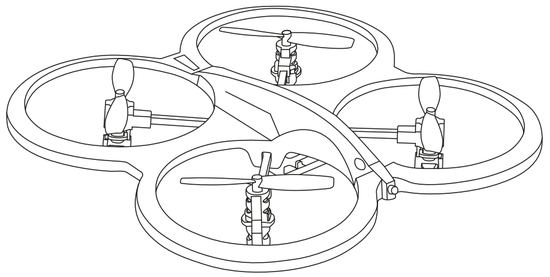
AGES +14

2.4GHZ

STARK DRONE



6 CH REMOTE CONTROL QUAD COPTER

INSTRUCTION MANUAL

Key features of quadcopter

- Four-axis structure 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 360º 3D eversion and throwing flight function.

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

E1032016H1 a.0

CONTENTS

- Quadcopter
- Transmitter
- Main blades
- Li-Poly battery
- Instruction manual
- USB Charging Cable
- Screwdriver

PREFACE

Dear Customers:
Thank you for purchasing our flying model. Please read this instruction manual carefully in order to master the skill more quickly and operate this product more safely. In the mean time, please well keep the original of this instruction manual for future reference.

IMPORTANT INSTRUCTION

1. This product is not a toy but a precisive equipment than integrating mechanics and electronics with expertise of aerodynamics. It requires to be correctly assembled and debugged 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 proccess during the time when the user assemble or use this product.
2. This product is suitable to be used by people who has operating experiencie 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 after-sale service.

SAFETY & CAUTIONS

This R/C flying model is a high dangerous commodity. Please make sure that it should be fielf far away from the crowd. Please also pay more attention to the phenomenon such as incorrect assembly or damaged model or incorrect connection of electronic control equipment. Please also pay attention to the flying safety when operating and know more about the accident that may be happened due to your own negligence.

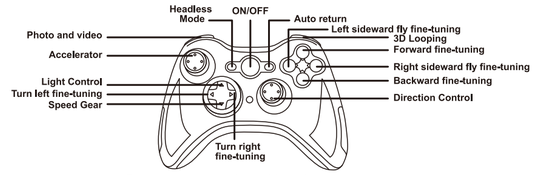
1. Keep it far away from the barrier or crowd. Do not fly it on urban areas.
2. Keep it far away from the moisten environment.
3. Use this product correctly and avoid operating by your own.
4. Keep it far away from the high-speed rotating part and heat source.
5. Please conform to the sequence of power ON/OFF.As the picture below shown, incorrect sequence of power ON/OFF may cause this product out of control and affect your own safety or others. Please form a good habit of switching on or switching off this product orrectly.

Battery warnings:
- Non-rechargeable batteries are not to be recharged.
- Rechargeable batteries are to be removed before being charged. (Transmitter only)
- Rechargeable batteries are only to be charged under adult supervision.
- Different types of batteries or new and used batteries are not to be mixed. (Transmitter only)
- Only batteries of the same or equivalent type as recommended are to be used.
- Batteries are to be inserted with correct polarity.
- Exhausted batteries are to be removed from the toy.
- The supply terminals are not to be short-circuited.
- Do not mix old and new batteries. (Transmitter only)
- Do not mix alkaline, standard (carbon-zinc) or rechargeable (nickel-cadmium) batteries. (Transmitter only)

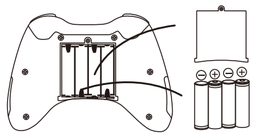
This toy is equipped with a LiPo rechargeable battery, please pay attention to the following cautions for safety use:
- Do not dispose the battery in fire or heat.
- Do not use or leave the battery near a heat source such as fire or heater.
- Do not strike or throw the battery against hard surface.
- Do not immerse the battery in water, and keep the battery in a cool dry environment.
- When recharging, only use the battery charger specifically for that purpose.
- Do not over-discharge the battery.
- Do not connect the battery to an electrical outlet.
- Do not directly solder the battery and pierce the battery with a nail or other sharp object.
- Do not transport or store the battery together with metal objects such as necklaces, hairpins etc.
- Do not disassemble or alter the battery.
- Charge the battery every 6 months.
- Toy battey inside can't be replaced

GET TO NOW YOUR TRANSMITTER

Introduction of transmitter



Remote control Installing the battery



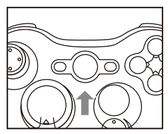
Battery Cover

4 X AAA(LR03)
1.5V Batteries

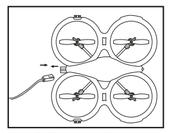
1.Open the battery cover. Install 4 " AAA " batteries (not included) into the back of transmitter than replace battery cover and reinstall the screw.

