **Checklist before Flight**

- 1. The camera is in front of the drone. Keep the drone front away from you.
- 2. Power on the drone and check the direction of the rotating propellers. The left front and right rear A propellers rotating clockwise while the right front and left rear B propellers rotating counterclockwise.
- 3. Move the Left Stick and Right Stick at the same time as Picture 5 shown(45 degree inward) to start the motors and repeat previous step again to lock the motors.



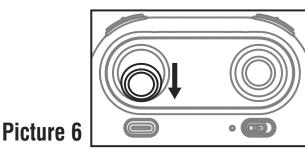
Picture 5

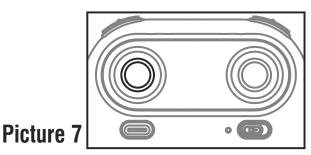
- 4. After starting the motors, push up the left stick to fly up the drone slowly, and then pull down the left stick to the lowest position slowly, then the drone lands on the ground.
- 5. It's recommended to repeat above Steps 4 to practice.
- 6. Adjust relative transmitter Trimmer button to adjust the rudder if the drone tilts to one side when flying.

## **Calibration Instruction**

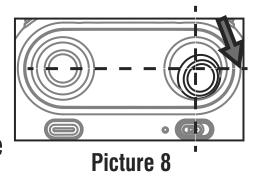
Please follow below steps to calibrate the drone if the drone becomes imbalance after crashing during the flight, and can not be adjusted by trimmer button and cause difficult operation.

- 1. Power off the drone, then turn off the transmitter switch.
- Turn on the transmitter switch, push the Left Stick all the way down to the lowest position (Picture 6) and then release. The Left Stick will back to the middle position automatically (Picture 7). The transmitter is ready for frequency pairing mode.





- 3. Power on the drone and put it on a flat surface in a horizontal position. The drone body lights change from flashing to solid bright, which indicates successful frequency pairing.
- 4. Do not move the Left Stick before successful calibration. Push the Right Stick as Picture 8 shown and then release. The drone body lights flash, which indicates that the drone is calibrating. When the drone body

