UdiR/C®

FREE LOOP

U27

PARTS NAME

1. Drone

Blade   Head light   blade

Protection frame

Body light   Body light

Blade   blade

2. Transmitter

Power switch
Power indicator
Throttle/Rudder stick
Forward/backward /left/right stick
Forward/backward trimmer
Rudder trimmer
left/right trimmer
LCD display

Standard/reverse left side 180°flip button
Standard/reverse right side 180°flip button

Quick button

H/M/L speed switch key

Standard/reverse flight and four direction 180°flip button(press one time)
Headless mode switch
(press down for 3 seconds)

LCD display instructions:

1 — signal status
2 — L
3 — M
4 — H

5

TX

6

9   8   7

1. The signal status
2. Low speed
3. Middle speed(Defaulted)
4. High speed
5. Battery status
6. Forward and backward trimmer line
7. Left and right trimmer line
8. Throttle digital display
9. Rudder trimmer line
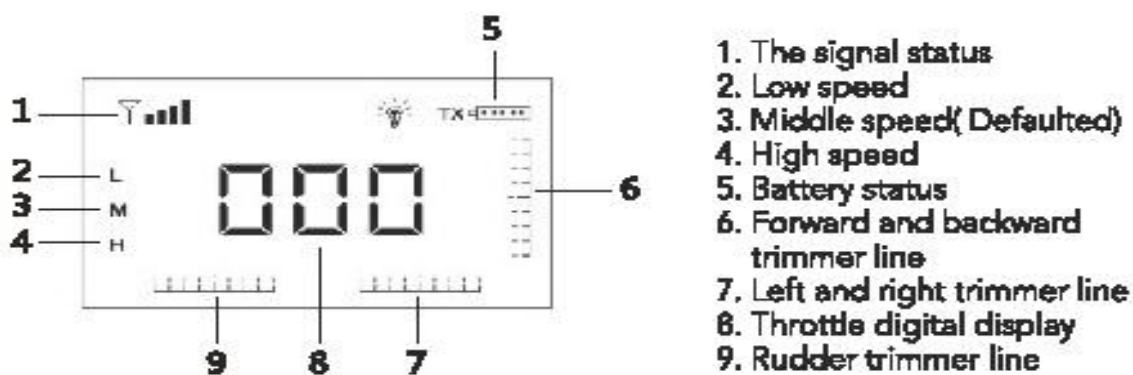
PRECAUTIONS

1. Important Notice

(1) This product is not a toy,it's a piece of complicated equipment which integrated with professional knowledge by mechanic, electric, air mechanics,high-frequency transmitter and so on, so it should be installed correctly and adjusted to avoid any accidents. The owner must always operate in a safe manner, if improper operation that caused human injuried or property damage, then we Udirc accept no liability for any safety duties from operation. As we have no control over the way they maintained,used and operated.

(2) This product is suitable for people aged 14 years or more.

(3) The Flight field should be legally approved by the local government.

(4) We Udirc accept no liability for any safety duties or fines arising from operation,usage or mis-control after the sale of products.

(5)For technical support,operation,maintenance,etc, please contact the local distributors in your country, we have consigned to them service after sale.

2. Safety Precautions

Keep away from crowd when flying, since RC helicopter flight is a high risk hobby. Mis-assemblied or broken main frame or defective electronic equipment or unskilled operation may cause accidents of machine damaged or injuired. Please pay special attention to safety operation and have good knowledge of accidents responsibility that the pilots may cause.

(1) Keep away from people and obstacles

"The flying speed and status of RC helicopter is uncertain,so it may cause potential danger." When choosing a flying site should stay clear of buildings, trees and power lines. AVOID flying in or near crowded areas. Meanwhile avoid flying in rain, storms, thunder and lightening to protect machinery and parts out of damage.

(2) Keep away from Humid environments

Inside of helicopter is made up of precise electronic components, it must be away from humidity or water vapor to protect machinery and parts.

(3) Safety operation

Please fly your helicopter according to your physical status and flight skill. Fatigue, listlessness and mis-operation will increase possibilities of accidental hazard.

(4)Keep away from rotating blades

Keep your face and body as well as all spectators away from the rotating blades.The spinning blades of a model of this type can cause serious injury.

