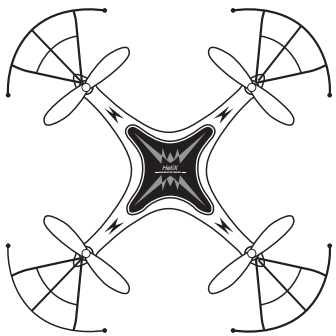


INSTRUCTION MANUAL



NO.Q13
NO.Q13s

1 PREFACE

- Thank you for purchasing our **"HELIX"** Aircraft-Quadcopter series.
- For your safety, please read this instruction manual carefully before using and keep it for future.

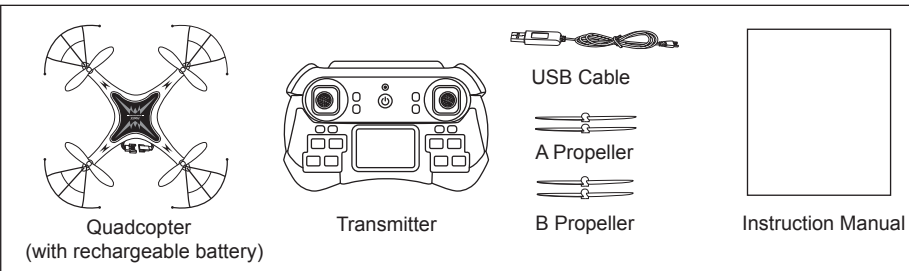
2 SAFETY PRECAUTION

- This product is not applicable for children who are under 14 years old.
- Do not play above someone's head.
- Please keep hands,hair and loose clothing away from the propeller when the power switch is on the "ON" position.
- Do not touch the propellers when operating the Quadcopter.
- Please remove battery from transmitter and dispose of battery correctly when not in use.
- Please keep supervised when charging the Li-polymer battery to prevent accidents caused by overcharging.
- Do not put batteries into fire.
- Do not disassemble the circuit device,otherwise it may cause danger.

3 PRODUCT INTRODUCTION

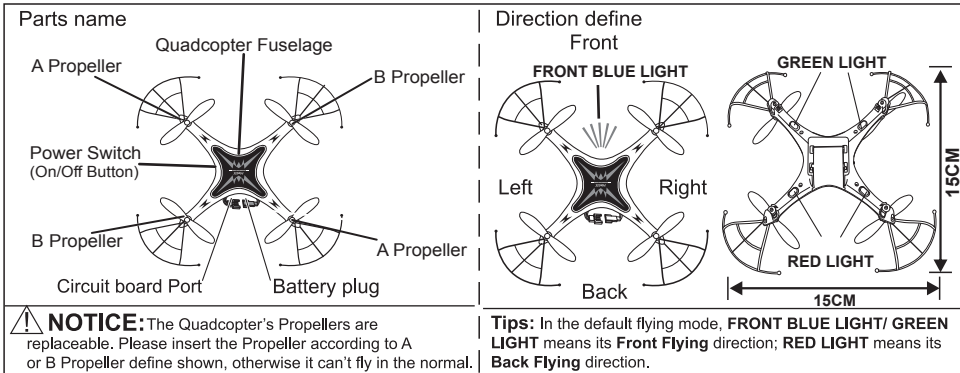
- 2.4 G technology adopted for anti-interference, even more than one quadcopter can fly at the same time, and they will not interfere with each other.
- High performance with rechargeable Li-polymer battery.
- Five highlight colorful LED lights indicate direction in the night and also increase the visual perception of flight.
- Four-axis struction makes the quadcopter more flexible and rapid when flying. It's wind-resistant and it can be flown indoor and outdoor.
- 6-Axis Gyro Quadcopter flight, Strong stability, can easily implement various flight movements, Stronger wind resistance. Easier to control.
- The Quadcopter can fly both indoor and outdoor,including 4CH digital proportional RC system.
- With 360° 3D eversion and throwing flight function.
- Headless (orientation) control & One Button Return & Auto-clockwise Spinning Button makes the Quadcopter more cool.