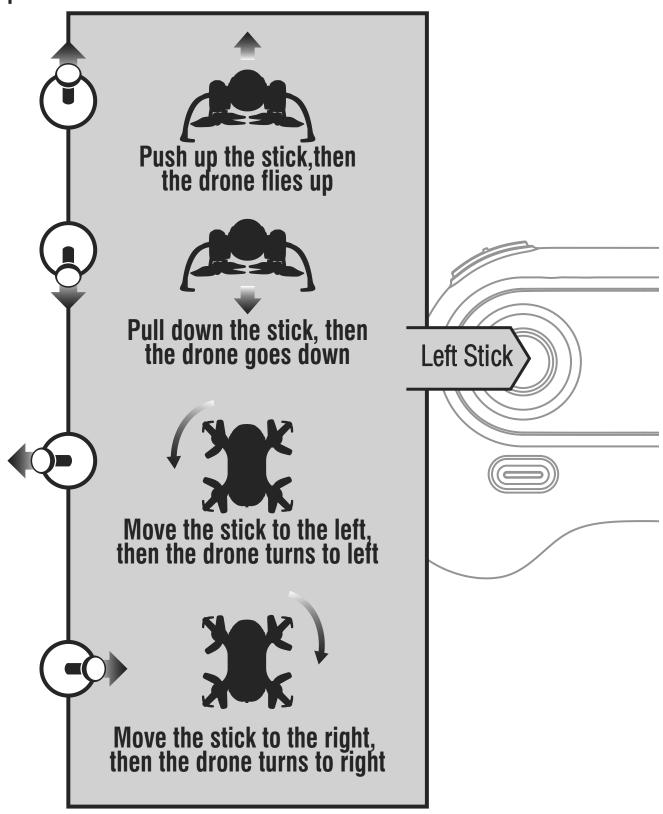


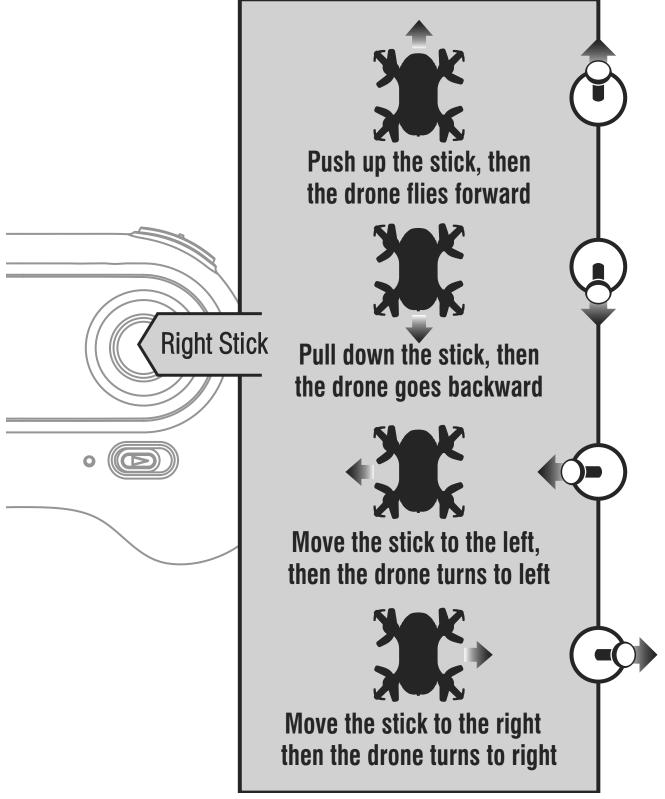
lights become solid, which indicates successful calibration.

Notice: When the drone is fiercely impacted or crashed, it may cause the gyro can not recover and cause difficult control, if so, then you need to power off and power on again to calibrate.

## **Flying Control**

Notice: Every time before the drone take off, move the Left Stick and Right Stick at the same time as Picture 5 shown(45 degree inward) to start the motors. Push up the Left Stick slowly to fly up the drone or press down the one button take off.





## Forward and backward trimmer

0

When take off, if the drone tilts forward, press down the left stick in the center, and push the right stick backwards. Otherwise push forwards.

## Left and right turning trimmer

When take off, if the drone head rotates to left, then press down the left stick in the center and push left stick to right. Otherwise push to left.

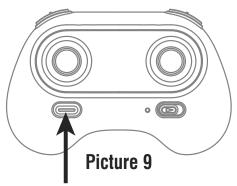
#### Left and right side flying trimmer

When take off, if the drone tilts to left, then press down the left stick in the center and push the right stick to right side. Otherwise push to left.

# **Functions Introduction**

## Two Take Off Methods

- Method 1 (Take off) : After frequency pairing successful, then move the Left Stick and Right Stick at the same time as Picture 5 shown(45 degree inward) to start the motors. Push up the Left Stick to fly up the drone to certain altitude and then release the stick.
- 2. Method 2 (One Button Take Off): Press the Take Off / Landing / Emergency Stop Button (Picture 9), the drone will fly up automatically and keep flying at an altitude of 1.2 meters approximately.



Take Off / Landing / Emergency Stop Button

## Landing Methods

- 1. Method 1 (Landing): Push the Left Stick all the way down to the lowest position(Picture 2/6) and hold it till the motors stop and the drone will land on the ground.
- Method 2 (One Button Landing): Press the Take Off / Landing / Emergency Stop Button once shortly(picture 9), and the drone will land on the ground automatically.

# (When using this function, you can not touch the left stick, if not, then the function will fail)

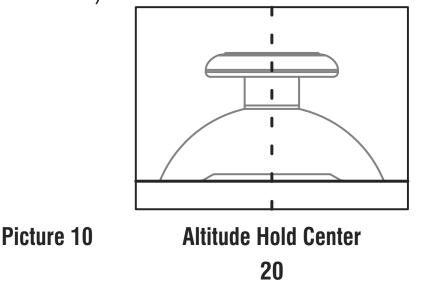
Emergency Stop: When the drone in emergency situation and going to hit the walking people or obstacle etc., press the Take Off / Landing / Emergency Stop Button immediately and hold it for more than 1s. The propellers will stop immediately.