(5) Keep away from heat

A RC helicopter is made up of metal, fiber,plastic,electronic components,etc. So we must try to keep it away from heat and sunshine to avoid distortion, even damage.

3. Check List Before First Flight

(1) Flying field should be in an open space and we suggest at least 8M length *8M wide*5M height.

(2) Make sure the receiver and tansmitter is fully charged.

(3) Make sure the throttle stick of transmitter is at the lowest position

(4) please strictly obey the order of turn-on, turn-off before operation.

When starting your flight,first turn on the transmitter,and connect power cable of helicopter last;

When finishing your flight,please disconnect the power cable of your helicopter first,turn off transmitter last.

An upset in the order of connection may cause your helicopter loose control to threaten yourself and others safety.

Please follow a correct habit of turn-on and turn-off.

(5)make sure the connection is solid between battery and motor.

The ongoing vibration may cause bad connection of power terminal and out of control for helicopter.

(6) If improperly operation, it may cause noisy or motors problem and influence on flight condition or difficult flight. We suggest you to buy spare parts for replacement and make sure the drone is in good condition.

TRANSMITTER ASSEMBLY

Battery installation: Open the battery compartment cover of transmitter, install the battery into box according to electrode instructions (Batteries not included).


4*1.5V AAA battery

Battery cover
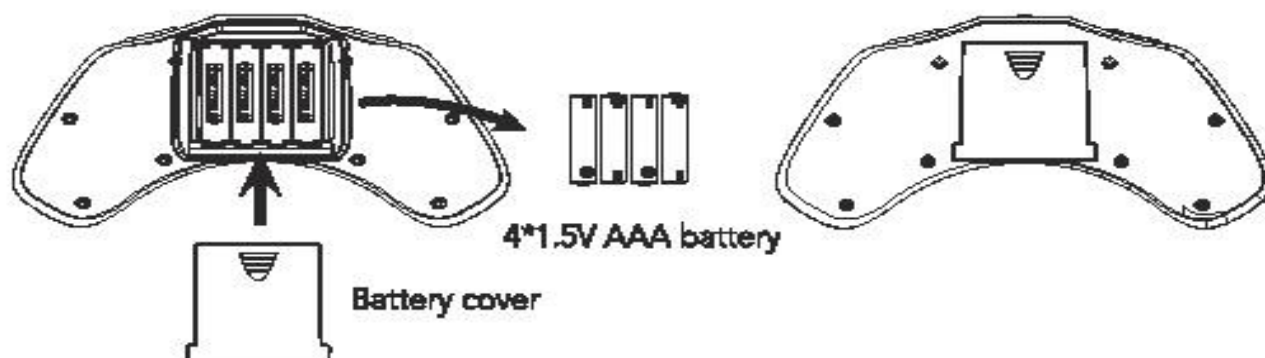
Notice:	1. When install the battery, you must obey the electrode instructions,Loaded reverse is not allowed. 2. Please don't mix new and old battery together. 3. Please don't use different kinds of batteries.

CHARGING FOR LIPO BATTERY

1. Connect the drone battery to USB charger box, and then choose one of below ways to charge(smartphone charger preferred)
2. When charging, the USB indicator gets a solid light
3. After charging about 70 minutes, the USB indicator light will be off and it shows fully charged.
* This item is equipped built-in lipo batery, please pay attention to the precautions.
* Please don't put the lipo battery with power under high temperature, such as fire or heat equipments, otherwise it may cause damage or Explosion.
* Don't use the battery to punch or knock any hard surfaces
* Please don't immerse the battery in water. Keep the battery at dry place.
* Please don't break down the battery.
* Please don't leave the Lipo battery charging alone.
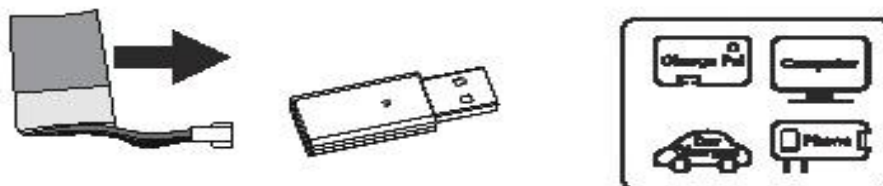
🗑 **The Li-Po batteries may be recycled** ♻

Please discard old batteries in a proper recycling station.
Do not throw batteries in the regular trash. If you have questions,
please contact your local environmental agency to collect old batteries.

