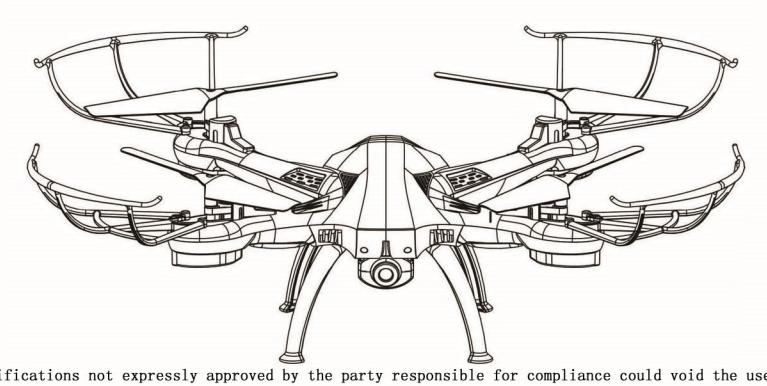
KOOME®

K-200

4CH 2.4G REMOTE CONTROL QUADCOPTER

INSTRUCTION MANUAL



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

2.4G

Key features of quadcopter

Four-axis struture makes the quadcopter more flexible and rapid when flying.
it is wind-resistant and can be flown indoor or outdoor.
Built-in 6 axis gyroscope for precise hovering in the sky.
Simple modular design makes changing parts easy.
With 360° 3D eversion and throwing flight function.

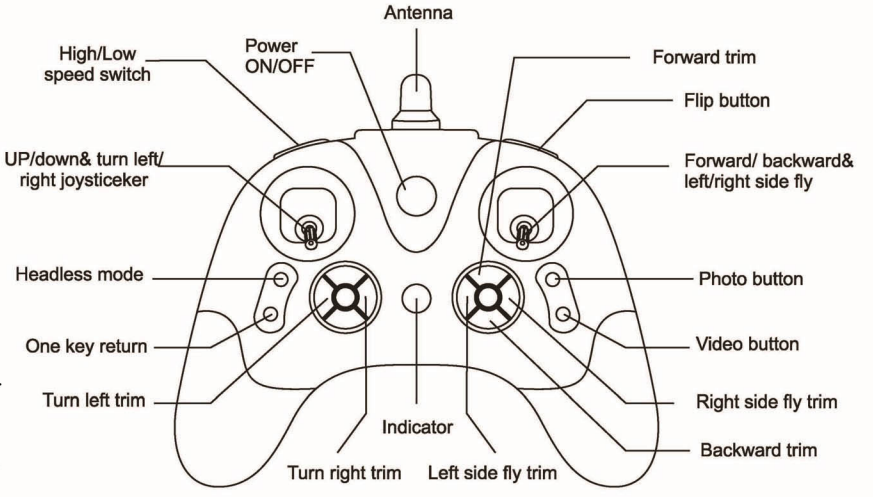
The materials and specification mentioned in this instruction manual or the parts inside this package are for reference only.

IMPORTANT INSTRUCTION

1. This product is not a toy but a precisive equipment that integrating mechanics and electronics with expertise of aerodynamics and high-frequency transmitting.
   It requires to be correctly assembled and dedugged so as to prevent the accident from being happened. The product owner should operate or control it in safe way.
   Please noted that we won't take any responsibility for any wrong operation as this may result in severe injury or loss of property and we can not control the
   operating process during the time when the user assemble or use this product.
2. This product is suitable to be used by people who has operating experience in flying model or age no less than 14 years old.
3. The flying ground we required should be the local field and legal for remote control flying.
4. Once this product is sold, we won't be responsible for any safety responsibility during the time the user operates or uses or controls this product.
5. If there is any problem occurred during the time of using, operating or repairing, please reach our sales agent for details . The sales agent that we authorized will provide you with the technical support and after-sale service.