Tip: Do not use the emergency stop function unless in emergency situation. The drone will fall down suddenly after all propellers stop.

## Altitude Hold Mode

Altitude hold mode indicates that the drone maintains a consistent altitude while allowing roll, pitch, and yaw to be controlled normally. It makes easier to control the drone for beginner and more stable for aerial photography.

Push the Left Stick up (down) to fly the drone up (down) at certain altitude and then release the Stick. The Stick will back to the center position (Altitude Hold Center) as Picture 10 shown. And the drone will keep flying at current altitude. Repeat above steps if you want to change the drone altitude (Default mode).



## High / Medium/Low Speed Mode Switch

#### Low Speed Mode(Mode 1)

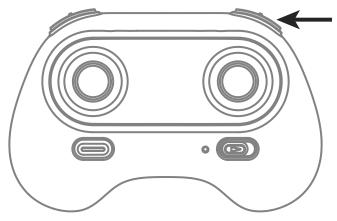
1. Low Speed Mode is suitable for beginner.

#### Medium speed Mode(Mode 2)

2. Medium Speed Mode is suitable for skillful pilots to play in the gentle breeze.

### High Speed Mode(Mode 3)

3. High Speed Mode is suitable for expert to experience aerial stunt in outdoor.

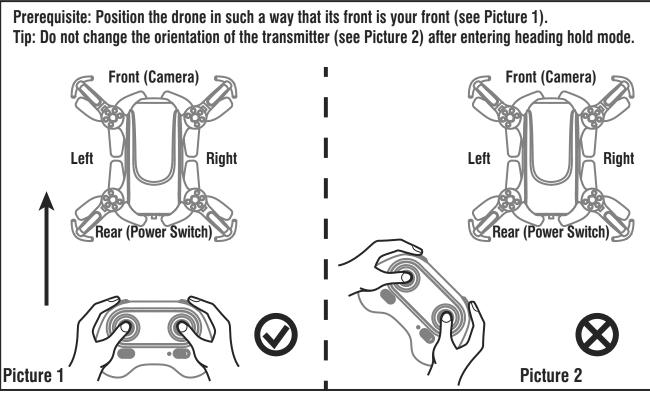


High / Medium/Low Speed Mode Switch

## **Heading Hold Mode**

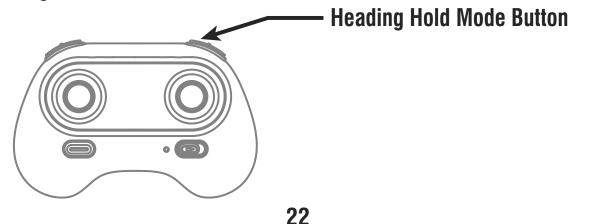
\* Drones generally have a front and rear indicated by LED lights or colored propellers. By default, the users are required to tell the front and the rear of the drone when flying. Under heading hold mode, the users can operate the drone without worrying about the orientation (left is left and right is right all the time, regardless of where your drone is pointing at). Heading Hold Mode is designed for beginners and users who fly the drone in daylight or at a far distance.

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



**To turn on Heading Hold Mode**, press Heading Hold Mode button and the drone LED lights flash, which indicates the drone enters heading hold mode.

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



## Low Battery Alarm

When the transmitter in low battery, the transmitter will beep Di-di-di... to remind the user to land the drone to replace the batteries as soon as possible. Or the drone may be out of control.

When the drone in low battery, the transmitter will beep Di.di.di... 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.

## **Out of Range Alarm**

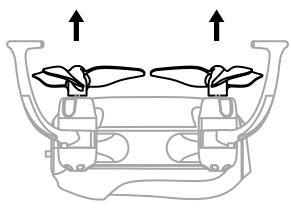
When the drone is going to fly out of the max remote control distance, the transmitter will beep Didi..didi..didi... to alarm the user to fly back the drone immediately. Or the drone may be out of control and fly away.

