

## QR SERIES



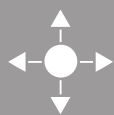
# User Handbook

Specifications:

### Features:

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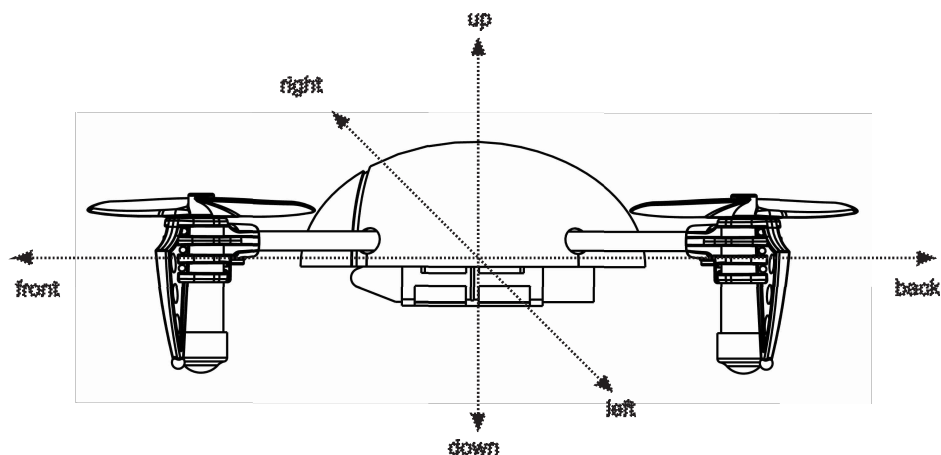
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## 03

### Definition of UFO Orientation

We define the orientation of UFO in order not to cause confusion in the following descriptions. That is to say, the tail boom of UFO is facing the pilot (tail in), and its head facing forward (front of pilot). The left hand of pilot is the left side of UFO, the right hand of pilot is the right side of UFO its head is to the front and its tail boom is to the back. The direction in which main body of UFO is facing is up, and its skids are facing down.



▲ QR Ladybird



▲ Transmitter



▲ Li-polymer battery pack



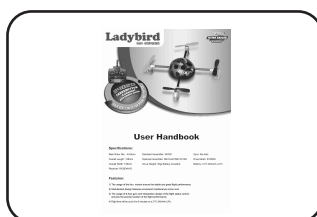
▲ GA006 charger



▲ Tool kit



▲ Main rotor blades



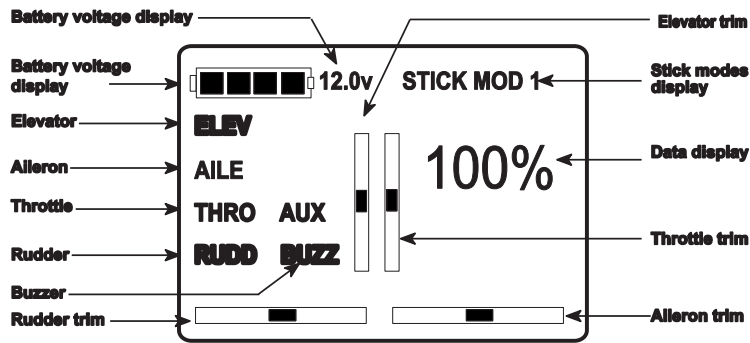
▲ User Handbook

## 04

### Standard equipment

5.1 2402D(standard radio)setting

5.1.1 Main Menu

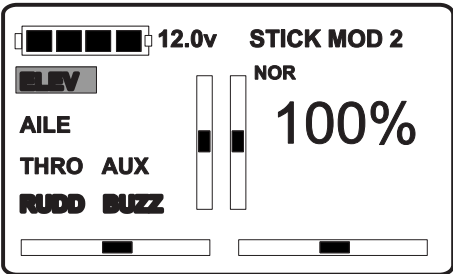
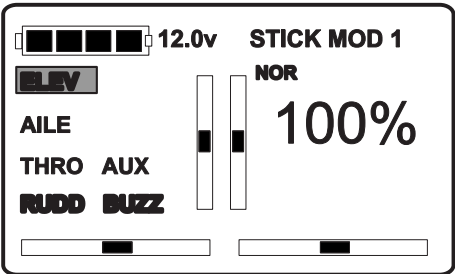


When turning on the transmitter power, the buzzer rings, and 4 trims bars begin to make stream-like movements. After the ID binding is finished, both buzzing and trim bars stream-like movements stop, instead of opening screen appears.