OPERATION STEPS BEFORE FLIGHT

1. Power on transmitter,the LED indicator becomes flashing fast, You need to move up t hrottle stick to top end and then pull down to low end,then LED indicator becomes slow flashing. It shows transmitter sends out code pairing with receiver.
2. Install the battery to UFO mounted box,power on the UFO.
3. Put the UFO on the flat ground,When the bottom light stops flashing and becomes stable then it shows code pairing successfully and ready to fly.

Important notice: When power on the UFO,the receiver gyro will need to calibrate level, so it must make sure the surface is level. Then the UFO will be ready for controlling.
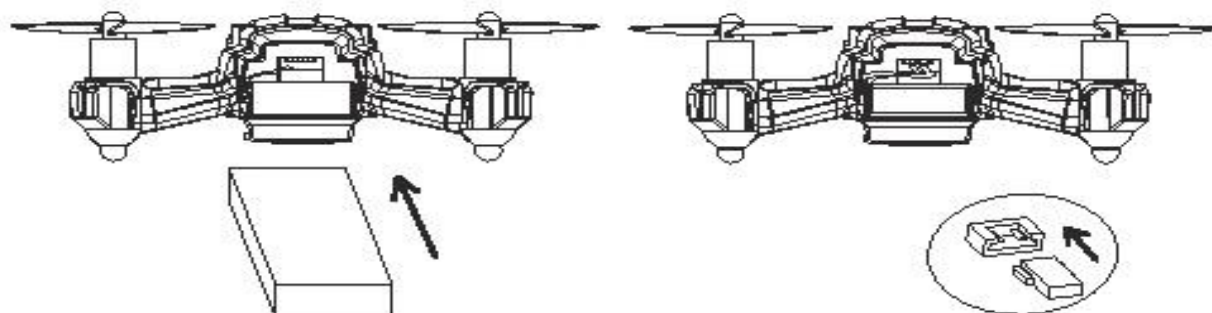
ADJUSTMENT INSTRUCTIONS

When the UFO takes off, hovering can't be adjusted by trim and causes difficult operation, then please adjust the UFO according to below steps:
1. Pull out the power of UFO, power off the transmitter;
2. Power on the transmitter, push the throttle stick to utmost and then back to lowest position.(see 1/2 pic),then the transmitter is ready to code pairing.
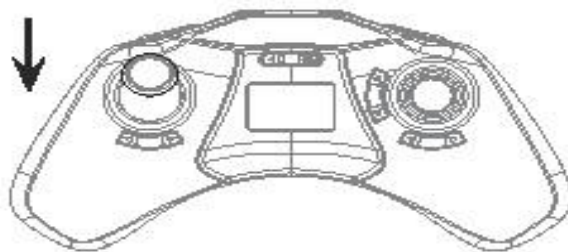
3. Power on the UFO,and put it in the level surface, About 3 seconds later, you will hear "di,do,di", and it shows code pairing successful and the body LED gets a solid light.
4. It's not allowed to push the throttle stick before adjustment, move the stick to right rear utmost(see below pic 3),then the LED light of UFO body starts to flash,it shows the UFO is adjusting now. When UFO gets a solid light,it shows adjustment finished and UFO is ready to fly.
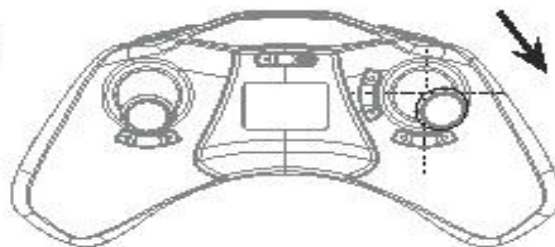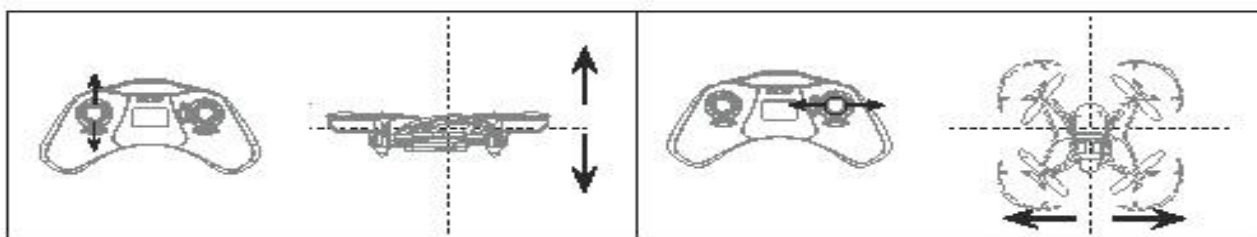
ADDITIONAL STATEMENT BEFORE FLIGHT