4 PRODUCT LIST



5 Parts name and direction define

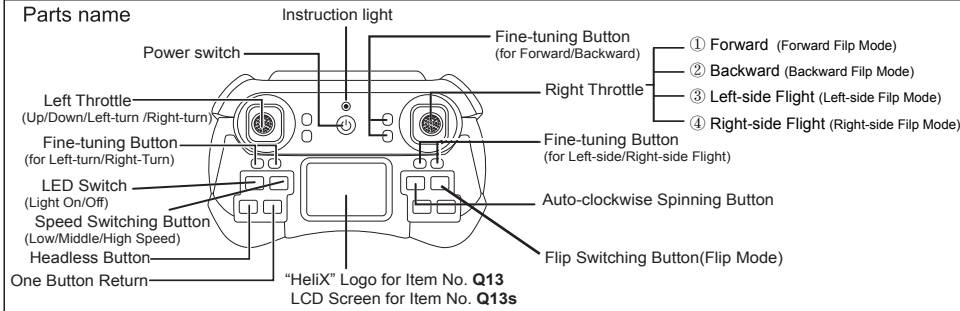
(1) Quadcopter



NOTICE:The Quadcopter's Propellers are replaceable. Please insert the Propeller according to A or B Propeller define shown, otherwise it can't fly in the normal.

Tips: In the default flying mode, **FRONT BLUE LIGHT GREEN LIGHT** means its **Front Flying** direction; **RED LIGHT** means its **Back Flying** direction.

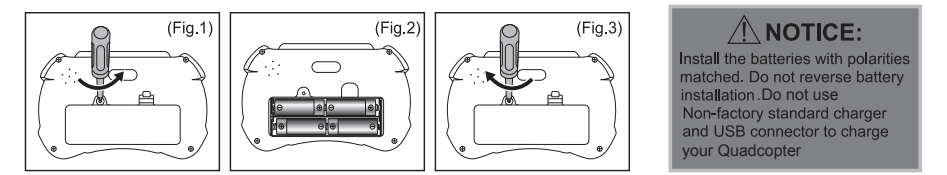
(2) Transmitter



6 Battery Assembly & Charging Instruction

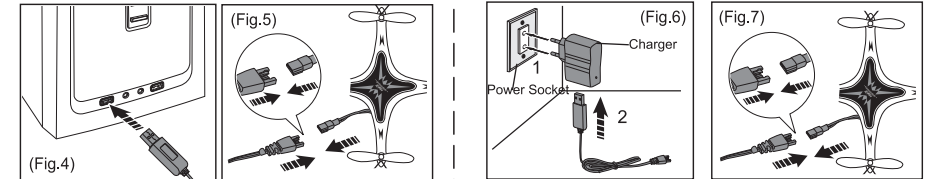
(1) Assembly transmitter battery instruction

Use a philips screwdriver to loosen the screws on the battery cover by the counter-clockwise, open the battery cover(Fig.1). Insert 4X"AA" battery with the correct polarity (Fig.2). Close battery lid and lock screw tightly.(Fig.3)



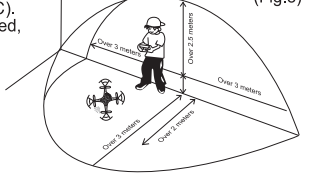
(2)Charge

- ① Please insert the USB line's port into the computer (As Fig. 4) and use another side of USB to connect the Battery Plug (As Fig. 5), and then the light on the USB is Red:When the charging is finished, the light will be off.The Quadcopter can fly about 6 minutes after **charging about 40 minutes**.
- ② Plug the USB charger into the Power Socket and connect the USB port into the charger(As Fig.6), the red indicator of the USB will keep eternal bright.Please use the USB's another side to connect the Battery Plug(As Fig. 7), the light on the USB will be Red.When finished the charging, the light will be off.

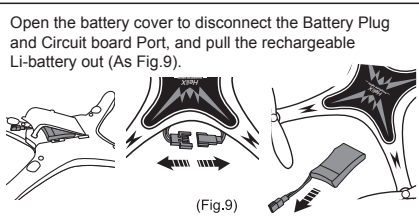


7 To find a place to fly

Do not fly in a rainy (or snowy) day- Do not fly against wind- A place without obstacles. Outdoor (temperature from 0-40°C). Indoor (non air-conditioned, spacious) No glaring light. No less than 5 meters in length, no less than 3 meters in width, and no less than 3 meters in width. (Fig. 5)

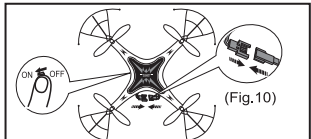


8 Replacing the battery

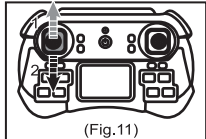


9 Control method

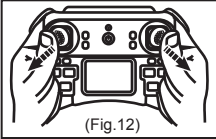
- (1) **Control range:** around 30-50 meters;
- (2) **Flying time:** 5~6 minutes (when the battery is fully charged and flying under the condition of breeze or mild wind);
- (3) **Decoding & Debugging**



Step 1: Switch on the power of the transmitter, the transmitter will send out the sound of "Di". At this time the transmitter LCD indicator will be eternal bright:Connect the battery plug of the Quadcopter and Circuit board Plug (Fig.10) and turn the Quadcopter on the indicator of the Quadcopter will be flashing quickly.