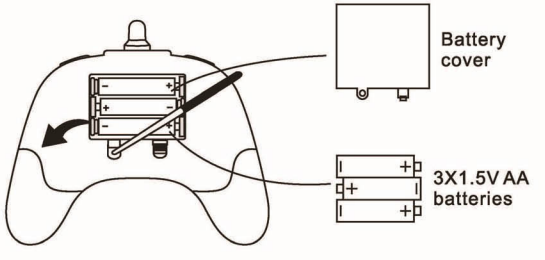
THE NAME OF EACH PART OF THE REMOTE CONTROLLER

Introduction of transmitter



"Headless" Mode: When pressing the button of "headless mode", you will hear the sounds "DI" "DI", then start the headless mode. (At this model, the flying direction is still controlled by the controller .) No matter where the positive direction is, it is according to the operation of the controller. It is very simple and convenient. When you press the key of Headless model, after you hear the sound" DI", out of the headless model.

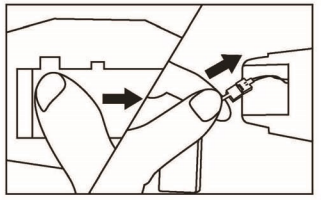
"One Key Return" Mode: In the controllable range, no matter where you are, after you press this button, you will hear "DI", then the drone will return to the player. When you pull the sticker of the controller or press the button again, out of this mode.



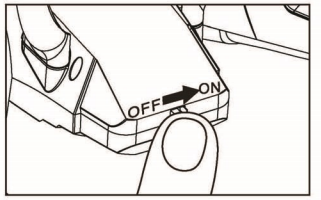
1.Use a screwdriver to remove the screw on the back of transmitter, than open the battery cover(Figure 1)
2.Install 3 "AA" batteries(not included) into the back of transmitter than replace battery cover and reinstall the screw (Figure 2).

1. Install batteries with correct polarity.
2.Do not mix old and new batteries.
3.DO not mix different types of batteries.

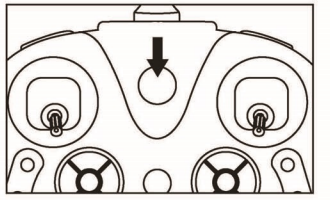
READY TO FLY YOUR QUADCOPTER



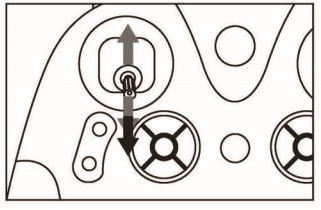
Step 1: open the battery cover and insert the battery into power port.



Step 2: close the battery cover and turn on the quadcopter.

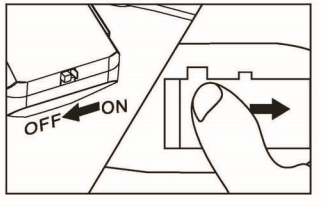


Step 3: press th ON/OFF power switch up.

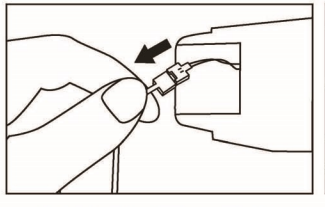


Step 4: push the throttle lever to the highest position, and then pull it bake to the lowest position. there will be one clear sound from the transmitter, this shows that the quadcopter has entered into the pre-fly state.

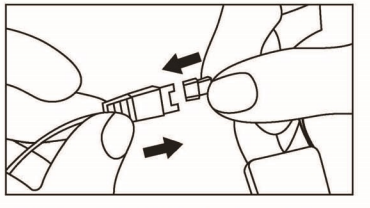
CHARGE BATTERY OF QUADCOPTER



1. Push the on/off switch of quadcopter to OFF position than open the battery cover.



2. Pull out the battery wire from the power port.



3.Take out the USB charging cable and insert the battery power port to the small end of it(Make sure the ports connect tight and correct).

