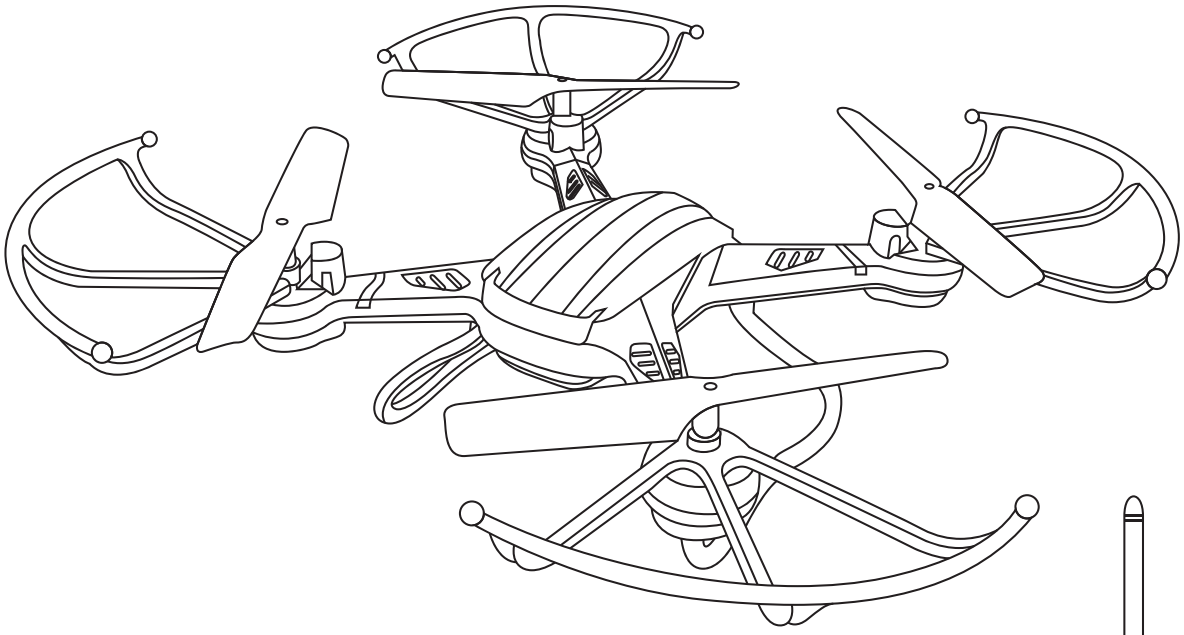
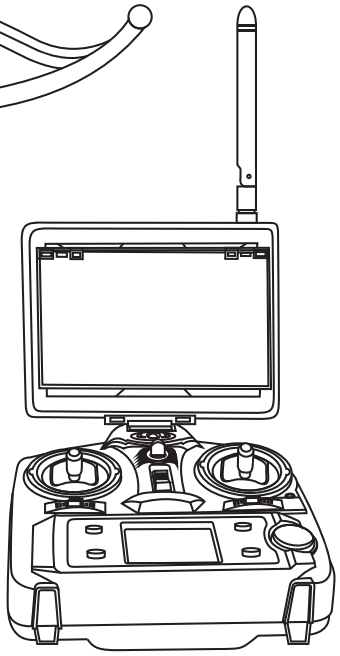
GT-4160