5.1.2 Channel Reverse Setup

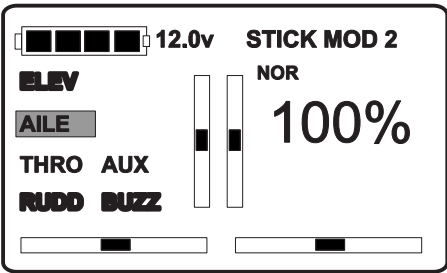
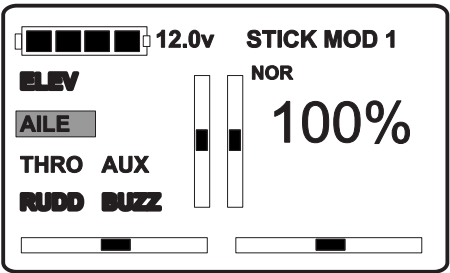
ELEV reverse setup

Press ENT to enter the setting status and both ELEV and the current reverse status NOR or REV are together flashing. If want to make reverse, Press R or L to let NOR flashing, and then press ENT to confirm. Press EXT to exit .



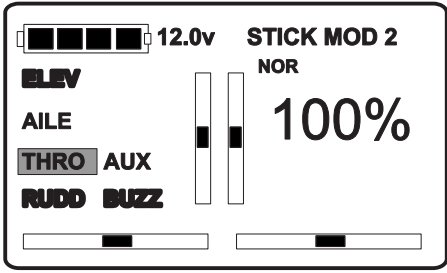
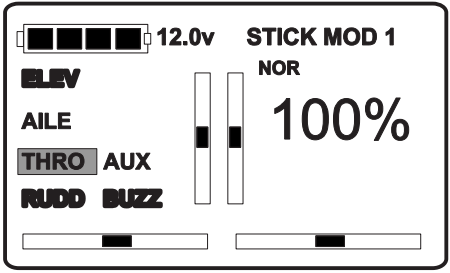
AILE reverse setup

Press ENT to enter the setting status, and both AILE and the current reverse status NOR or REV are together flashing. Press UP or DN to flash AILE while its current reverse status NOR or REV is also flashing. Press R or L to make NOR flashing and press ENT to confirm. Press EXT to exit .



THRO reverse setup

Press ENT to enter the setting status, and both ELEV and the current reverse status NOR or REV are together flashing. Press UP or DN to flash THRO. Both THRO and its current reverse status NOR or REV are together flashing. Press R or L to let NOR flashing, and then press ENT to confirm. Press EXT to exit .



05

Transmitter  
setup

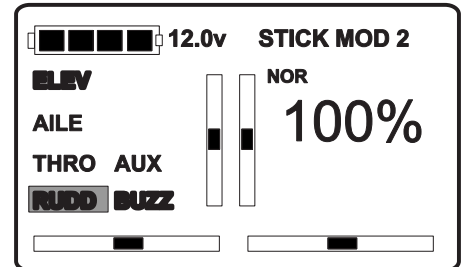
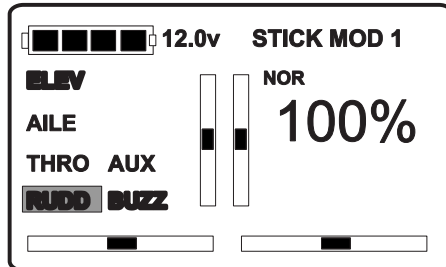


05

## Transmitter setup

### RUDD reverse setup

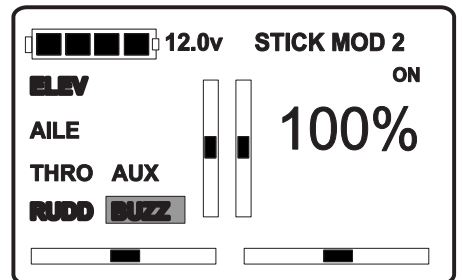
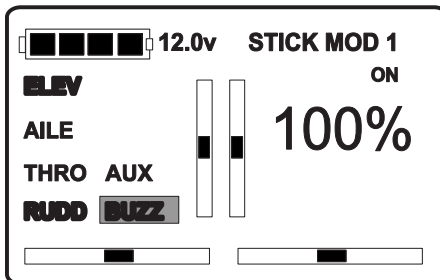
Press ENT to enter the setting status, and both ELEV and the current reverse status NOR or REV are flashing. Press UP or DN to flash RUDD. RUDD and its current reverse status NOR or REV are together flashing. Press R or L to let NOR flashing. Press ENT to confirm, and then press EXT to exit .



### 5.1.3 Buzzer setup

The buzzer setup includes two status: ON or OFF. Below is the setting method:

Press ENT to enter the setting status, and both ELEV and the current reverse status NOR or REV are flashing. Press UP or DN to flash BUZZ. BUZZ and its current switch status ON or OFF are together flashing. If want to change the switch status, press R or L to make ON flashing, and then press ENT to confirm and save. Press EXT to exit.