Step 2: Push the Left lever(Throttle) to the top and then pull it down to the bottom (Fig.11), the transmitter will send out sounds of "Di" again, while the indicator of the Quadcopter will turn from slow-flashing to eternal bright.



Step 3: Push the Right Throttle to the bottom left corner and Right Throttle to the lowest right corner (Fig. 12), the Quadcopter's lights become fast flashing. It indicates the Quadcopter's fine-tuning is well debugged.

(4) **Fine-Tuning:** Actually this product is already well trimmed before the product left the factory. It is only for your kindly reference in case the parameter is changed.

When the Quadcopter keeps moving Forward, please press the Backward Fine-tuning until it won't move Forward automatically.				
When the Quadcopter keeps move Backward, please press the Forward Fine-tuning until it won't move Backward automatically.				
When the Quadcopter keeps moving Leftward, please press the Right Fine-tuning until it won't move Leftward automatically.				
When the Quadcopter keeps moving Rightward, please press the Left Fine-tuning until it won't move Rightward automatically.				
When the Quadcopter keeps moving Left-Turn, please press the Right-Turn Fine-tuning until it won't move Left-Turn automatically.				
When the Quadcopter keeps moving Right-Turn, please press the Left-Turn Fine-tuning until it won't move Right-Turn automatically.				

(5) In the normal, you can fly the quadcopter according to the its default Flying direction that's Green Lights indicate the Flying Front-side and Red Lights indicate the Flying Back-side; Meantimes, the LCD screen of the transmitter will show **Mode 1**.

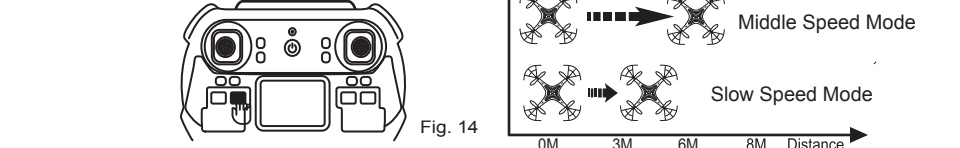
Here's the **Flying tips** for your reference:

Ascend		When you push up the left lever(Throttle stick), the spinning speed of the main rotor blade increases and the Quadcopter begins to ascend.
Descend		When you pull down left lever (Throttle stick), the spinning speed of the main rotor blade decreases and the Quadcopter begins to descend.
Left/Right turn		When push the left control lever (accelerator) to the left or to the right, the nose of the Quadcopter will turn to the left or to the right.
Left/Right-side Flight		When push the right control lever (turning rudder) to the left or to the right, the fuselage will tilt to the left or to the right, this time the saucer will make left/right side-flying.
Forward		When you push up the right control lever(rudder), the nose inclines down, the Quadcopter is moving forward.
Backward		When you push down the right control lever(rudder), the nose inclines up, the Quadcopter is moving backward.

(5) In the default flying mode, the Quadcopter is normally with LED on. You can have a better option to control the LED when the Quadcopter is flying in the sky. It seems more cool to have a new better flying experience. Just press the LED Switch as Fig. 13 to turn all the LEDs off. Press it again to turn LED on.



(6) The default flying mode is **Slow Speed**, this mode is suitable for playing indoor or for the junior player who is not so familiar with remote control flying. When you need to fly outdoor, please select the speed mode according to your individual condition. Just press the **Speed Switching Button** as Fig. 13 shown; When you press the speed switching button and the transmitter sounds "Di", it means the Quadcopter is into **Slow Speed Mode**. When you press it and the transmitter sounds "Di, Di", it means the Quadcopter is into **Middle Speed Mode**. When you press it and the transmitter sounds "Di, Di, Di", it means the Quadcopter is into **High Speed Mode**.



(7) Press the **Auto-clockwise Spinning Button**, the quadcopter will be into high-speed auto-clockwise spinning. When you press it again, it will cancel the auto spinning and come to normal.(Pls refer the Fig 15 shown).