RCTECH

720p HD FPV
4 Channel RC

Quadcopter

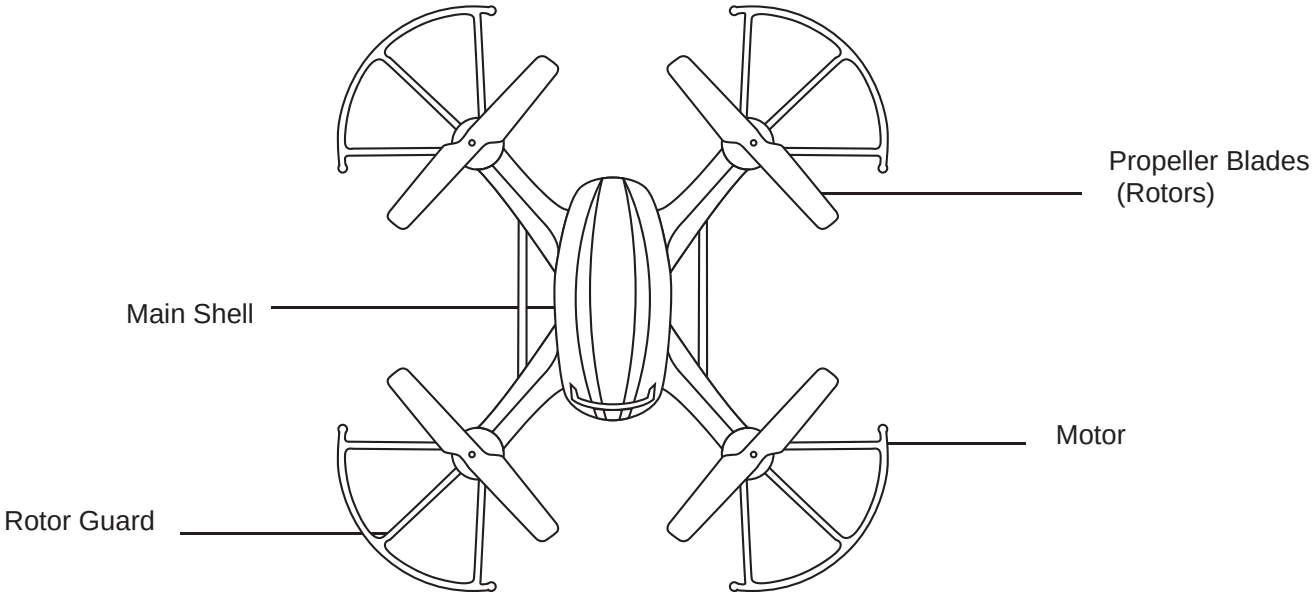




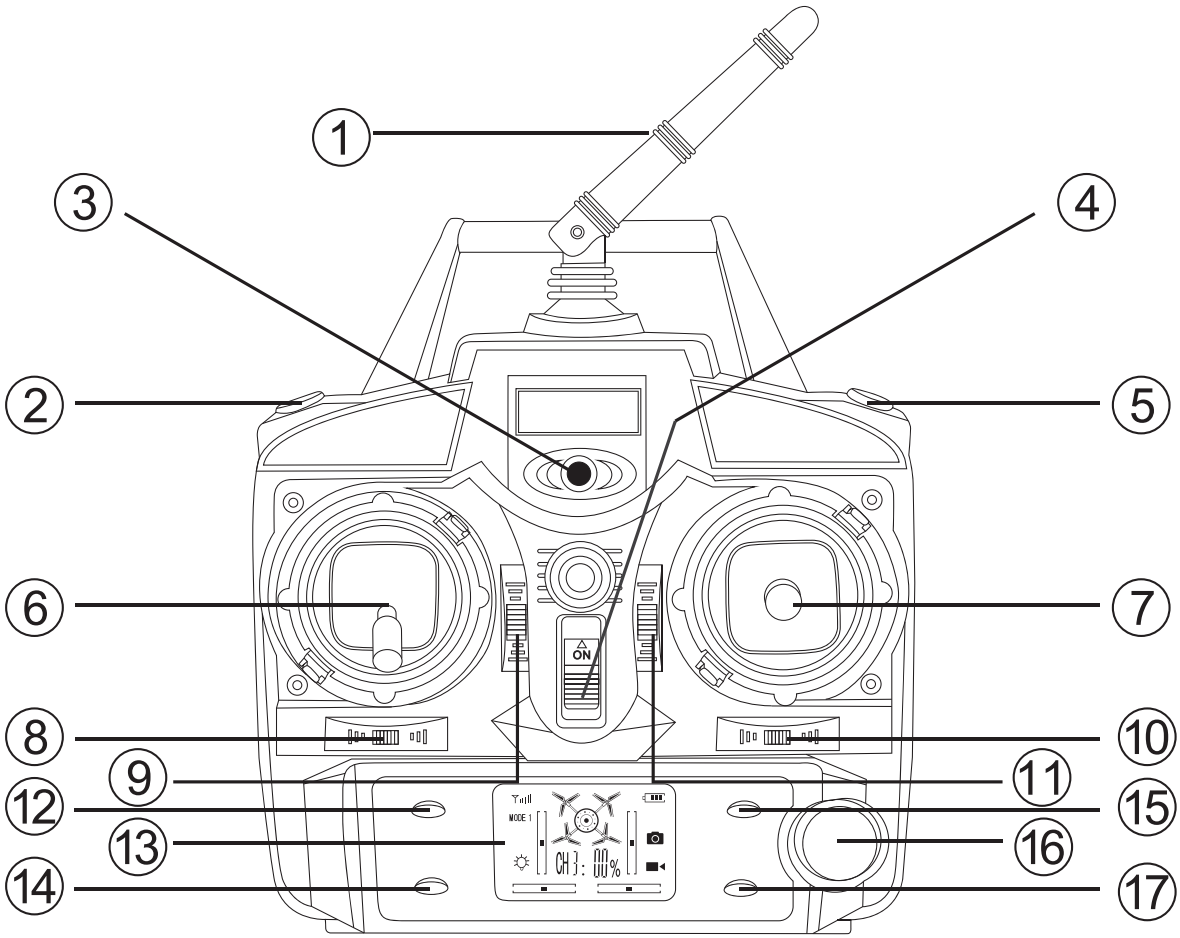
HAWKEYE

Contents

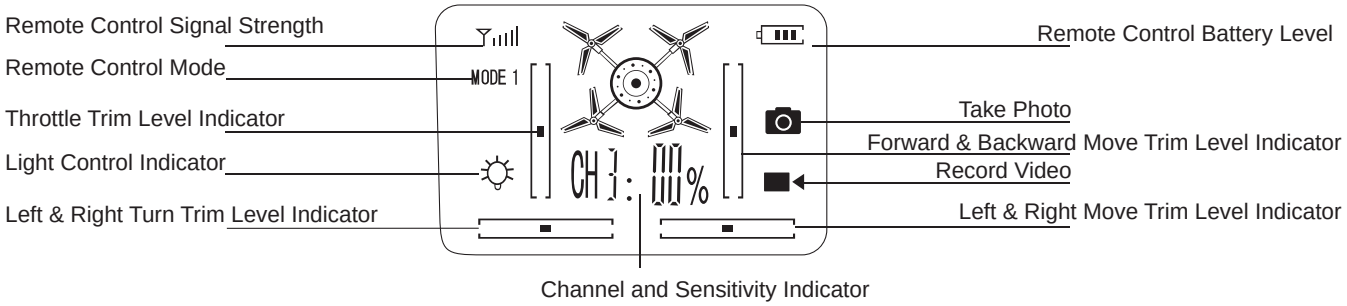
1. QUADCOPTER OVERVIEW



2. REMOTE CONTROL OVERVIEW



1	Antenna	Transmission
2	Light Control	Turn ON/OFF LED Lights on quadcopter
3	Power LED	Indicates ON/OFF
4	Power Switch	Turn ON/OFF the remote control
5	Flip Button	Perform 360° flip
6	Throttle Stick / Left & Right Turn Stick	Ascend & descend / Turn left & right
7	Direction Control Stick	Move forward, backward, left & right
8	Left & Right Turn Trim	Adjust a deviation to the left or right
9	Throttle Trim	Adjust throttle power
10	Left & Right Move Trim	Adjust a lean to the left or right
11	Forward & Backward Trim	Adjust a tilt to the front or back
12	Video Button	Record Video
13	LCD Display	Displays Information
14	Mode Switch	Switch between Mode 1 and Mode 2
15	Photo Button	Take photo
16	Sensitivity Switch	Adjust flight control sensitivity
17	Headless Mode	Turn ON/OFF Headless Mode



3. HEADLESS MODE EXPLAINED

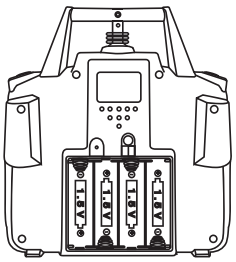
Headless Mode allows the quadcopter to operate in such a way so that the orientation remains in its initial state, no matter which way the quadcopter is facing at the time. For example, if the quadcopter lifted off facing the front (facing away from you) and then turned 90° to the left, when entering Headless mode, the quadcopter is going to assume its now right side as the front, so if you push forward, the quadcopter is going to move forward (facing away from you), rather than to the left.

