

## 1.6 User Manual

### 2.4GHz Radio Controlled Ready-To-Fly Quadcopter

● ITEM NO.: KB401

INSTRUCTION MANUAL

**WARNING:** This product is not intended for users under 14 years of age, unless closely supervised by adults.



- Ready-To-Fly Quadcopter
- Featured Flight System
- 2.4GHz Full Function Radio Controller
- Powerful Li-po Battery Pack For Maximum Flight Time
- Integrated Bright And Colorful LEDs



#### ⇒ TECHNICAL DATA:

BLADE CIRCLE	OVERALL WIDTH	OVERALL HEIGHT	Rotor Dia.	MOTORS	BATTERY	CHARGING TIME
380mm	310mm	50mm	142mm	Φ 8.5*4	Li-Po 3.7V /650mAh	Up to 15 min.

*Note: This data is subject to change without notification in advance.*

#### ⇒ PACKAGING INCLUDING:

- Quadcopter(RTF) 1pcs     ● 2.4GHz Radio Controller 1pcs     ● USB Connector 1pcs
- Instruction Manual 1pcs     ● Extra Main Blades (1 set)     ● Protective Blade Braces (1 set)

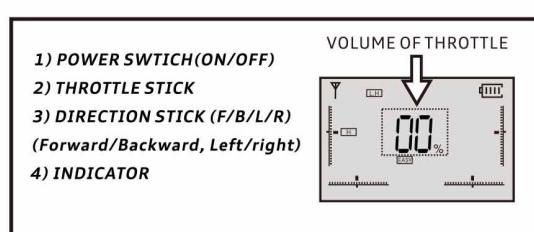
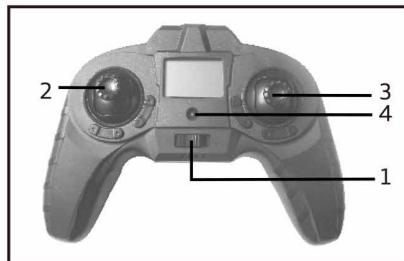
### **GENERAL INFORMATION & SAFETY CAUTIONS:**

1. This quadcopter is not a toy but a hobby grade product. It is not suitable for users under 14 years old unless they are supervised by adults.
2. Do NOT attempt to re-assemble the electronic parts. These have been carefully calibrated at factory.
3. Take care not to cut yourself while using tools to adjust your quadcopter.
4. This quadcopter contains many small parts. Keep out of reach of children while adjusting , assembling, and/or disassembling your quadcopter.
5. Always store your quadcopter in a safe place.
6. Do NOT use the damaged plug, battery and wires.
7. Use ONLY the original parts from the factory.
8. Disconnect power before maintaining your quadcopter.
9. Do NOT attempt to fly your quadcopter by low battery power.
10. Do Not fly your quadcopter chasing the pets or flying birds.
11. Do NOT fly your quadcopter bumping against anyone else.
12. Dispose of exhausted or damaged part in recycling dustbin.
13. An open flying area is needed when you fly your quadcopter.
14. Repair or repair damaged/distorted parts if necessary before flying your quadcopter.  
Failure to do so will result in injury to yourself, others or damage to property around you.
15. To avoid battery leakage, always disconnect or remove batteries from your radio controller and quadcopter when not in use.
16. Do NOT perform a severe clash from a high place and/or collision.
17. Keep the packaging handy for further reference.

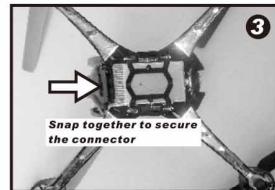
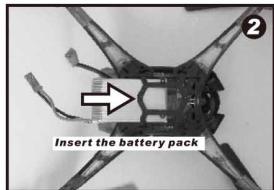
### **⇒ TO FLY YOUR QUADCOPTER**

Your quadcopter is equipped with the full function LCD 2.4GHz radio controller below, which has two modes (EASY MODE and PROFESSIONAL MODE.)

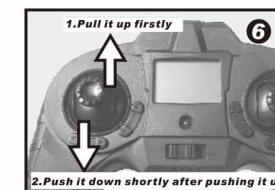
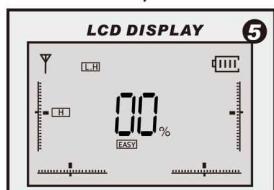
Familiarize yourself with the radio controller is required before attempt to operate your quadcopter.  
Please read and understand all instructions and illustrations before use.