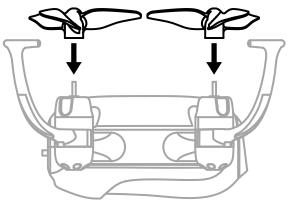
# **Spare Parts Installation Instruction**

## **Propeller Installation and disassembly Diagram**

When disassemble, pull up the propeller in the vertical direction (Picture 11) and remove as Picture 12.

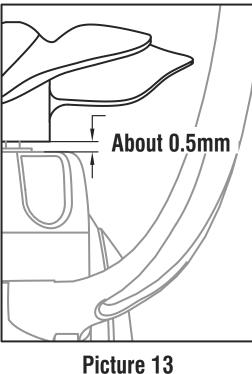
Notice: Because the propeller is blowing up structure, it should keep a bit gap between the motor housing and the propeller( Picture 13).





Picture 11

Picture 12

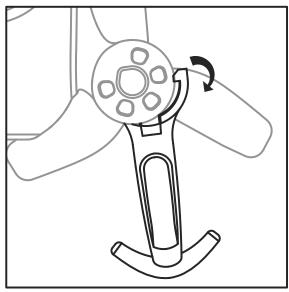


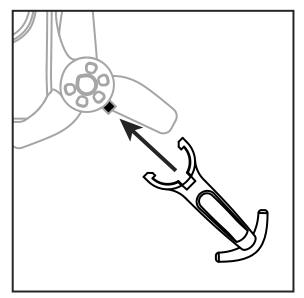
24

# Propellers guards installation and disassembly diagram

When disassemble, remove one side of the guard from the buckle, and then pull out (Picture 14).

When install, aim the groove of the motor housing buckle and then press down (Picture 15).





Picture 14

Picture 15

# To know your APP

## **Download and Install the APP: Flyingsee**

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

- 1. For mobile phone with iOS system, please search Flyingsee in APP Store.
- 2. For mobile phone with Android system, please search Flyingsee in Google Play.

3. Scan the QR code on the right or the QR code in the box to download Flyingsee.

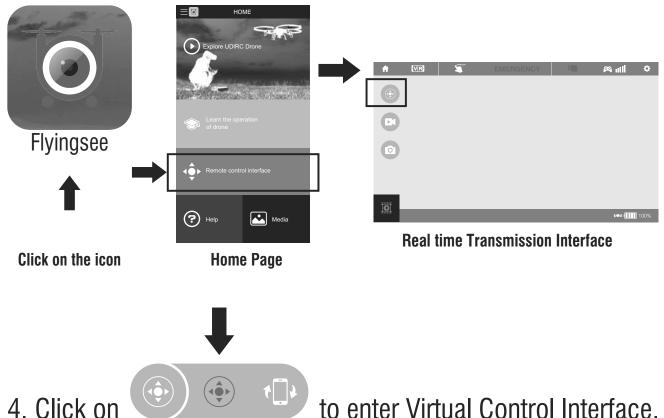




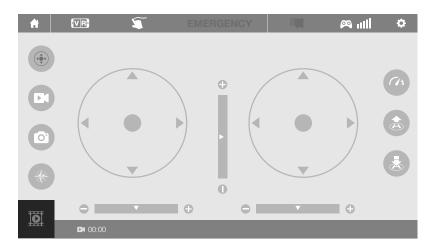
# Frequency Pairing between Mobile Phone and Drone WiFi:

- 1. Power on the drone. Put the drone on the flat surface in horizontal position.
- 2. Enter "set up" of the mobile phone, turn on WiFi (WLAN) and choose udirc-\*\*\*, return to desktop after successful connection.
- Click on the icon Flyingsee and click on <<p>↓ to enter
   remote control interface to experience real time transmission.