1. Body light is at front.
2. Power on the UFO,check the rotating of blades.Left Front/Right rear blades rotating Clockwise, Right front/Left rear rotating Counterclockwise.
3. When flying, UFO tilts to one side,then you can adjust balance by relative trim key. When adjustment is finished, then put the UFO in the level surface to remember trimmer status, then make 180°switch.

Clockwise A blade   Front   Counterclockwise B blade

Left   right
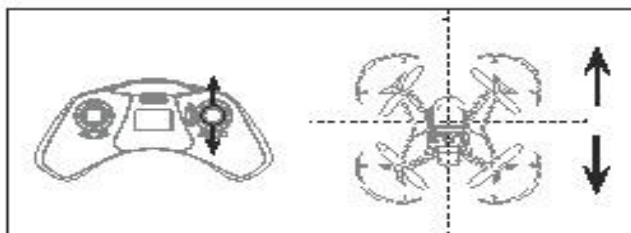
Counterclockwise B blade   Back   Clockwise A blade
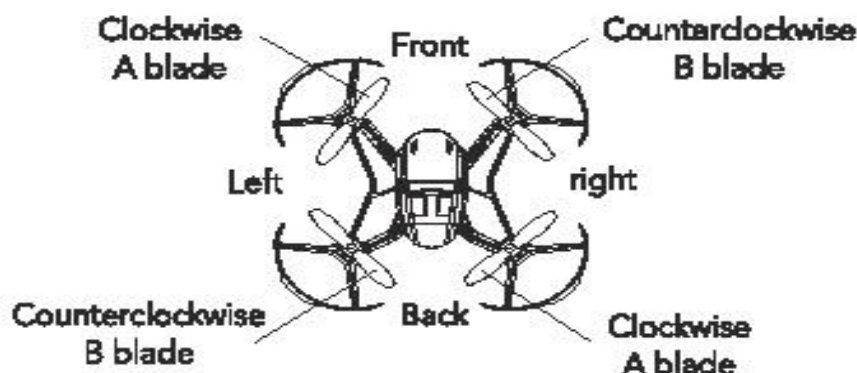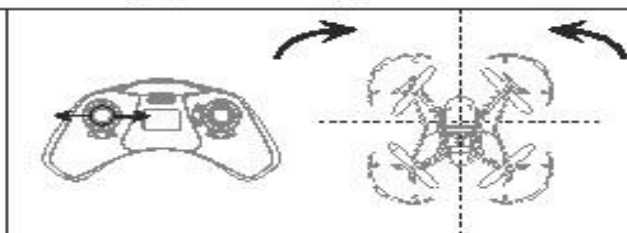
Flight control