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

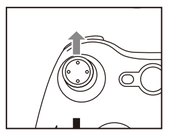
READY TO FLY YOUR QUADCOPTER



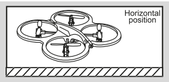
Step1: Open the battery cover and insert the battery into power port.



Step2: Connect the battery and quadcopter.



Step3: Push the throttle lever to the highest position, and then pull it back to the lowest position. There will be one dear sound from the transmitter, this shows that the quadcopter has entered into the pre-fly state.



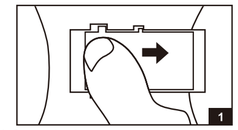
TIPS:
When syncing your quadcopter keep it in a horizontal position to start to a stable flight.

CAUTIONS:

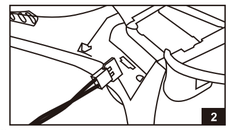
1. When the indicator of transmitter keep light on but the indicator of quadcopter is blinking slowly, it means signal matching was not successful. Please turn off the power both of transmitter and quadcopter and then restart the transmitter and quadcopter.
2. If the quadcopter is till flying to on side dramatically or spinning while hovering, please switch off the power of both the quadcopter and transmitter and then repeat the pre-flying steps.

3. When the indicator of the quadcopter keeps flashing slowly, it means that the quadcopter has entered into the low battery state. This time you need to charge the quadcopter with the USB cable provided.

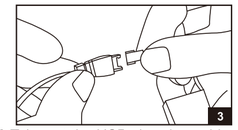
Change battery of quadcopter



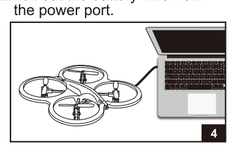
1.Open the battery cover



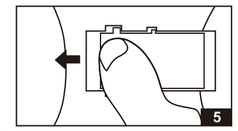
2.Pull out the battery wire from the power port.



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).



4.To charge battery, please insert the USB port of provided USB charging cable to anyone USB port of computer. The indicator on USB cable will light ON during charging battery, than it will light OFF when battery fully charged.
Caution:
When using the computer for charging, please remember to pull out the charging cable before shutting down the computer.Take the battery cover , and close the battery cover on the quadcopter.



5.Reconnect the battery wire to power port than close the battery cover.

Charging time: about 35 minutes - Flying time: about 6-8 minutes!

CAUTIONS WHEN CHARGING

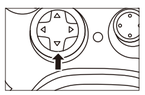
1. When charging, please put this product on a dried or ventilated area and keep it far away from heat source or explosive product.
2. When charging, please remove the batteries from the quadcopter. Then charging process should be supervised by an adult so as not to cause an accident.
3. After flying, 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.

BATTERY REPAIR & MAINTENANCE

1. Battery should be put in the dried or ventilated place with enviroment temperature about 18-25 ºC.
2. In order to enhance the using life of the battery, please avoid repeat charging or excessive discharging.
3. When the battery needs to be stored for a long time, please charge the battery first. That is to say, charge the battery for about 50-60 % of the volume and then well store it.

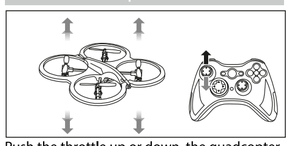
controller modes & instructions

In order to adapt for more plays' operating habits, our controller sets three different speeds- Low/Medium/High Speed can be changed by pushing down the button is shown in the illustration.



Operating direction

Hover up and down



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

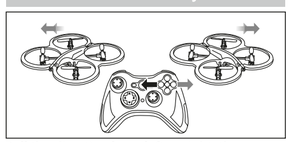
Forward and backward

Push the direction lever up or down, the quadcopter flies foward 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 flyng foward / backward, you can correct it by pressing fine-tuning button down / up.

Sideward fly fine-tuning

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

Turn left/right fine-tuning

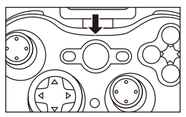
When the quadcopter keeps rotating to left / right, you can you can correct it by pressing the fine-tuning button right / left.

INTRODUCTION TO QUADCOPTER FUNCTIONS

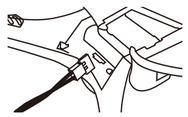
Low-voltage protection:
When the quadcopter battery is not enough, the rotors will be stopped power supply.As the quadcopter control systemwill protected battery automatically.

Over-current protection:
When the quadcopter s rotating blade is collided or jammed, the control system will stop supplying power for the rotors automatically, Then please re-match the signal for flying.

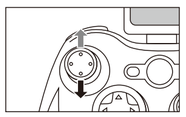
Restart function:
In case of flight disorder or sideward flight, restore factory default settings by the following methods:



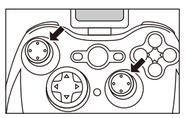
①.Press the power switch to turn on the transmitter.