Charging time: 90-100 minutes, flying time: 7-8 minutes

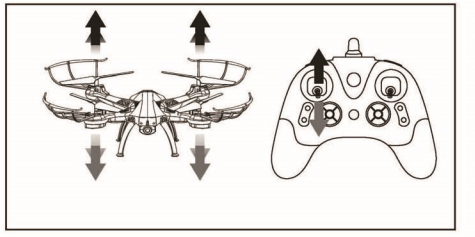
CAUTIONS WHEN CHARGING

1. When charging , please put this product on a dried or ventilated area and keep it far away from heat source or explosive product.
2. When charging, please remove the batteries from the quadcopter, then charging process should be supervised by an adult so as not to cause an accident.
3. After flying, please do not charge the battery if the surface temperature is still not cool. Otherwise it may cause a swollen battery or even a fire hazard.
4. Please make sure that you use the original USB charging cable provided. When the battery has been used for a long time, or appears to be swollen, please replace them.
5. A battery when not in use for a long time will lose its charge automatically. Charging or discharging too often may reduce the life of the battery.

CONTROLLER MODES & INSTRUCTIONS

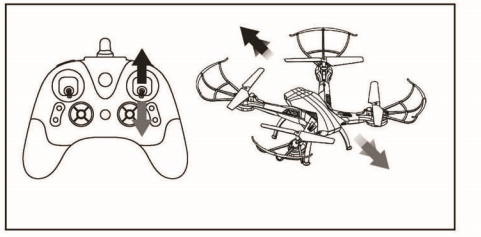
Operating direction

Hover up and down



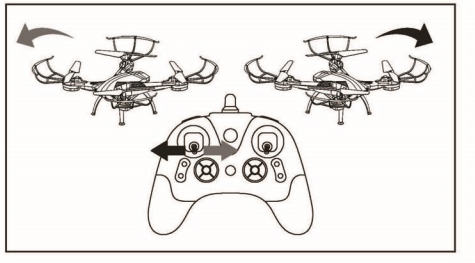
Push the throttle up or down, the quadcopter flies upward or downward.

Forward and backward



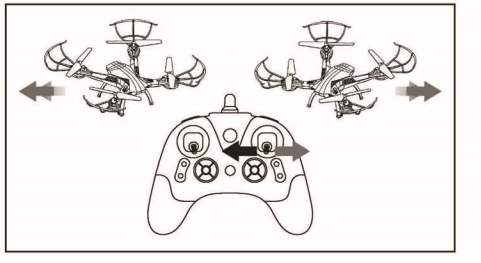
Push the direction lever up or down, the quadcopter flies forward or backward.

Turn left and right



Pull the throttle left or right , the quadcopter turns to left or right.

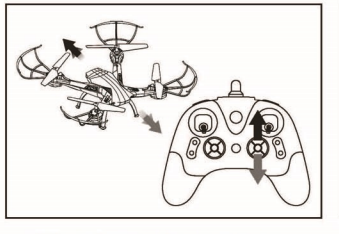
Sideward fly



Pull the direction lever left or right , the quadcopter flies to left side or right side.

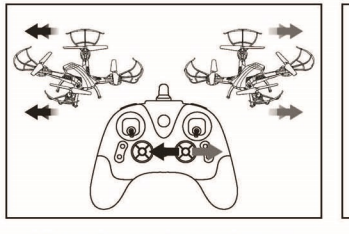
Fine-tuning operation

Forward/Backward fine-tuning



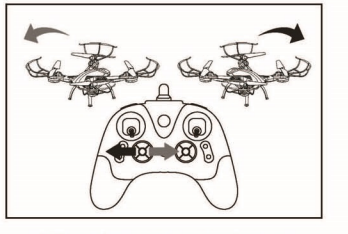
When the quadcopter keeps flying forward/backward, you can correct it by pressing fine-tuning button down/up.