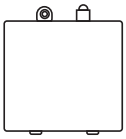
Headless mode makes it easy for beginners to control the quadcopter when it is difficult to establish the orientation, and it is an easy way for you to retract the quadcopter, simply push backward, and the quadcopter will fly towards you.

Place the quadcopter 2 metres in front of you with the nose facing away from you, after lift off, long press the Headless Mode button for over 2 seconds to enter Headless Mode. Long press the Headless Mode Button for over 2 seconds to exit Headless Mode.

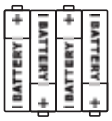
4. REMOTE CONTROL BATTERY AND PAIRING

Slide open the battery cover on the back of the remote control. Insert 4 x AA sized batteries in the polarity as shown on the inside of the battery compartment. Batteries of different type are not to be mixed.





Battery Cover



4 x AA Batteries (Not Supplied)

To pair the remote control with your quadcopter. First switch on the power of your quadcopter, the LED indicators would now start flashing. Then make sure the throttle stick is pushed to the lowerst position, now turn on the remote control's power switch. Push the throttle stick to the highest and then to the lowest again. There will be a beep sound and the quadcopter's LED indicator stops flashing and remains steady. The paring is now complete and ready to fly.

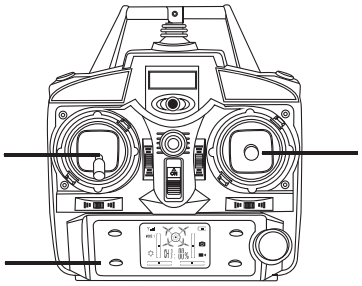
5. REMOTE CONTROL MODES SWITCHOVER

This quadcopter remote control allow you to switch between different modes and customise the function of the control sticks.

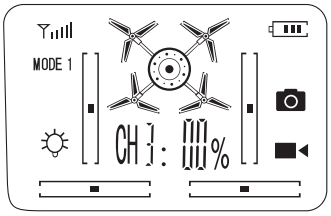
By default the remote control will be in Mode 1 with the following functions:

Throttle Stick
/ Left & Right
Turn (Rotate)

Mode Switch Button



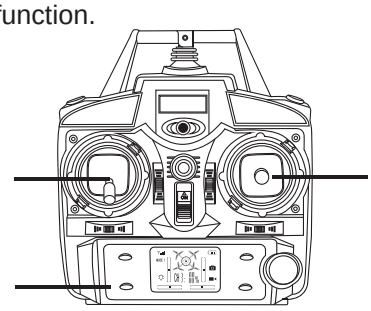
Direction Control Stick
Forward & Backward Move
Left & Right Move



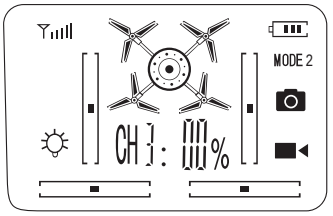
By pressing the Mode Switch Button, the remote control goes into mode 2, the Left & Right Turn function is switched with the Left & Move function.

Throttle Stick
/ Left & Right
Move

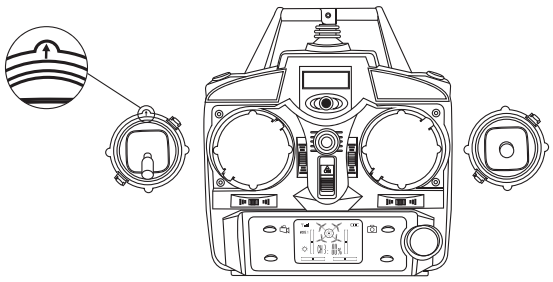
Mode Switch Button

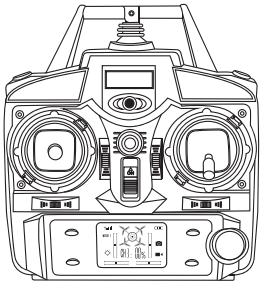


Direction Control Stick
Forward & Backward Move
Left & Right Turn (Rotate)