- 1** *Install three AA size batteries into your radio controller. (See Figure 1.)*  
*Note: The battery compartment is located on the back of the radio controller.*
- 2** *Install the battery pack (provided in the box) to your quadcopter, connect the battery pack with your quadcopter, and secure the connector as shown in Figure 2 & 3. LEDs on quadcopter start flashing sharply.*



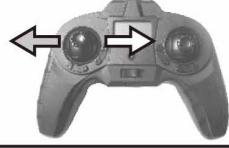
- 3** *Place the quadcopter on a flat plane, and wait until LEDs start slow flashing (See Figure 4.), Which allows for the automatic detection of the system. Only when LEDs start slow flashing can the operator carry through the binding operation.*
- 4** *LCD lights up and the indicator on the radio controller flashes sharply immediately you switch on the radio controller. (See Figure 5.) Flip the throttle stick by pushing it down immediately just after pushing it up to bind the radio controller with the quadcopter, and the indicator on the radio controller is bright on. (See Figure 6.)*  
*Note: Binding operation needs to be performed at a second time provided that no operation will be fulfilled in 30 min.*

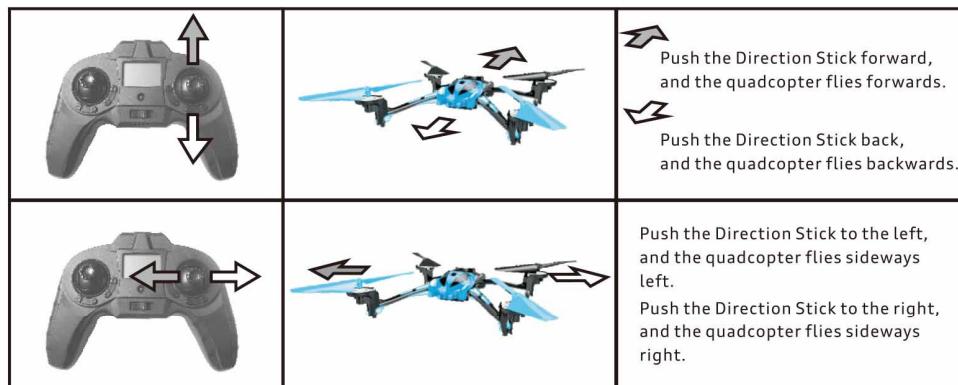


*LEDs on your quadcopter become bright on once the binding operation is completed, which means It is time to fly your quadcopter. This quadcopter is approved for both indoor and outdoor flight. The recommended minimum area for indoor flight is 10x 10 feet (3x3 meter), with a ceiling height of 9 feet (3 meters) or more.*

*Gently push the Throttle Stick forward until the quadcopter begins to lift off. Reduce throttle to maintain a hover when the model is at least 3 feet (1 meter) off the ground. This height will keep the quadcopter away from ground turbulence for more stable and controllable flying.*

*Familiarize yourself with all the instructions and the illustrations below:*

		<p>The quadcopter ascends as long as you push the Throttle Stick forward.      The quadcopter descends as long as you push the Throttle Stick back.</p>
		<p>Push the Throttle Stick to the left, and the quadcopter rotates left.      Push the Throttle Stick to the right, and the quadcopter rotates right.</p>



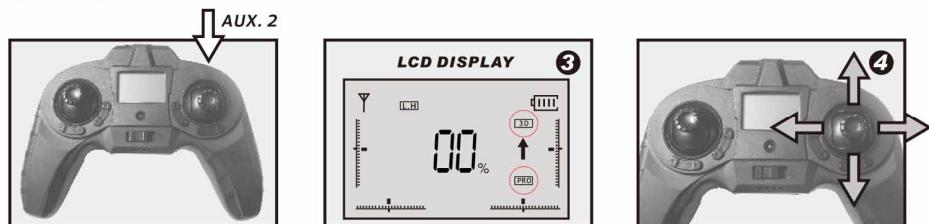
### **ENABLING YOUR QUADCOPTER TO FLIP OVER**

After you become familiarized with normal flying, it is time for you to perform the flying stunt on your quadcopter. Follow the instructions and illustrations below to enable your quadcopter to flip over.

When your quadcopter flies on a reliable altitude, press the AUX. 1 button at one time ( See Figure 1.), and the system enters the professional programming with the figures (PRO.) Emerging on the LCD. ( See Figure 2.)