## 5.2 DEVO-6/7/8S/10/12S(optional radio)settings

### 5.2.1 Type:Helicopter

### 5.2.2 Swash type:1 Servo Normal

### 5.2.3 Device Output

DEVO-6		
Gear	FMOD SW	Active
Pitch	System	Active

DEVO-7		
GEAR	GEAR	ACT
AUX2	FMD	ACT

DEVO-8S		
Gear	GEAR SW	Active
Pitch	System	Active
AUX2	FMOD SW	Active
AUX3	RUDD D/R	Active

DEVO-10		
Gear	GEAR SW	Active
AUX2	FMOD SW	Active
AUX3	RUDD D/R	Active
AUX4	AUX4 KB	Active
AUX5	AUX5 KB	Active

DEVO-12S		
Gear	GEAR SW	Active
Pitch	System	Active
AUX2	FMOD SW	Active
AUX3	AUX3 Lever	Active
AUX4	AUX4 Lever	Active
AUX5	AUX5 Lever	Active
AUX6	AUX6 Knob	Active
AUX7	AUX7 Knob	Active

	Normal
	Normal
	Normal
	Normal
	Normal

DEVO-7	
ELEV	NORM
AILE	NORM
THRO	NORM
RUDD	NORM
GEAR	NORM
PITCH	NORM
AUX2	NORM

DEVO-8S	
Elevator	Normal
Aileron	Normal
Throttle	Normal
Rudder	Normal
Gear	Normal
Pitch	Normal
AUX2	Normal
AUX3	Normal

DEVO-10	
Elevator	Normal
Aileron	Normal
Throttle	Normal
Rudder	Normal
Gear	Normal
Pitch	Normal
AUX2	Normal
AUX3	Normal
AUX4	Normal
AUX5	Normal

DEVO-12S	
Elevator	Normal
Aileron	Normal
Throttle	Normal
Rudder	Normal
Gear	Normal
Pitch	Normal
AUX2	Normal
AUX3	Normal
AUX4	Normal
AUX5	Normal
AUX6	Normal
AUX7	Normal

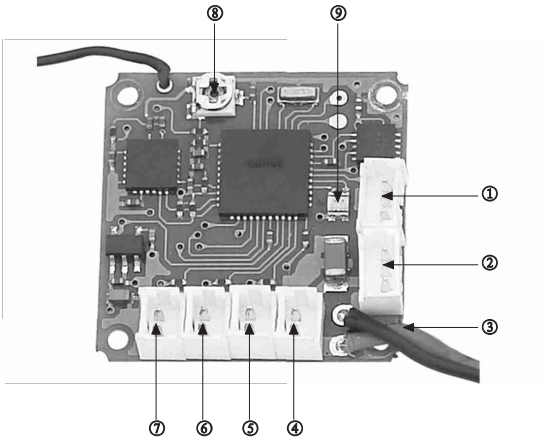


05

Transmitter  
setup

6.1 RX2634H-D receiver features

- (1) Receiver RX2634H-D adopts 2.4G spread spectrum technology with the functions of automatic scanning, code pairing and LED receiving indication.
- (2) Integrated design of 6-Axis gyro and abitude control provides precise locating in air.



06

Setup of the  
RX2634H-D  
receiver

## 06

Setup of the  
RX2634H-D  
receiver

S/N	Name for short	Full name	Function
1	<b>Electric Voltage Output in level</b>	Connect to the outter camera DC wire.	The bind plug face towards left.
2	<b>AUX2</b>	AUX2. Plug in the bind plug to clearance the ID memory.	The bind plug face towards left.
3	<b>Power wire</b>	Connect to the lipo battery.	
4	<b>Right front motor</b>	Connect to the right front motor wire.	The bind plug face towards right.
5	<b>Right back motor</b>	Connect to the right back motor wire.	The bind plug face towards right.
6	<b>Left back motor</b>	Connect to the left back motor wire.	The bind plug face towards right.
7	<b>Left front motor</b>	Connect to the left front motor wire.	The bind plug face towards right.
8	<b>Gyro sensitivity adjust knob</b>	Adjust the gyro sensitivity of the front/back /left/right /tail.	
9	<b>Signal Indicator light</b>	Show the bind status.	