#### www.udirc.com



At this time the drone LED lights change from flash to solid bright, which indicates successful frequency pairing and the drone is ready to be controlled via APP.



**Virtual Control Interface** 

Important Tip: Ensure the drone is put it on a flat surface in horizontal position so that the drone can work well. Or it may be failed to control.

# Introduction for APP Icons

## Home Page Icons



Explore UDIRC Drone

Learn the operation of Drone

**Remote control interface** 



## **Remote Control Interface**



## Home Page Icon

Click on the icon and back to home page.



#### Virtual Reality Mode

Click on the icon to enter virtual reality mode to experience first person view (only available when using with a VR headset). Click on the icon again to exit from virtual reality mode.





#### Flight Route Setting Mode

Click on this icon and it turns red. Draw a flight route in the right area. The drone will fly according to the flight route. Click on the icon again to exit from Flight Route Setting Mode. The icon turns white.

## EMERGENCY Emergency Stop

The icon is red by default. Click this icon and the propellers will stop immediately. The drone will fall down to the ground straightly.

Tip: Do not use the emergency stop function unless in emergency situation.



#### **Remote Control Signal**

To show the drone's WiFi signal strength.



## Setting

Click on this icon to set some parameters, and click again to exit.

	SETTING		Click on "Sovo" to covo
Trimming	O Save	O Reset	Click on "Save" to save trimming setting. Choose "Reset" for facto
Transmission quality		O 480P	reset.
		29	

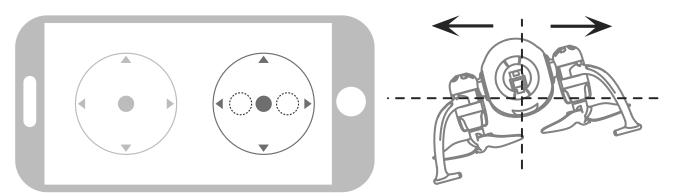
#### **Remote Control**

### **Virtual Control Stick**

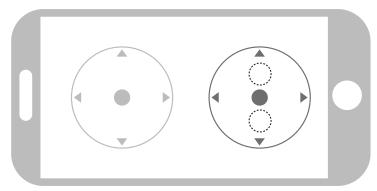
The virtual control stick is hidden by default. Click on the icon to turn on the virtual control stick.

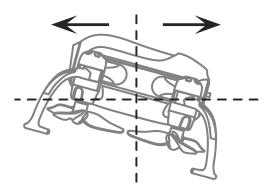
#### Gravity Induction Mode

Click on this icon to enter gravity induction control mode. (only available for flying left / right and forward / backward). Click on the icon again to exit from gravity induction control mode.



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.



#### Video

Click on this icon to record video. The recording time will show at the bottom of the screen. Click on this icon again to finish recording.



#### Photo

Click on this icon to take photo.



#### **Heading Hold Mode**

Click on this icon and it turns red, which indicates that the drone enter Heading Hold Mode. Click again to exit from Heading Hold Mode. The icon turns white.



#### Media

Click on this icon to view or delete the aerial video and photo. Click on the arrow to exit.

## H (7) High / Low Speed Mode

By default, the drone is in Low Speed Mode "L". Click on "H" to enter High Speed Mode.



#### **One Button Take Off**

Click on this icon and it turns red shortly. The drone will fly up automatically and stay flying at an altitude of 1.2 meters.

## **One Button Landing**

Click on this icon and the icon turns red, the drone will fly down slowly and land on the ground. All propellers also will stop.

The video and the photos are stored in the local phone gallery, you can display it in the phone directly,

or you also can display it in the APP via quick icon to enter Media interface.



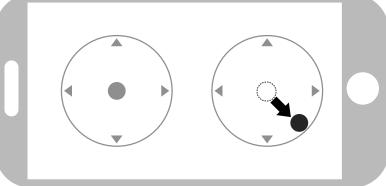
Notice: App must be authorized to access the phone gallery, if not, then may be unavailable to display the video and photos.