1. When move throttle stick up or down, then UFO flying up or down at the same time.
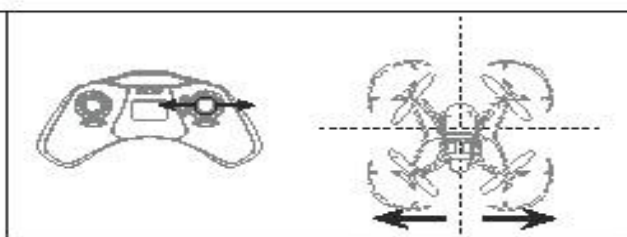
2. When move forward and backward/left and right flying stick to left or right, then the UFO flying to left or right at the same time.
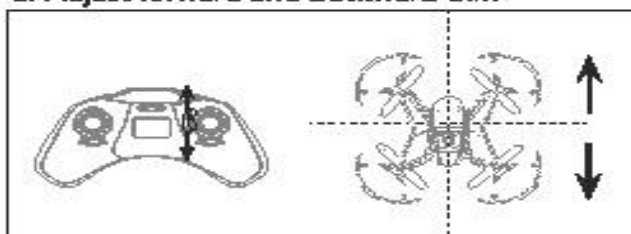
3. When move forward and backward/left and right flying stick up or down, then the UFO flying forward or backward at the same time.
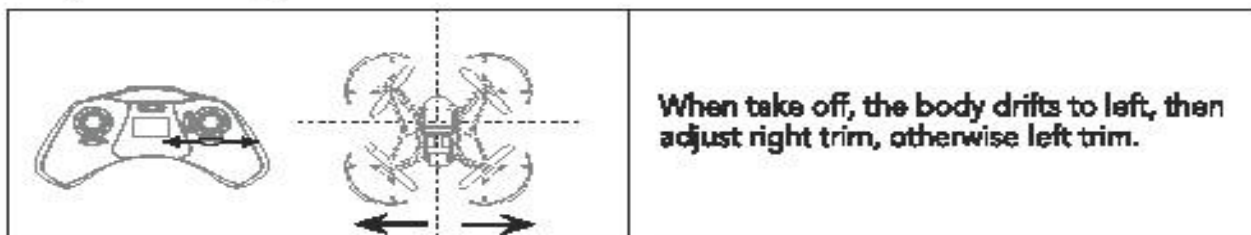
4. When move throttle stick to left or right, then the UFO flying left or right rudder at the same time.

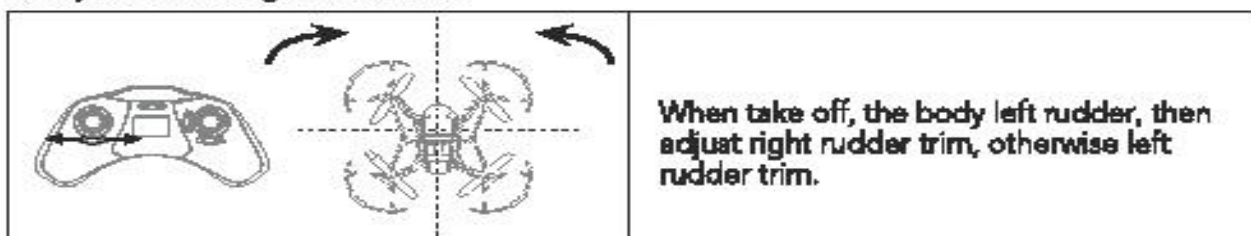5. Adjust forward and backward trim

When take off, the body drifts forward, then adjust backward trim, otherwise forward trim.

6. Adjust left and right trim

When take off, the body drifts to left, then adjust right trim, otherwise left trim.

7. Adjust left and right rudder trim

When take off, the body left rudder, then adjust right rudder trim, otherwise left rudder trim.

HIGH/MID/LOW SPEED SWITCH MODE

High/Mid/Low speed switch:
The transmitter default setting is L speed mode, press down throttle stick, the transmitter will sound "di di", it shows M speed mode is activated;
When you press down the throttle stick again, the transmitter sounds "di di di", it comes to H speed mode;
Then press down the throttle stick again, the transmitter sounds "di", it returns to L speed mode.

High/Mid/Low speed switch key

INSTANT INVERTED MODE

When the quadcopter is flying, it can flip into "inverted mode "and fly upside down.
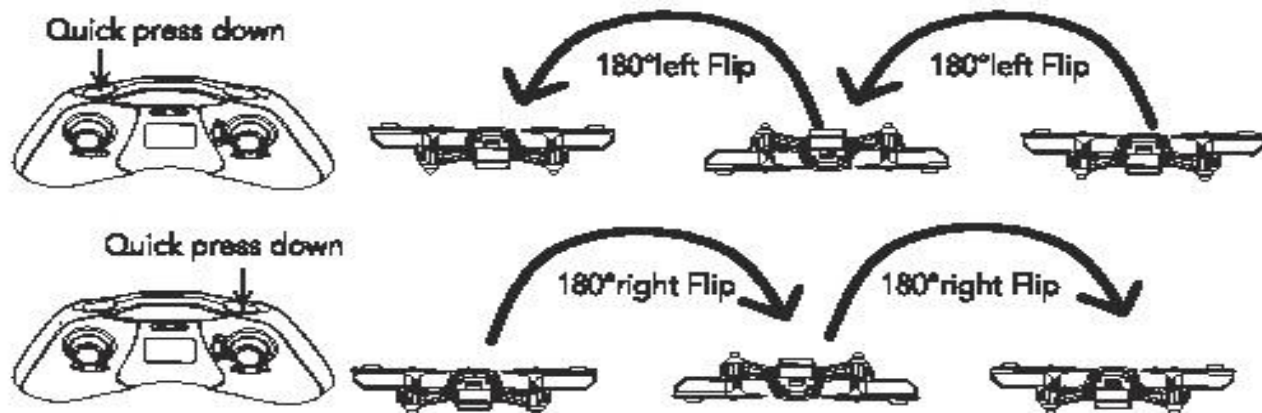To instantly flip 180° to the left, press the LEFT TRIGGER.
To instantly flip 180° to the right, press the RIGHT TRIGGER.