**6.3 Flight Modes switches of the Receiver**

(1) Standard Transmitter: 2402D

**Note:**Please strictly refer to below operations.

- (1.1) Push the throttle stick to the top position, turn on the radio and connect the UFO battery , then comes to the code pairing status.The receiver indicator will flash between red and green alternately after code pairing successfully. That's the Flight Modes switch status.
- (1.2) Under the Flight Modes switch status, turn the Elevator stick up and down four times or above to enter Flight Modes switch (finish in 2 seconds).It is in Normal Flight mode when the red indicator turns solid, and it's in Roll Flight mode when the green indicator turns solid.
- (1.3) After choose the Flight Mode, push the throttle stick at the lowest position,then flight available.

(2) DEVO-6/7/8S/10/12S Transmitter selectable

**Note:** Please set the FMODE switch as "ACTIVE" in the Output setting of Transmitter.

When the FMODE Flight mode switch of the radio at "0" position, the receivers red indicator turns solid as the Normal Flight mode; When the FMODE Flight mode switch of the radio at "2" position,the receiver's green indicator turns solid as the Roll flight mode.

**6.4 Adjustment of receiver**

- (1) Receiver LED indicator:Quick flashing indicates the reception of a new signal; a solid light means connection is completed successfully; slow flashing indicates failure to receive a signal, please disconnect and reconnect the battery.
- (2) Adjust knob of the gyro: CW rotating increase the sensitivity of the Gyro,CCW rotating decrease the sensitivity of the Gyro. The default setting is Middle,generally there is no need to trim.

- (1) GA006 is suitable for 1 cell (3.7V) Li-ion or Li-polymer battery and can charge 2 pieces of batteries maximum at the same time.
- (2) Please plug the pin of your battery into the jack of the GA006 first and then connect to the power. Otherwise, the LED may not become red and the voltage may be higher than 3.8V. You need to disconnect the USB power supply and reconnect it.
- (3) When USB power supply is well connected and battery is charging, the LED will become red. After your battery is full charged, the LED will not become red.

8.1 Installation of battery pack

Install the battery to the pack.

8.2 Turn on the power

8.2.1 Turn on the power

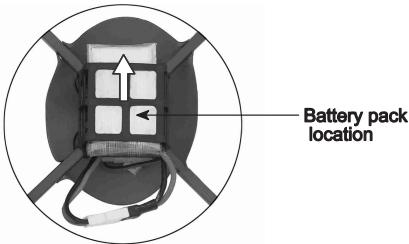


Diagram of battery installation.



1. Install the battery pack in the battery compartment.



2. Turn on the power of transmitter.



3. Pull down the throttle stick and throttle trim of transmitter to the lowest position, and then move the elevator trim, aileron trim, and rudder trim at the neutral positions, respectively.



4. Connect the power cable of UFO to receive signal from transmitter.

8.2.2 Matters needing attention

- (1) Please follow this rules: "Open the radio first ,connect the QR Ladybird power last". After open the radio power button ,please connect the QR Ladybird power in 10S, the signal indicator light begins flashing, the light will be solid after 1~3 seconds.After binding with the radio, the indicator light starts flashing again. If the indicator light turns solid, then the receiver has received the signal of the radio successfully, binding finished.
- (2) If more than 10 seconds passed before the power cable was connected binding will fail. When binding fails, disconnect the battery, turn off the transmitter and repeat step (1).

8.2.3 Trouble shooting a flashing receiver LED after connecting the power cable

Possible causes	Solutions
Code pairing failed.	Turn transmitter off then on and re-connect UFO power cable.
The throttle trim and throttle stick of transmitter are not at the lowest position.	Pull down the throttle trim and throttle stick to the lowest position and re-code pair.
The transmitter battery is low or empty.	Replace transmitter battery and re-code pair (re-bind).
The UFO battery is low or empty.	Replace the UFO battery with a fresh pack and re-code pair.
No function in receiver or transmitter.	Replace faulty receiver or transmitter and re-code pair.