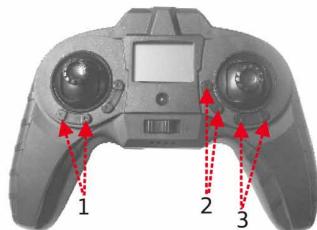
Press AUX.2 button at one time (See Figure 3), and there goes five sounds of (DI) to the radio controller with the figures (3D) and the arrow emerging on the LCD. ( See Figure 4.). You can enable your quadcopter to flip over by flipping the Direction Stick. (See Figure 5) .. The quadcopter will perform the front, back, left and right flips in response to directions of movements of the Direction Stick.



**Tips:**

- 1) The 3D (FLIPOVER) programming will become inactive when the figures (3D) disappear from the LCD and there comes no sound of DI to your radio controller. To active it you need to press AUX. 2 at a second time.
- 2) 3D (FLIPOVER) operation only happens in PROFESSIONAL PROGRAMMING MODE (PRO.)
- 3) Exchange between EASY MODE and PROFESSIONAL MODE by pressing the AUX.1 button.

### **TRIMS ADJUSTMENT ON THE RADIO CONTROLLER**



- 1) RUDDER TRIMS
- 2) FORWARD/BACKWARD TRIMS
- 3) LEFT/RIGHT TRIMS

If your quadcopter pulls or drifts in any direction (unrelated to air currents) when the sticks are at neutral, you can use the trim controls to tune out any unwanted flight motions.

- The trim buttons will adjust each control in a small increment with each click. Press the trim buttons as many times as is required until the model holds a steady hover with little or no correction required.

- As you adjust each trim, the LCD on the radio controller will show you the illustration, and in each press upon the trim you will hear one sound of DI, which means it increases or decreases...

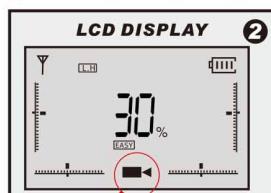
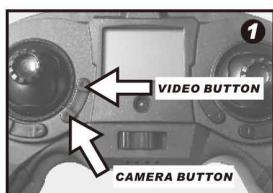
### **APPLYING THE CAMERA**

This quadcopter can enable you to install the camera with the SD card , which is not provided in the package and needs you to purchase individually. After the camera is installed to your quadcopter, you can take photos and videos.

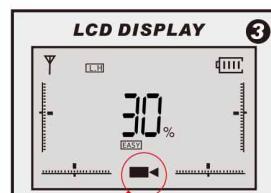
During flying press the Video Button once (See Figure.1), and the icon of the video/camera appears on the LCD of the radio controller, and in the meantime you will hear two sounds of DI from the radio controller, which indicates that it processes a video. ( See Figure.2). To stop taking video you are required to press the Video Button again, and you will obtain one sound of DI from the radion controller, and the icon of the video/camera disappears from the LCD of the radio controller.

You can press the Camera Button(See Figure.1) to take photos. Each time pressing upon the Camera Button enables you to take one photo, and the icon of the video/camera will display with a sound of DI from the radio controller.

Note: The Camera Button can only be applied after you stop taking videos.



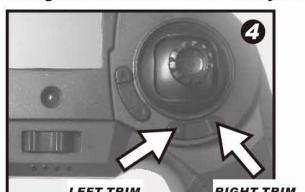
Being ON: Taking Video  
Being OFF: Stopping taking video



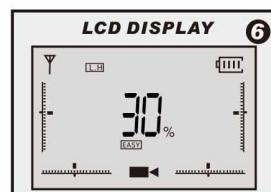
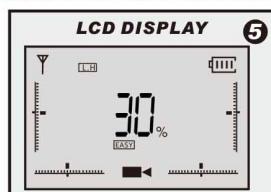
It emerges immediately you press the Camera Button once.

You can press both LEFT and RIGHT Trims all together at one time (See Figure 4.) , and the icon of the video /camera emerges (See Figure 5.) , which mean it is taking videos. To stop taking video you must press both LEFT and RIGHT Trims all together at one time once more. (See Figure 6.).

When switching on the Video/Camera function you will hear two sounds of Di from the radio controller, and there goes one sound of Di when you switch off the Video/Camera function.