Inverted 180°left flip key   Inverted 180°right flip key

Quick press down · 180°left Flip · 180°left Flip

Quick press down · 180°right Flip · 180°right Flip

180° FLIPS IN ANY DIRECTION

When the quadcopter is flying, it can flip 180° in any of 4 directions. First, press down on the RIGHT STICK. The controller will start beeping "di di di" and enter 180° Flip Mode. Push the RIGHT STICK in the desired direction (forward, backward, left, or right)to flip the quadcopter 180°. To cancel 180° Flip Mode instead, press down on the RIGHT STICK again.

The quadcopter will flip upside down, then quickly stabilize and level out in an inverted position.

The quadcopter will lose some altitude, so first make sure the copter is flying high above the ground. Flip the quadcopter 180° again to return to normal flight (right side up) before landing.


Flip key
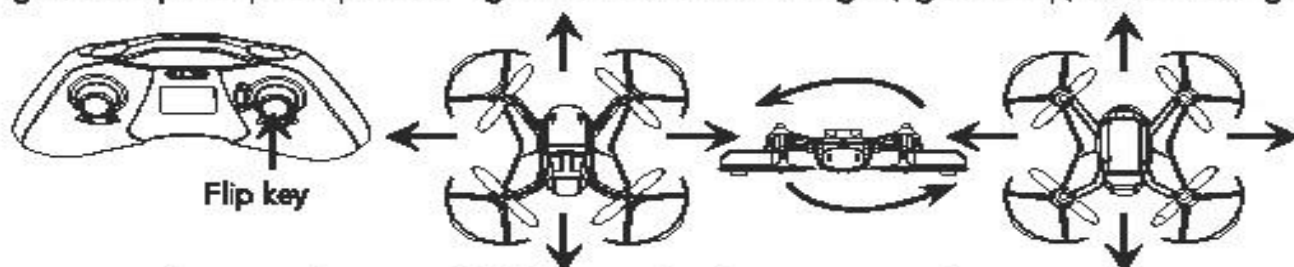
Warning: there must be enough flight space for this operation, otherwise it may cause danger.
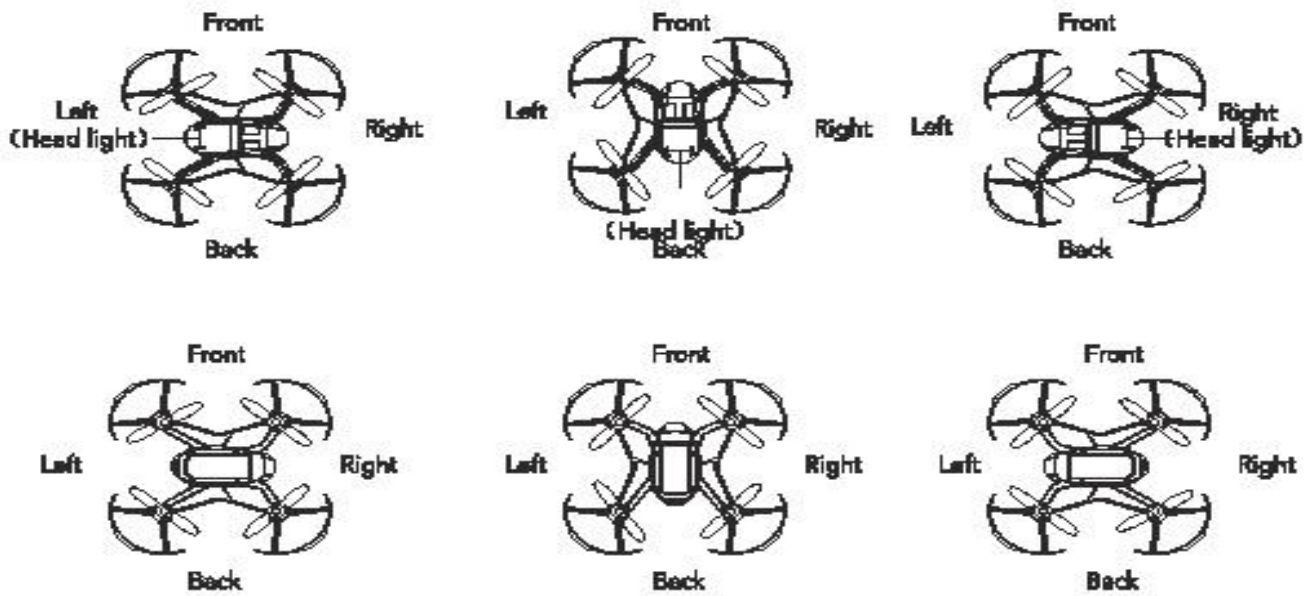
HEADLESS MODE