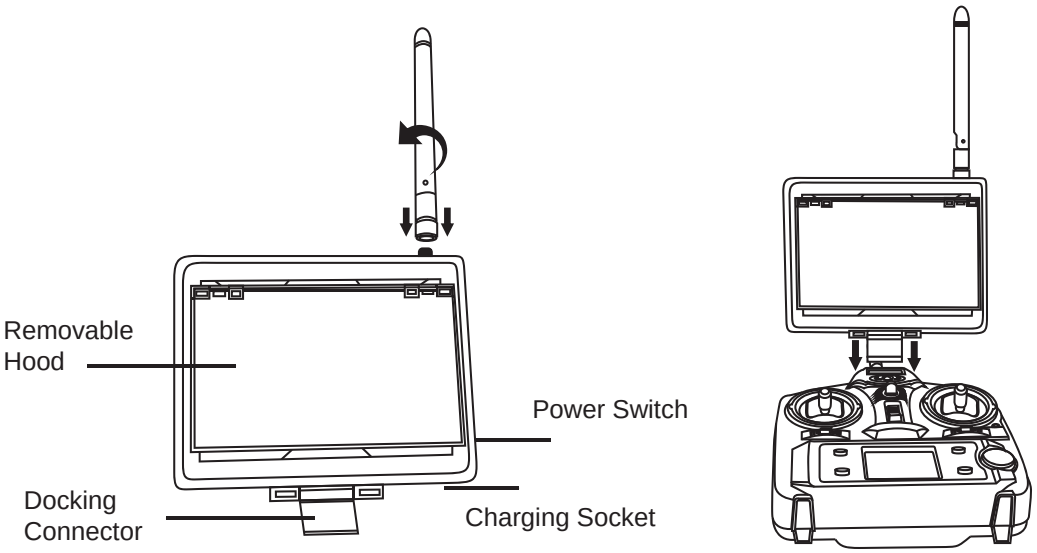
You can even swap the side of Throttle Stick (non-return to center) with the Direction Control Stick (return to center). First switch off the remote control, then simply press the 2 clips holding the sticks in place and lift them out of the socket and swap side. You can still switch between mode 1 and mode 2 after you have swapped the physical sticks.



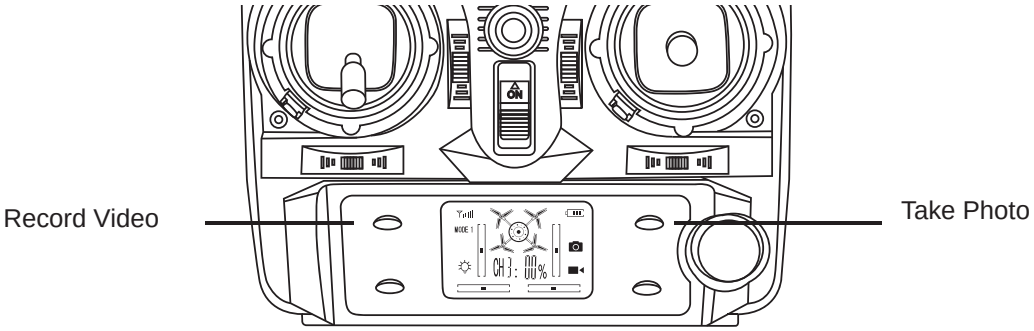


6. FPV SCREEN

This quadcopter is equipped with a 720P HD camera and transmits live images to the 14.33cm FPV screen via 5.8GHz. To use the FPV screen, please first charge the FPV screen using the supplied USB Charger. Once fully charged (the red light on the charger turns on, charging time about 100 minutes), attach the antenna on the top right hand corner. You can choose to dock the FPV screen on the remote control, there is however no hard wiring so you can use the screen anywhere.

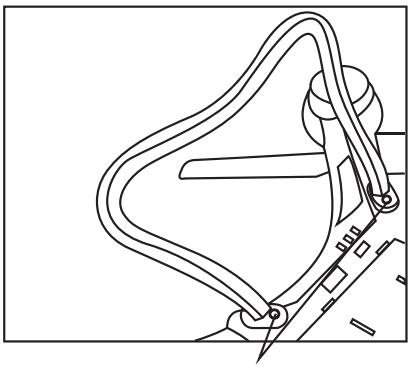


The power switch is located on the right hand side of the screen. Once the quadcopter is switched on (with the HD camera connected), the screen will automatically display transmission. By pressing the Video or Photo button on the remote control, the microSD card in the HD camera is going to record video and take photos respectively.