07

Instruction  
for GA006  
Charger



08

Steps of  
flight

\*\*\*\*\*



## 09

Flight over

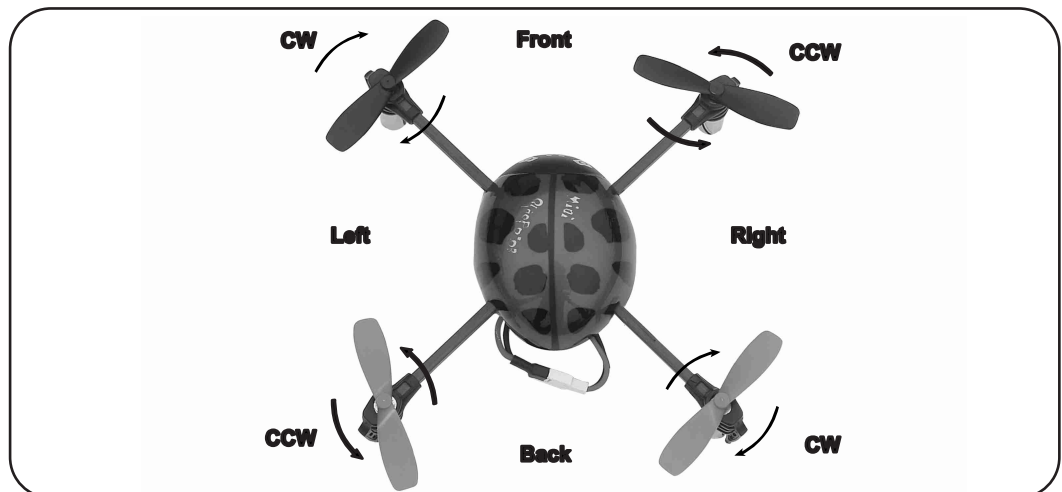


**Step 1: disconnect the power cable of QR Ladybird**

**Step 2: turn off the transmitter.**

**Step 3: Remove the battery pack.**

**1.The front propellers are in black color while the rear propellers are in Orange.**



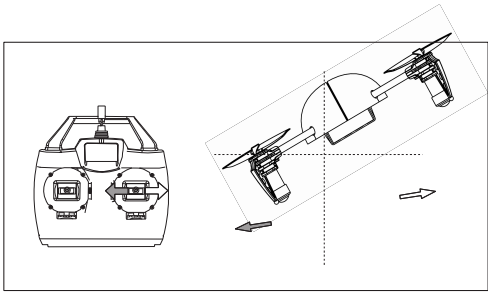
**2. After connecting the power of the QR Ladybird, please check the propellers rotation direction, left front/right front propellers rotate CW, right front/left propellers rotate CCW.**

**3. You can adjust the radio trim button (except the throttle trim) if the quadcopter flight drift.**

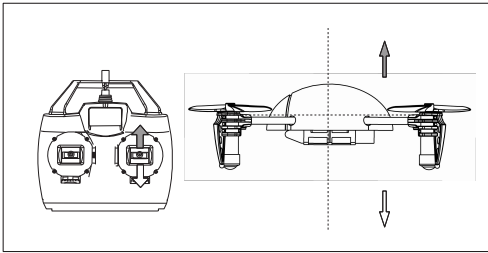
## 10

Additional  
Instruction

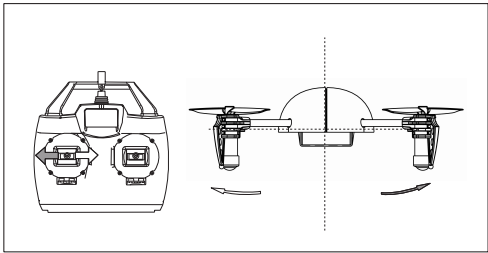
Mode 1 (throttle stick at right hand)



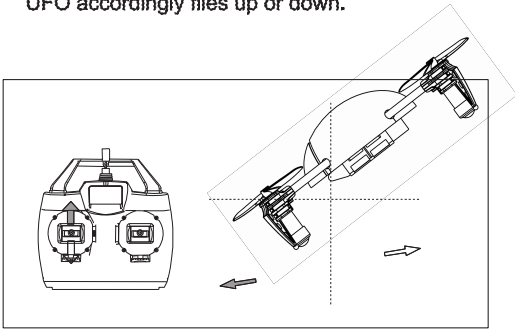
1. When moving the aileron stick left or right, the UFO accordingly flies left or right.



2. When moving the throttle stick up or down, the UFO accordingly flies up or down.

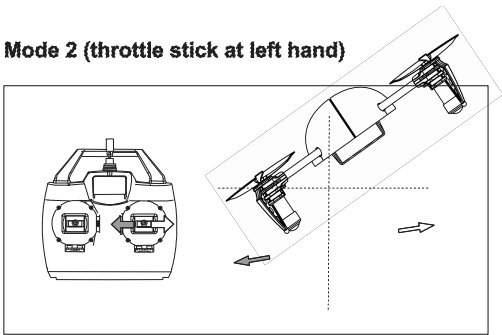


3. When moving the rudder stick left or right, the head of UFO accordingly flies left or right.

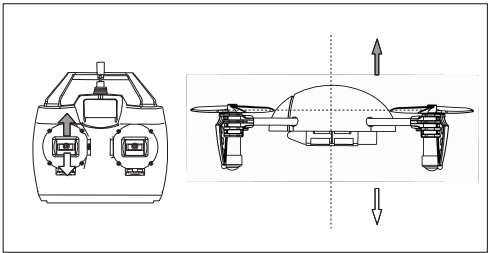


4. When moving the elevator stick up or down, the UFO accordingly flies forward or backward.

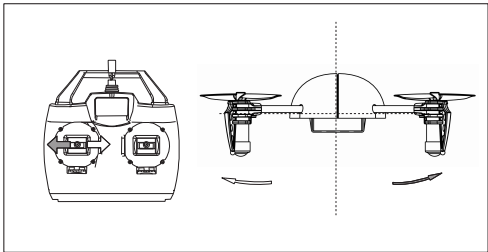
Mode 2 (throttle stick at left hand)