Sideward fly fine-tuning



When the quadcopter keeps flying to left/ right side, you can correct it by pressing the Fine-tuning button right/left.

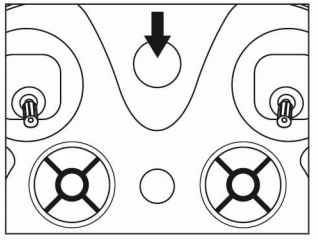
Turn left/right fine-tuning



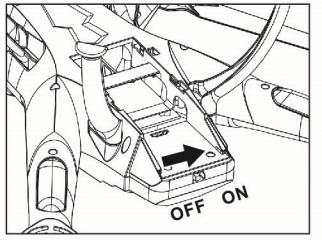
When the quadcopter keeps rotating to left/right, you can correct it by pressing the fine-tuning button right/ left.

INTRODUCTION TO QUADCOPTER FUNCTIONS

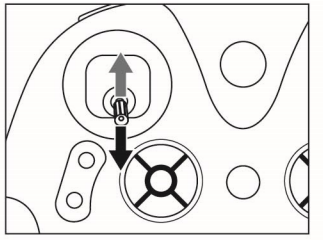
low-voltage protection:
When the quadcopter battery is not enough, the rotors will be stopped power supply. As the quaducopter control systemwill protected battery automatically.
Restart function:
In case of flight disorder or sideward flight, restore factory default settings by the following methods.



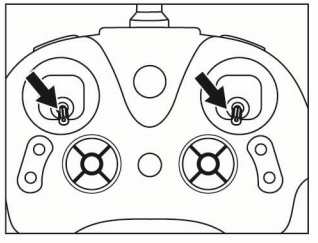
Press the power switch to turn on the transmitter.



Press the power switch to turn on the quadcopter.



When the quadcopter indicator quickly flashing to slowly flashing, please push the throttle lever to the highest position, and then pull it back to the lowest position. Then the quadcopter indicator changed from slowly flashing to normal lights up.

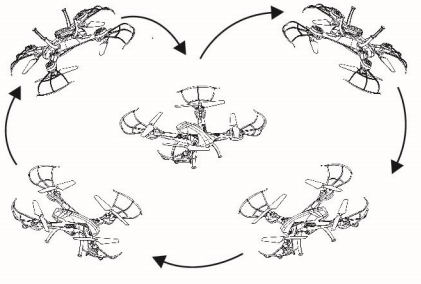


Placa the quadcopter on a horizontal postion, then push transmitter both left and right lever to lowest right conner for about 2-3 second, indicator on the quadcopter changed from normal light up to quickly flashing; After 2-3 second, the indicator changed to normal lights, it means the quadcopter resstarted/ reset successfully.

Throwing flight instructions
thanks to the 6 axis gyroscope, you can throw the quadcopter and push the throttle right up,it will automatically level out and hover smoothly quadcopter isrolling.

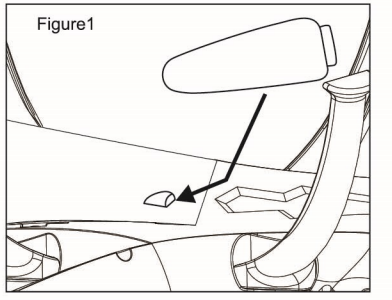
3D EVERSION FUCTION

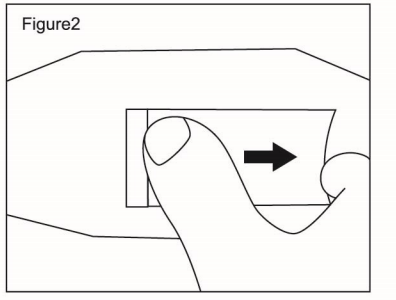
When you are familiar with the basic operation, you can do some awesome & exciting tricks and stunts! First of all, fly the aircraft to a height of more than 3 meters, press the 3D eversion seitch on the rear right side of the transmitter then push the right rudder(in any direction) to make 360 degree flip.