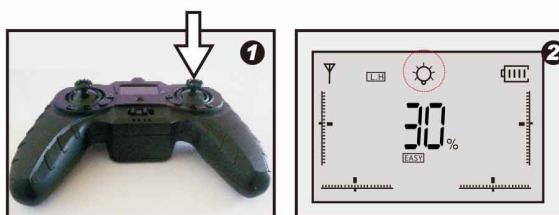
Press Left and Right Trims all together at one time



### **SWITCHING ON/OFF THE LEDS ON QUADCOPTER**

Press the DIRECTION STICK to switch on or switch off the LEDs on the quadcopter as shown in Figure 1.  
When LEDs are on, there is the icon of the bulb appearing on the LCD of the radio controller. (See Figure 2.)

- 1) Press the DIRECTION STICK inwards to switch off the LEDs and there goes one sound of DI from the radio controller with the icon of the bulb disappearing from the LCD.
- 2) Press the DIRECTION STICK inwards to switch on the LEDs and there goes one sound of DI from the radio controller with the icon of the bulb emerging on the LCD.

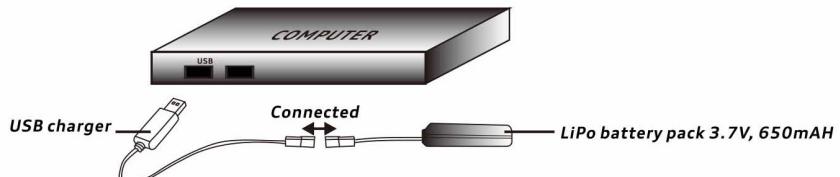


**NOTE:** In the event that the quadcopter is flying by low battery power, it is not possible to switch off the LEDs by pressing the DIRECTION STICK. Under this circumstance LEDs become flashing from time to time. When it happens, it is time to fly back the quadcopter and charge the battery pack within 1 minute..

### **HOW TO CHARGE THE FLIGHT BATTERY?**

Remove the battery pack from the quadcopter, and connect it with the USB charger, which is provided in the package. Plug the USB charger into a USB slot on the computer as shown in the picture below.

Charging time is approximately 2 hours.



### **INSTALLING THE PROTECTIVE BLADE BRACES**

To protect the blades of the propellers you can install the protective blade braces, which are provided in the package.

Put the quadcopter upside down and install the protective blade brace to one side as shown in the Figure 2.

Make sure that the blade brace snaps together with your quadcopter and then fix the brace with the two screws (provided in the package) as shown in the Figure 3.



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.

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

**MAINTENANCE**

- After each flight and immediately after any crash, inspect your quadcopter for worn or damaged parts and fix them if possible.
- When not in use, store your quadcopter in its original packaging with the batteries removed from both the radio controller and the quadcopter.
- If you do not plan to fly your quadcopter for a long period of time, store the battery approximately 40%-50% charged to maintain battery performance and life. To achieve a 40-50% charge, fly the quadcopter until the battery pack requires recharging. Charge the battery for half the normal charging time.

**WARNING**

An RC quadcopter is not a toy! If misused, it can cause serious bodily harm and damage to property. Fly only indoors, in open areas following all instructions and as recommended in this manual. Keep loose items that can get entangled in the rotor blades away from the main blades, including loose clothing, or other objects such as pencils and screwdrivers. Especially keep your hands away from the rotor blades.

**Note on Lithium Polymer Batteries**

Lithium Polymer batteries are significantly more volatile than alkaline or Ni-Cd/Ni-MH batteries used in RC applications. All manufacturer's instructions and warnings must be followed closely. Mishandling of Li-Po batteries can result in fire. Always follow the manufacturer's instructions when disposing of Lithium Polymer batteries.

- You must charge Li-Po battery pack in a safe area away from flammable materials.
- Never charge the battery unattended. When charging the battery you should always remain in constant observation to monitor the charging process and react to potential problems that may occur.
- After flight, the Li-Po batteries must be cooled to the ambient temperature before charging.
- If at any time during the charge or discharge process the battery begins to balloon or swell, discontinue charging or discharging immediately. Quickly and safely disconnect the battery, then place it in a safe, open area away from flammable materials to observe it for at least 15 minutes. Continuing to charge or discharge a battery that has begun to balloon or swell can result in a fire. A battery that has ballooned or swollen even a small amount must be removed from service completely. **DO NOT STORE OR ATTEMPT TO CHARGE A SWOLLEN OR DAMAGED BATTERY PACK!**
- Store the battery at room temperature in a dry area for best results.
- When transporting or temporarily storing the battery, the temperature range should be from 40-120 degrees Fahrenheit. Do not store the battery or model in a car or direct sunlight whenever possible. If stored in a hot car, the battery can be damaged or even catch fire.
- Do not over-discharge the Li-Po flight battery.