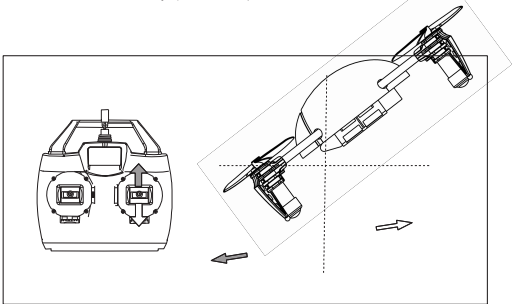
1. When moving the aileron stick left or right, the UFO accordingly flies left or right.



2. When moving the throttle stick up or down, the UFO accordingly flies up or down.



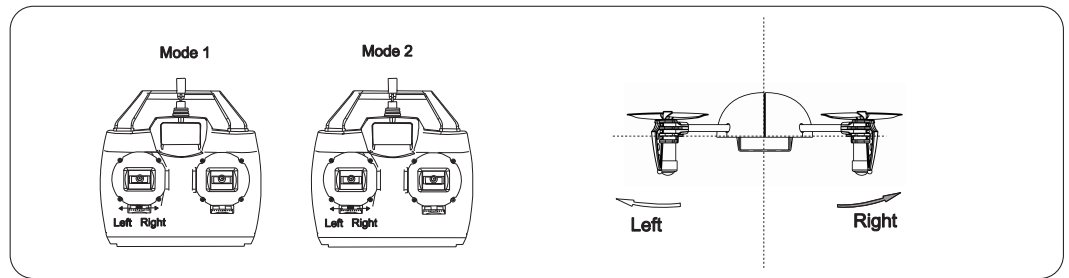
3. When moving the rudder stick left or right, the head of UFO accordingly flies left or right.



4. When moving elevator stick up or down, the UFO accordingly flies forward or backward.

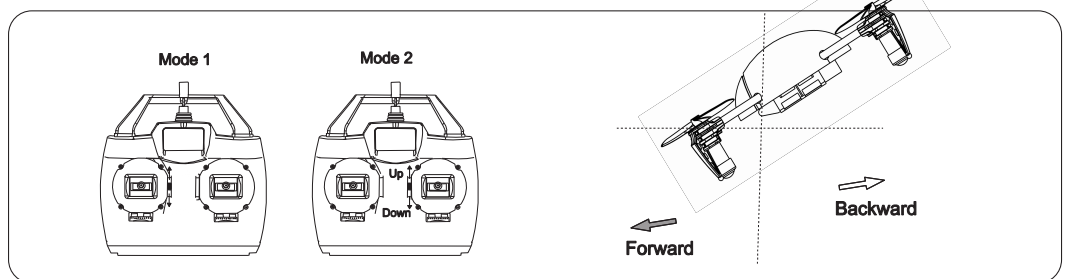
## Appendix 2 – Trimming the flight actions

### 1. Adjust the rudder trim



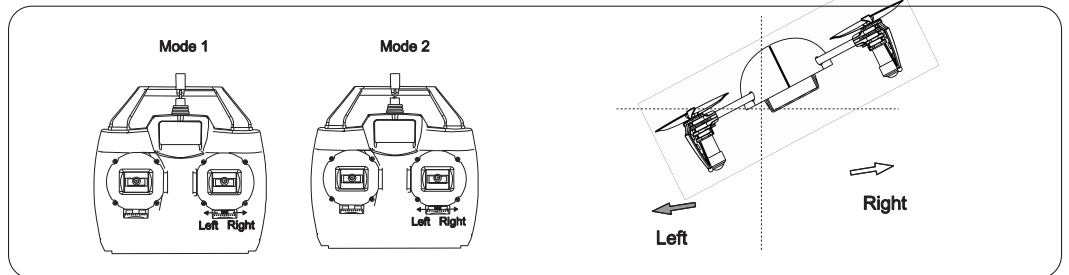
Move the rudder trim left if the head of UFO flies right during take off; otherwise move the rudder trim left.

### 2. Adjust the elevator trim



Move the elevator trim down if the UFO flies down during take off; otherwise move it up.