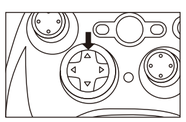
②.Connect the battery to the battery port of quadcopter.



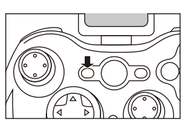
③.When the quadcopter indicator quickly flashing to slowly flashing,please push the throttle lever to the highest position,and then pull it back to the lowest position.Then the quadcopter indicator changed from slowly flashing to normal lights up.



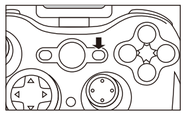
④.Place the quadcopter on a horizontal postion, then push transmitter both left and right lever to lowest left conner for about 2-3 second, indicator on the quadcopter changed from normal lights up to quickly flashing ;After 2-3 second ,the indicator changed to normal lights,it means the quadcopter restarted /reset successfully.



Light Control Function
.Light Control Function: The LED light on the product can be controlled by pushing up button "5". Push up this button at the first time, the light will be on. Push up again this button, the light will be off.



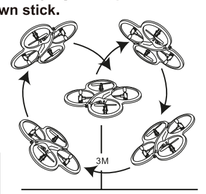
Headless Mode Function:
Under normal control mode, player needs to discriminate front and back of the aircraft, then control forward and backward. RC108 model equipped with headless mode, which is much easy for control. When headless mode was turn on, whatever which orientation the aircraft are, direction is decided by the direction you place when you turn on the quadcopter. How to turn on the headless mode: Push the left button, the headless mode will be turn on, Push again the left control button, the headless mode will be turn off. When Headless Mode Function is on, the lights blink.



Auto-return function:
When you want the aircraft to auto-return, please drive your aircraft in front of you, and press down the right control lever at once, when aircraft flying back, please keep controlling the up and down stick.

3D LOOPING AND THROWING FLIGHT INSTRUCTIONS

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 looping switch on the rear right side of the transmitter, then push the right rudder (in any direction) to make 360º degree flip.



Tips:
3D looping goes better when batterypower is enough.

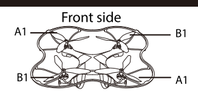
Thanks to the 6 axis gyroscope,you can throw the quadcopter and push the throttle right up,it will automatically level out and hover smoothly in the sky, this can also be done when the quadcopter is rolling.

TROUBLE SHOOTING

Problem	Reason	Solution
No response from the quadcopter	1.Quadcopter battery power not enough; 2.Transmitter battery power not enoughv; 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 rceep it the same as the quacopter.
If the quadcopter is slow to responc	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.
Bad flight stability	1. A srong hit or landing can affect flight stability. 2. An error in changing propellers can affect flight stability. 3. Damaged engine.	1. Use the Reset Function 2. Check codes propellers at the bottom of these. 3. Order your replacement parts to our customer service and change the engine.

Propeller replacement

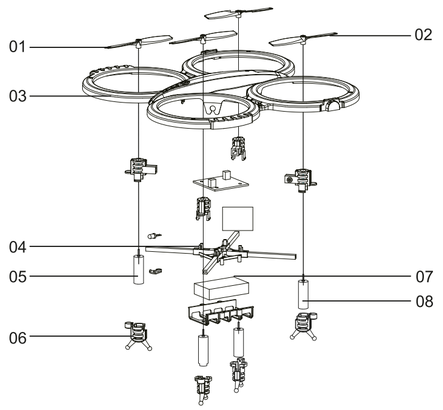
In case of breakage of the propellers, note that the propellers have a code at the bottom. Attention: Replace only the damaged propeller with a spare with the same code, otherwise the drone will not fly properly.



Through this Worldbrands SL declares that the toy meetsthe essential requirements and other relevant provisions of the Directive 1999/5 / EC.

You can view the Declaration of Conformity on the following link:
http://www.worldbrands.es/es/declaraciones-de-conformidad

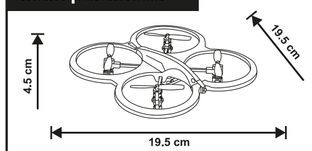
BREAKDOWN & DIAGRAM



Code	Description	Quantity	Code	Description	Quantity
01	Blade A	2	05	Motor A	2
02	Blade B	2	06	Motor sets	4
03	Cabinet	2	07	Battery	1
04	Mini receiver	1	08	Motor B	2

All the sare parts below can bought in our web: www.repuestoswb.com

Main parameter



Body length: 19.5cm
Body width: 19.5cm
Body high: 4.5cm
Main motor code: Ø 7
Battery: 3.7V 300 mAh Li-poly

SPECIFICATIONS AND COLORS OF CONTENTS MAY VARY FROM PHOTO.