## **APP Calibration Instruction**

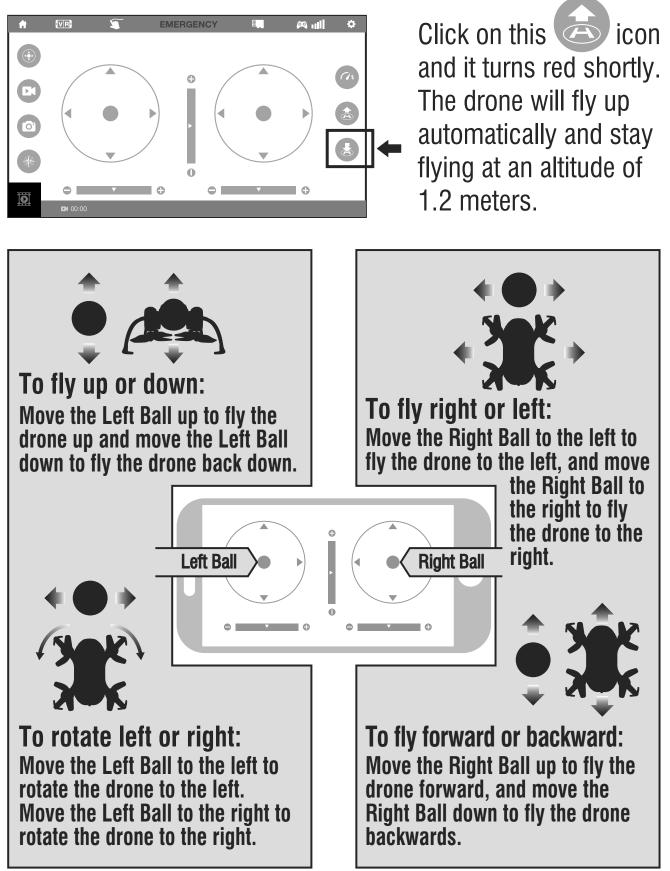
If the drone becomes difficult to operate and hover, you need to calibrate again.

- 1. Please refer to the Frequency Pairing between Mobile Phone and Drone WiFi.
- 2. Do not push the Left Ball before successful calibration. Move the Right Ball as the picture shown on the right. The drone body front light flashing, which indicates that the drone is calibrating. When the drone body front light gets solid, which indicates successful calibration and the drone

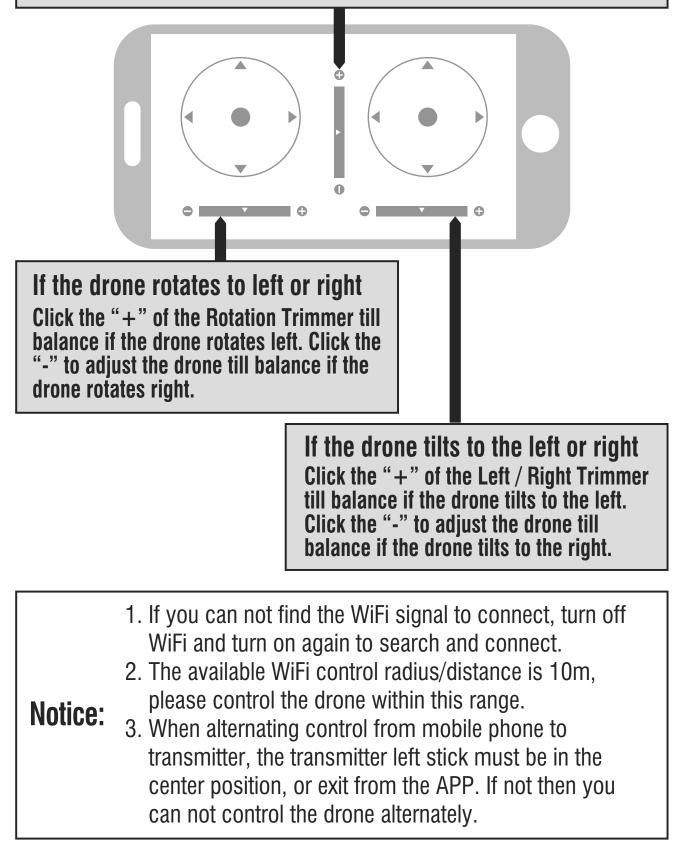
is ready to be controlled.