### 3. Adjust the aileron trim



Move the aileron trim right if the UFO flies left during take off; otherwise move it left.

### 1 Flight practice for the beginner

#### 1.1 Matters needing attention

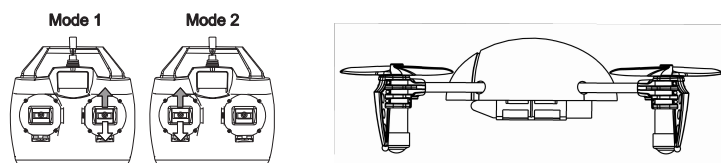
- (1) Beginners should be supervised and guided by skilled pilots when learning.
- (2) For the sake of safety, people should keep at least 5 meters away from the UFO during practice.
- (3) Choose a spacious open ground without people and obstacles as the flight practice field.

#### 1.2 Steps

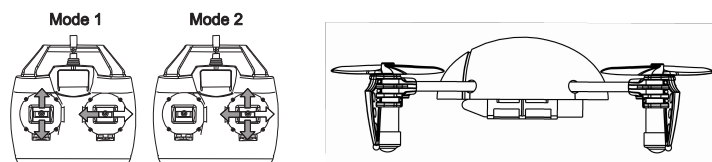
##### (1) Practicing throttle control - stationary flight

Start by standing directly behind the UFO, tail closest to you and head/nose pointing away. Practice taking off from the ground and then by slowly pulling down on the throttle stick, land it softly and horizontally. Repeat this step until the throttle can be finely and carefully controlled.

When hovering, the tail rotor counteracts torque but also pushes UFO to the left. Don't forget to counteract this effect using cyclic stick to the right and take off slightly inclined. It is important to hover vertically, stabilize UFO at 1.5m height and then land it.

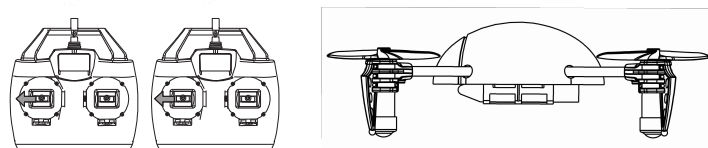


##### (2) Practice of aileron and elevator control



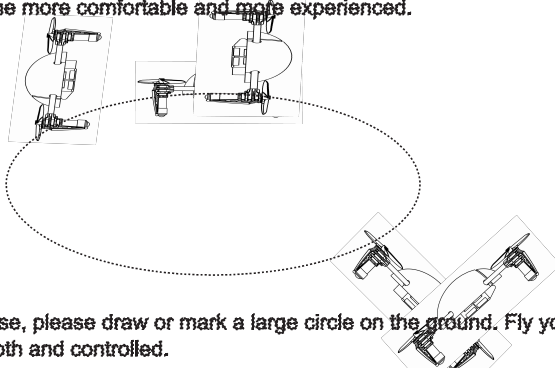
First increase throttle and enter a stable hover as practiced in the previous section. Next, use the elevator and aileron sticks to purposely fly the UFO in a 'cross pattern' forwards, backwards, to the left and to the right. In between each direction, return to hover over the take off point. Continue to repeat this step until it can be completed with ease.

##### (3) Practicing rudder control



Enter a stable hover as practiced in step one, then practice rotating the head of the UFO to face left then back to face right and back to face forwards (away from the pilot). Start with a rotation angle of 30 degrees or less and gradually increase it as you become more comfortable and more experienced.

##### (4) Practicing circular flight



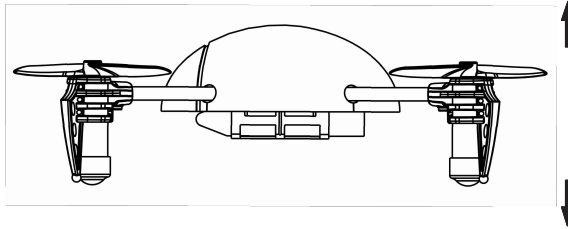
After mastering steps (1) to (3) with ease, please draw or mark a large circle on the ground. Fly your UFO along this circular track until the flight is smooth and controlled.

You may wish to stand inside the circle at first to practice circular flight before needing to control the nose in orientation. Fly circles in both directions and at a constant altitude to be comfortable with this step.