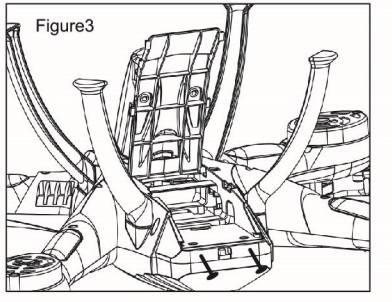


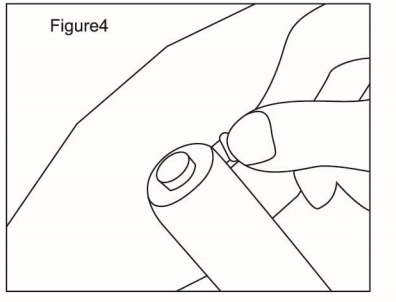
Tips:3D eversion goes better when battery power is enough.

INSTALL CAMERA









1.Push the camera into hold on the battery cover(Figure 1).
2.Open the battery cover with camera (Figure 2).
3.Lock screws to add-on the camera tight (Figure 3).
4.Close the battery cover with camera than insert the 3-pin plug to the hold in side(Figure 4)

PHOTOGRAPHY/VIDEO INSTRUCTIONS:

1.Methods:①Make sure the 3-pin plug of camera is inserted to the quadcopter.
②Turn the quadcopter power on, the camera works normally when the RED indicator change from flashing to green and keep light on. if the RED indicator just light on and light off seconds later, it means the SD card is not in the camera. please insert the SD card, than the indicator light on GREEN.

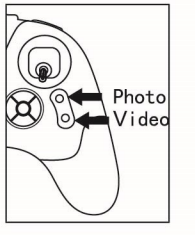


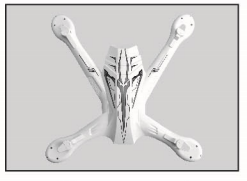
Photo / video:
Photo: when the camera is working, press the button, then you will hear "DI", the light of camera will flash one time, then it take a photo.
Video: When press the button and keep it for several seconds, you will hear the continue sound "DI DI DI".the light of the camera will be flashing, then it is taking video, press the button again, the red light turn green, video is finished.

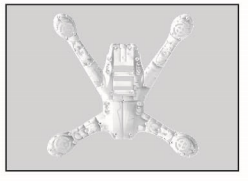
TROUBLE SHOOTING

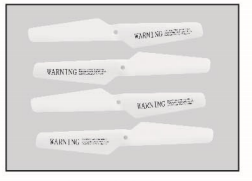
Problem	Reason	Solution
No response from the quadcopter	1.Quadcopter battery power not enough. 2.Transmitter battery power not enough. 3.The band of the transmitter does not correspond to the decoding of the quadcopter.	1.Charge the quadcopter 2.Charge or replace them if required. 3.Adjust the band on the transmitter and keep it the same as the quadcopter.
If the quadcopter is slow to respond or difficult to manoeuver	1.Insuffcient power with the transmitter. 2.Transmitter of the same frequency is used nearby.	1.Replace the battery. 2.Use the helicopter out of the range of other RC quadcopter.

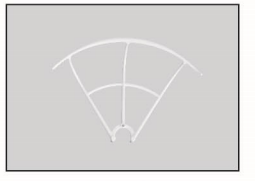
SPARE PARTS

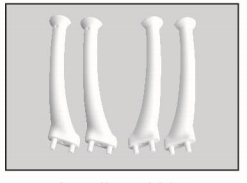
All the sare parts below can bought from local distributor.