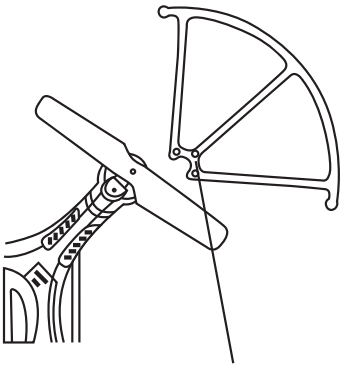


7. ROTOR GUARDS AND LANDING STRUT

1. Included in the package you will find a screw driver, 2 x landing struts and 4 x rotor guards.
2. The 2 x landing struts will fit into the pre-drilled holes on the bottom of the quadcopter, use the screw driver to tighten the screws.
3. The 4 x rotor guards will fit into the pre-drilled holes around each of the 4 rotors. Use the screw driver to tighten the screws.



Screws

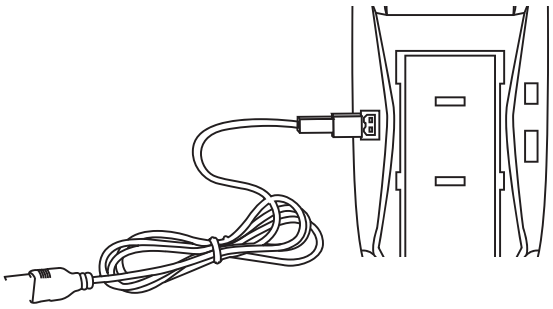


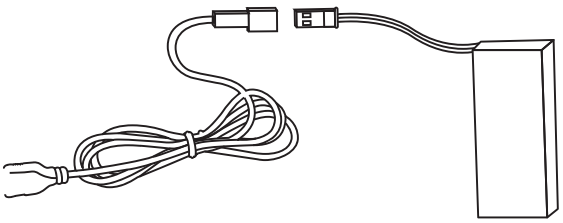
Screws

8. CHARGE THE QUADCOPTER BATTERY

Plug the USB charging cable into a USB power socket such as your PC, the charging indicator light will turn green. Connect the rechargeable battery to the charging cable, indicator will then turn red. Once charging is complete, indicator turns to green again.

Charging time is around 100 minutes.

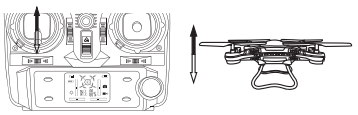
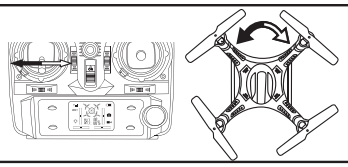
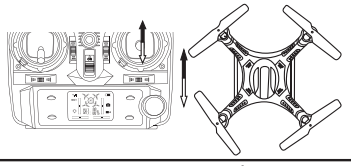
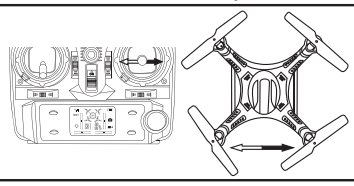
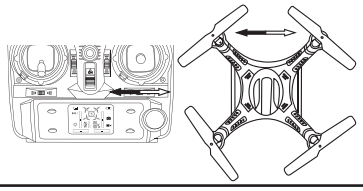
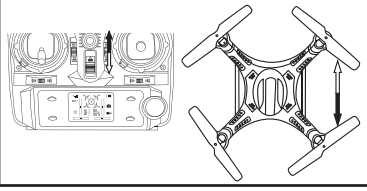