Press down the headless mode key for 3 seconds, the transmitter will sound " di, di", then the head light will become fast flashing alternatively, it shows headless mode is activated. When headless mode, then you no need to distinguish the direction,the transmitter also no need to distinguish front or back direction.

If quit from headless mode, then press down the headless mode key for 3 seconds again, the transmitter will sound " di, di,di".

Notice: When headless mode, the head of drone must face front. Under headless mode, if the drone is hit or meets other problem, then may cause deviation for the direction or angle. You can quit from headless mode and restart again, then it will recover normal status.

Front
Head light
Left
Right
Back

Transparent white light

Headless mode
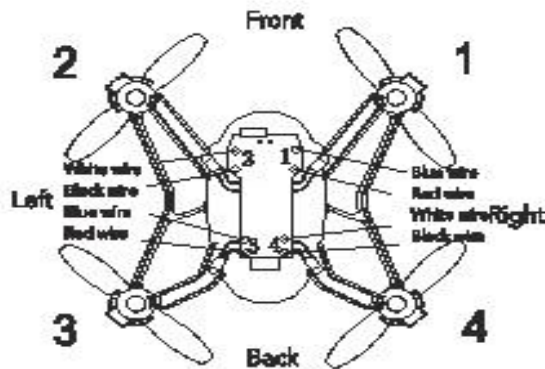Switch key
(Press down 3 seconds)
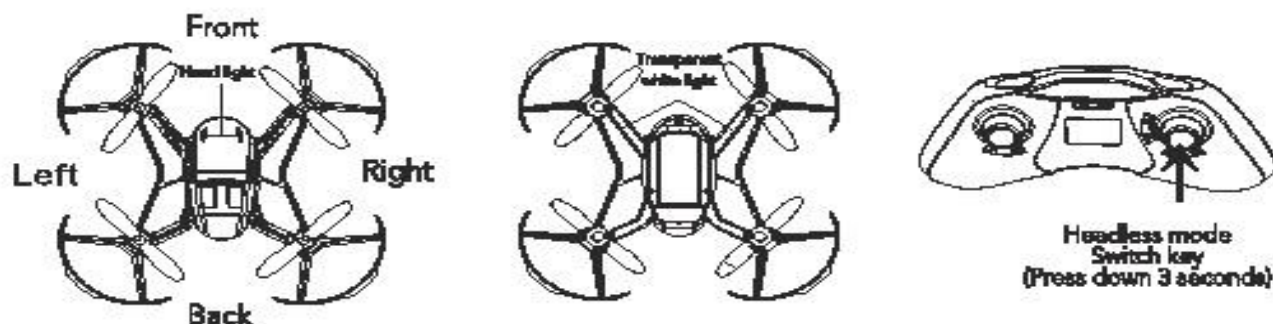
Standard flight, the drone heads front, press down headless key for 3 seconds, the transmitter will sounds "di,di", then it shows that the drone is ready for headless mode. No need to distinguish the direction .