The upper end

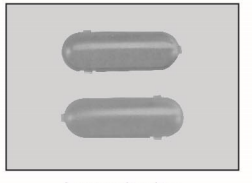

The bottom

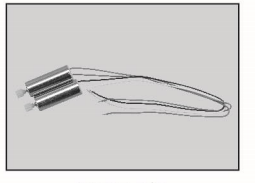

Main blades

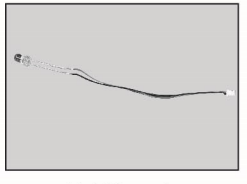

Protecting frames

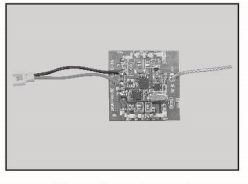

Landing skids

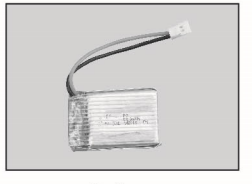

Motor holder

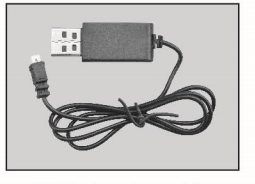

Lampshades

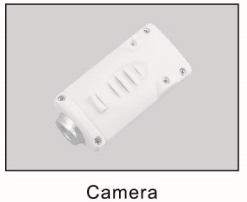

Motor A/B


Light boards


Receiver board

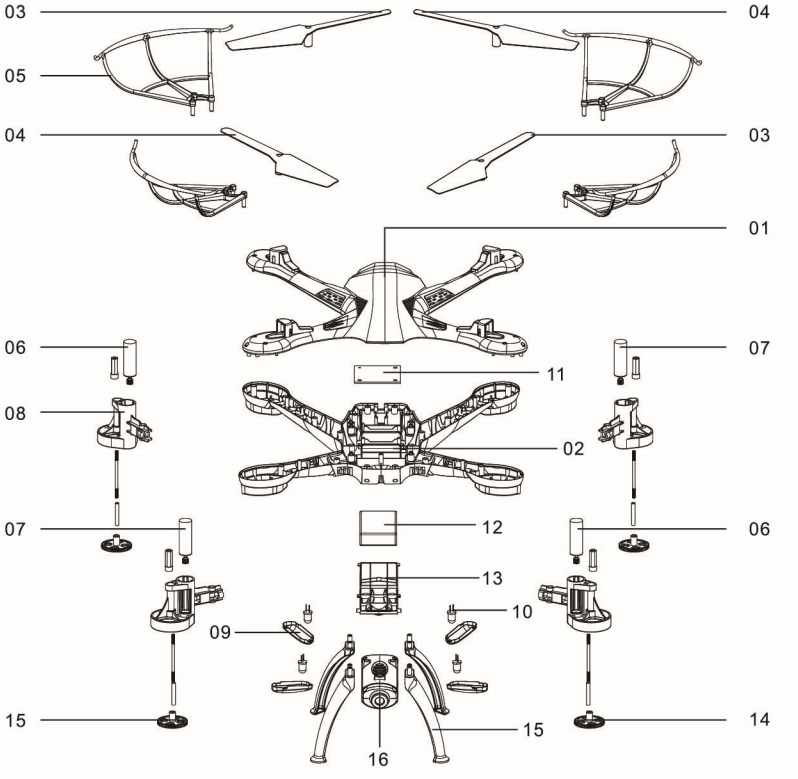

Battery


USB charging cable


Camera


Transmitter

BREAKDOWN&DIAGRAM



Code	Description	Quantity	Code	Description	Quantity	Code	Description	Quantity
01	Upper body	1	08	Motor holder	4	15	Landing skids	4
02	Lower body	1	09	Lampshades	4	16	Camera	1
03	Rotating blade	2	10	Light boards	4			
04	Reversing blade	2	11	Receiver board	1			
05	Protecting frames	4	12	Battery	1			
06	Rotating motor	2	13	Battery cover	1			
07	Reverse motor	2	14	Gear	4			

MAIN PARAMETER

Body length:31.5cm
Body width:31.5cm
Body high:10cm
Main motor code:φ7
Battery:3.7V600mAh Li-poly