## APP Flying Control Take off



If the drone tilts forward or backward Click the "-" of the Forward / Backward Trimmer to adjust the drone till balance if the drone tilts forward. Click the "+" to adjust the drone till balance if the drone tilts backward.

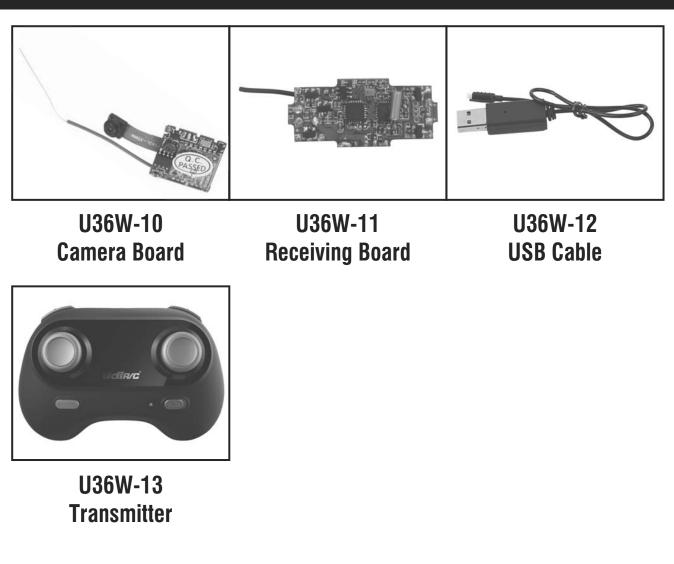


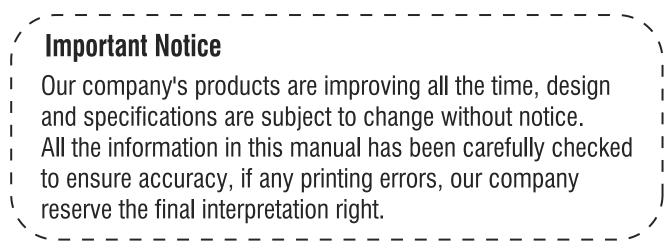
# **Spare Parts**

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



#### www.udirc.com





Guide
ooting
ublesh
<b>Tro</b>

No.	Problem	Problem Cause	Solution
		1. Low battery.	1. Replace the transmitter battery.
-	The transmitter indicator	2. The battery positive pole and negative pole are in reverse order.	2. Install the battery in accordance with the user manual.
	light is off	3. Poor Contact.	3. Clean the dirt between the battery and the battery slice.
		1. Indicator light is off.	1. The same as above 1.2.3.
	Fail to pair	2. There is interfering signal nearby.	2. Restart the drone and power on the transmitter.
2	une arone with 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.
	The drone	1. The propeller deformed seriously.	1. Replace the propeller.
c.	is under-	2. Low battery.	2. Recharge the drone battery.
•	powered or can not fly.	3. Incorrect installation of propeller.	3. Install the propeller in accordance with the user manual .

		1. The propeller deformed seriously.	1. Replace propeller.
	The drone	2. The motor holder deformed.	2. Replace the motor holder.
4	could not hover and tilts to one side.	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.
		1. Low battery.	1. Recharge the drone battery.
Ŋ	The drone indicator	2. The battery is expired or over discharge protection.	2. Buy a new battery from local seller to replace the battery.
	light is off.	3. Poor contact.	3. Disconnect the battery and then connect it with the plug again.
	Could not	1. Did not connect the wire of camera box or poor contact.	1. Check the wire and connect well.
9	see the	2. There is interfering signal nearby.	2. Cut off the wire and re-connect.
	picture.	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**



www.udirc.com