Front

Left
(Head light)   Right

Back

Front

Left   Right

(Head light)
Back

Front

Left   Right
(Head light)

Back

Front

Left   Right

Back

Front

Left   Right

Back

Front

Left   Right

Back

ADDITIONAL STATEMENT FOR RECEIVER

The receiver installation and connection must keep the same as below picture,then the UFO can work well.

Front

2   1

White wire   Blue wire
Black wire   Red wire
Left Blue wire   White wire Right
Red wire   Black wire

3   4

Back

Receiver NO#1 position connect to right front motor wire.
Receiver NO#2 position connect to left front motor wire.
Receiver NO#3 position connect to left rear motor wire.
Receiver NO#4 position connect to right rear motor wire.

SPARE PARTS

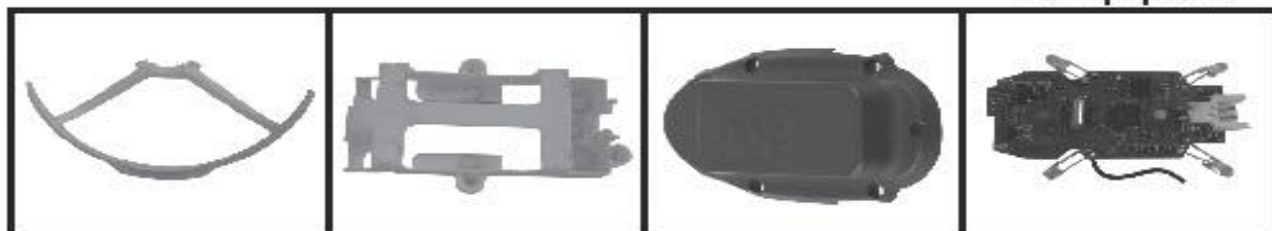Below spare parts are available for purchasing and you can obtain from local distributors.
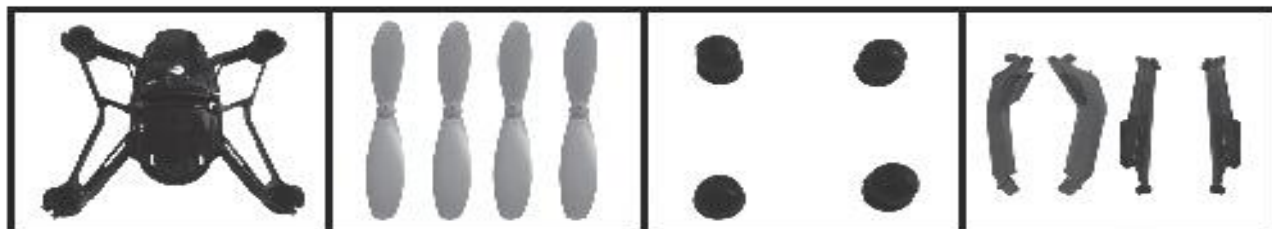
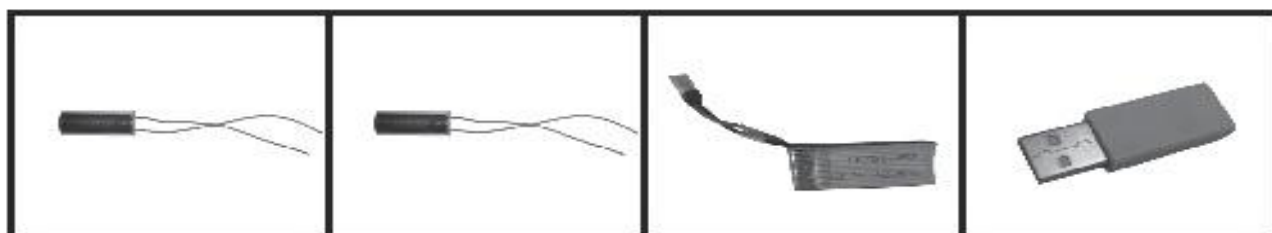|			
U27-01 Main body	U27-02 Blades	U27-03 Soft rubber	U27-04 Transparent Lamp parts
U27-05 Protection frame	U27-06 Battery box	U27-07 Bottom frame	U27-08 Receiver board
U27-09 Standard motor (Red/Blue)	U27-10 Reverse motor (Black/white)	U27-11 Lipo battery	U27-12 USB charger box
U27-13 Body Decoration	U27-14 UA16 Transmitter		