## 2 Advanced practice

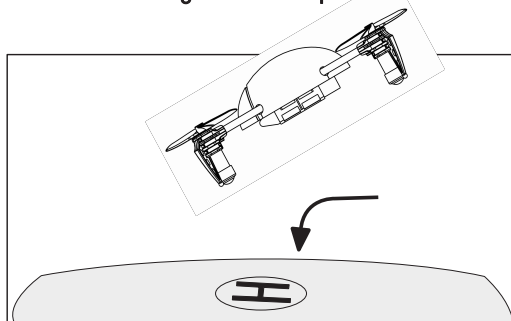
### 2.1 Frog-hopping practice

Repeat the take off and landing action using the throttle stick whilst maintaining a vertical path. Increase your rate of ascent and descent gradually as you become more comfortable with the exercise. Be sure to slow down in time when landing!



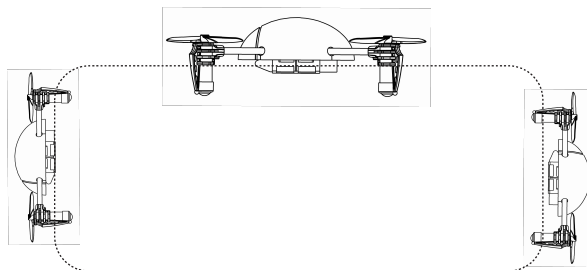
### 2.2 Practicing controlled take off and landing

Mark out an area on the ground as a landing pad to help practice deliberately taking off and landing from a settled location. The process of take off and landing should be kept stable and as close to vertical as possible.



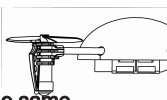
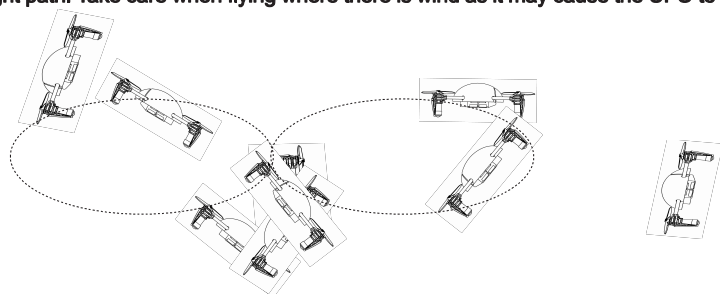
### 2.3 Practicing square flight

Take the take off point as the center to draw a square whose side length is about 2 meters. Fly your UFO along the 4 sides and keep the flight height parallel to the line of sight. Make a 90 degree rotation at each corner of the quadrangle to adjust the flight direction. Train your straight flight skills and 90 degree flight course control. Fly in both directions around the circuit until familiar with the maneuver.



### 2.4 Figure eight practice

Once you have mastered the previous steps you can try flying smooth flat figure eights. Try to maintain the same altitude during the entire flight path. Take care when flying where there is wind as it may cause the UFO to suddenly rise or fall unexpectedly.



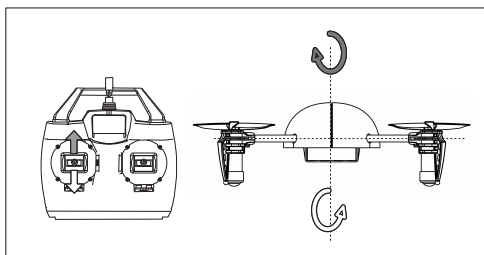
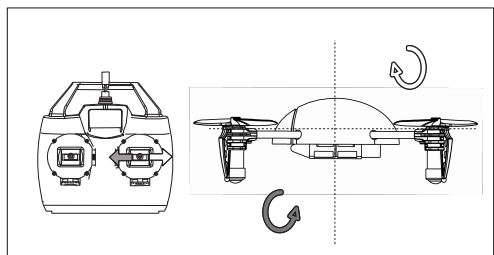
# QR Ladybird

**2.46**

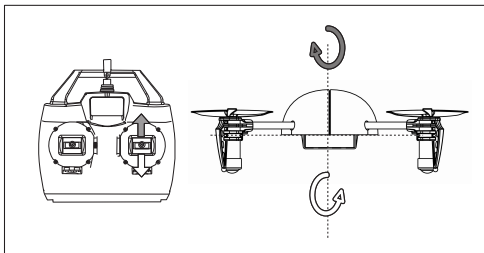
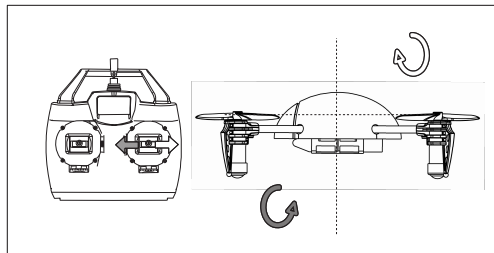
## 2.5 Roll flight practice

[illegible]

### Mode 1 (throttle stick at right hand)



### Mode 2 (throttle stick at left hand)



## Appendix 3 – Flight practice