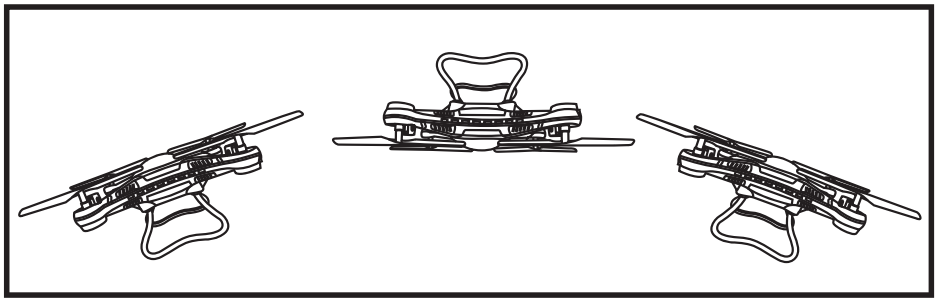
9. PREPARATION & PAIRING

1. Please operate this quadcopter in spacious environment, avoid crowds, power lines and other obstructions. Avoid using the quadcopter in bad weather as rain and wind may damage the unit.
2. Insert the quadcopter battery (Li-Polymer) into the quadcopter, the LED indicator will light on and immediately start flashing. Make sure the quadcopter is level on the ground.
3. On your remote control, make sure the throttle stick is pushed to the lowerst position, then turn on the remote control's power switch. Now push the throttle stick to the highest and then to the lowest again. There will be a beep sound and the quadcopter's LED indicator stops flashing and remains steady. The paring is now complete and ready to fly.

10. FLIGHT CONTROL AND TRIM

ASCEND & DESCEND	Use the throttle stick to ascend or descend. Push the throttle upwards to increase throttle and downward to decrease throttle.	
TURN LEFT & RIGHT	Use the throttle stick to turn left or right. Push the throttle left to turn left and right to turn right.	
MOVE FORWARD & BACKWARD	Use the direction control stick to move forward or backward. Push the direction control upward to move forward and downward to move backward.	
MOVE LEFT & RIGHT	Use the direction control stick to move left or right. Push the direction control left to move left and right to move right.	
LEFT & RIGHT MOVE TRIM	If the quadcopter leans to the left or right when hovering, use the left and right move trim button to adjust to the opposite direction.	
FORWARD & BACKWARD TRIM	If the quadcopter tilts forward or backward when hovering, use the forward and backward trim button to adjust to the opposite direction.	

11. 360° FLIP



When in flight, you can press the flip button on the top right hand corner of the remote control to perform a flip. Once you press the flip button, the quadcopter's LED indicator will start to flash and you will hear a continuous beep sound. Ascend the quadcopter to at least 2 metres high, and then push the direction control stick to the bottom in any direction. You will see the quadcopter flip 360°.

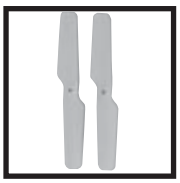
12. TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
LED indicators remains flashing on the quadcopter after powering on.	1. Pairing between the remote control and quadcopter was not successful. 2. Battery is near depletion	1. Repeat the pairing steps. 2. Charge battery.
Propeller blades keeps spinning but unable to lift off.	1. Propeller blades damaged. 2. Quadcopter battery is near depletion.	1. Replace the damaged blade. 2. Charge the quadcopter battery.
Quadcopter vibrates abnormally.	Propeller blades damaged.	Replace the damaged blade.
Quadcopter still leans or turns to a direction even after adjusting the trims.	1. Propeller blades damaged. 2. Motors damaged.	1. Replace the damaged blade. 2. Replace the damaged motor.
After a crash, quadcopter unable to fly again.	1. Motor is damaged or displaced. 2. Gear is loose.	1. Replace motor. 2. Tighten the gear.

13. PARTS LIST

Top Shell

Bottom Shell



Clockwise Rotor Blades

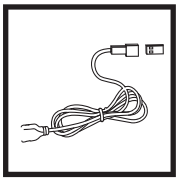
Reverse Rotor Blades

Anti-Clockwise Motor

Reverse Motor

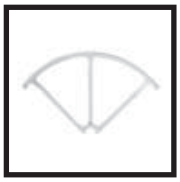
Li-Polymer Battery

Receiver Board



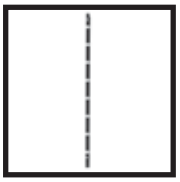
USB Charging Cable

Geared Shaft



Rotor Guard

Landing Strut



LED Lights

Screwdriver