(8) Press the **Flip switching Button** to go into the Flip Mode. Please turn the throttle to control one of the flip direction. Details as follows.

	Left Flip Mode Turn the Throttle to Left, the Quadcopter make 360 degree tumbling action to the left in anti-clockwise direction.
	Right Flip Mode Turn the Throttle to right, the Quadcopter make 360 degree tumbling action to the right in clockwise direction.
	Forward Flip Mode Turn the Throttle to forward the Quadcopter make 360 degree tumbling action to the forward in clockwise direction.
	Backward Flip Mode Turn the Throttle to backward, the Quadcopter make 360 degree tumbling action to the backward in clockwise direction.

(9) Headless (Orientation) Control Mode

When the quadcopter is flying too high, you don't know how to find the quadcopter's default flying direction.Don't worry. Our quadcopter has built-in the headless mode. All you need to do is just to follow below steps:

- ① Put the quadcopter in the flat floor and make sure the quadcopter is connected, And then put the **Quadcopter's Front Side** same as your **Standing Front Side**.



② Push the **Left Throttle** to the lowest Left corner and **Right Throttle** to the lowest Right corner(see Fig 16 shown) for 5-6 seconds, the Quadcopter's lights become fast flashing and it indicates that we set up the **Headless Flying Front-side** same as your **Current Standing Front Side**.

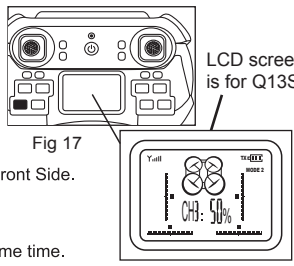
③ Press the "HEADLESS" button (Fig 17), the Quadcopter is immediately into "Headless" Mode. The quadcopter has identified Headless Flying Front-side same as your Standing Front Side.

Here's the "Headless" Signals:

Signal 1: You will hear continuous **"Di Di..."** from the transmitter

Signal 2: You will see all the Quadcopter's lights is with the **rhythmic slow flash** at the same time.

Signal 3: You will see the LCD screen shows out the words **"MODE 2"**.



NOTICE:Once set up the Headless Flying Front-side same as your current Standing Front side, please don't change your position. If changed, please stop flying and follow up the **HEADLESS** steps above to reset up the Headless Flying Front side.

NOTICE:If the Quadcopter under the Headless Mode is out of battery, all the Leds will become from the rhythmic slow flash to quick flash.

10 Notice

- (1). When there is insufficient power with the transmitter, the transmitter will send out reminding sound of "di, di".
- (2). If the battery power of the Quadcopter goes low, the Quadcopter could not fly to a high position or even fly.
- (3). Repair immediately when the Quadcopter is damaged or out of shape.(If the rotor is seriously broken, do not fly the product, or else it may cause some accident.)
- (4). When the quadcopter has run out of electricity or being placed for 3 months, please timely charge it for 20 minutes and then unplug it and keep it well.

11 Maintenance

- (1). Wipe the Quadcopter gently with clean damp cloth.
- (2). Do not insulation on sun and calefaction
- (3). Do not submerge the Quadcopter into the water.
- (4). Turn of the power of the remote and the Quadcopter when not in use.
- (5). Remove battery from the remote when not used for a long time.
- (6). New 1.5V "AA" alkaline batteries, for the transmitter to obtain best and maximum performance.
- (7). Check the Quadcopter regularly to make sure it's in good shape.

12 Trouble manage

TROUBLE	CAUSE	SOLUTION
(1). Propeller can't move (2). Suddenly stop and drop down when flying	(1). ON/OFF switch is OFF (2). Run out of power	(1). Turn the power on. (2). Recharge the Quadcopter or change the transmitter's batteries.
(1). No response from the Quadcopter (2). The Quadcopter can't be hovering normally	(1). The quadcopter fails to be decoded. (2). The band of the transmitter doesn't correspond to the decoding of the Quadcopter	Adjust the band on the transmitter and keep it the same as the Quadcopter.Please make decoding once again by the following Step (3) or (4) Control method mentioned in the Instruction Manual.

13 FCC COMPLIANCE INFORMATION STATEMENT (U.S)

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: 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 reasonable 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 a circuit different from that to which the receiver is connected.
Consult the dealer or an experienced radio/TV technician for help.

The device must not be co-located or operating in conjunction with any other antenna or transmitter.