ITEM NO.X800

14+

3D ROLL • GRAVITY SENSOR 2.4G • 6-AXIS

X-SERIES

R/C Hexacopter With 6-Axis Gyro

INSTRUCTION MANUAL

Technical parameter of the hexacopter

Fuselage Length:210mm

Overall height: 45mm

Main Rotor Diameter: 55mm

Gross Weight: about 70.5g

Battery: Li-polymer 3.7V 750mAh

Charging Time: about 90 minutes

Motor: Coreless motor

Introduction

- Multi-rotor design insures more stable and powerful performance and make all kinds of 3D action more easier.
- Two remote control ways are available: RC control mode and gravity control mode.
- New designed structure makes assembly and maintenance easier.
- Adopting 2.4G auto connection technology, scores of hexacopters can be played at the same time.
- Equipped with the newest 6-Axis Gyro control system, this hexacopter has the characteristics of stable flight and easy operation.
- Full charged battery can support 7 minutes steady flight.

Product/spare parts included in this packaging

Description	QTY (pc)	Description	QTY (pc)	Description	QTY (pc)
Hexacopter	1	Propeller	6	Screwdriver	1
Remote Controller	1	Landing Gear	2	USB charger	1
Manual	1	Blade changer	1	Holder of the mobile phone	1

Safety Guidelines

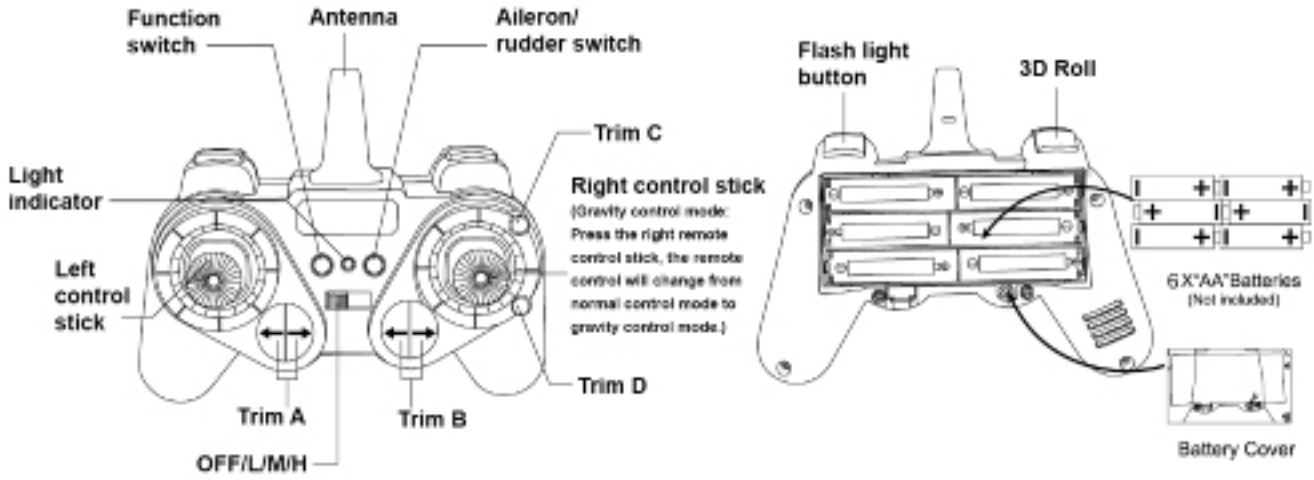
- This product is not a toy. It is not applicable for children who are under 14 years old.
- Please read this instruction manual carefully before playing and operate the product according to the manual.
- The users are in full charge of proper operating the hexacopter. The manufacturer and dealers disclaim all responsibility for the damage caused by misuse.
- Keep the small accessories away from the kids to avoid accident.
- Keep batteries away from fire or high temperature environment.
- When flying the hexacopter, keep it 1~2 meters away from user or others to avoid injury due to collision.
- Not to decompose or modify the product which may cause malfunction or accident.
- Fly the hexacopter within your eye vision for easy and safety control.
- Need adult supervision when this hexacopter is being played by children.
- Only batteries of the same or equivalent type as recommended are to be used.
- Insert batteries with correct polarity.
- Non rechargeable batteries are not to be charged; the transmitter need 6XAA batteries for work.
- Do not mix old and new batteries.
- Do not mix alkaline,standard(carbon-zinc),or rechargeable(nickel-cadmium) batteries.
- The USB charing line to be used with the product should be regularly examined for potential hazard,such as damage to the cable or cord, plug, enclosure of other parts and that in the event of such damage,the product must not be used until that damage had been properly removed.

Remote controller

Main features of the remote controller

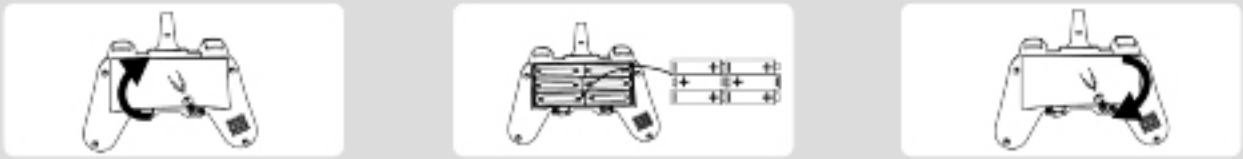
- Adopt microcomputer control remote controller system and 2.4G auto connection technology, scores of copters can be played at the same time without any interference.
- Control the function of upward,downward,forward,backward, leftward, rightward,turn left, turn right and 3D flips & roll of the copter.
- Control stick for leftward/rightward flight and left/right turning can be freely switched according to player's habit.

Sketch and function switches of the remote controller



No.	Function switch	Function description
1	Left control stick	Mode 1:upward/downward, turn left/turn right Mode 2:upward/downward,leftward/rightward
2	Right control stick	Mode 1:Forward/backward,leftward/rightward Mode 2:Forward/backward,turn left/turn right Gravity control mode: press the right remote control stick,there will be a beep sound, the remote control code will change from normal control to gravity control.
3	Trim A	Mode 1: Turn left/turn right fine tuning Mode 2: Leftward/rightward fine tuning
4	Trim B	Mode 1: Leftward/rightward fine tuning Mode 2: Turn left/turn right fine tuning
5	Trim C	When the hexacopter keeps flying backward, press this button until it gains balance.
6	Trim D	When the hexacopter keeps flying forward, press this button until it gains balance.
7	OFF/L/M/H	This is the power switch and the speed toggle switch of the remote control. There are 3 flight speed available for choosing. L is low speed; M is medium speed; H is high speed.
8	Power indicator	The indicator light keeps blinking slowly: the transmitter is not activated. The indicator light keeps flashing rapidly: the transmitter is sending out connectional signal to the hexacopter. The indicator light keeps on without blinking: the transmitter is ready for controlling the flight.
9	Flash light button	This is the light switch of the hexacopter. Press it once to turn on the light and press it once again to turn off the light.
10	Antenna	Transmits wireless signal.
11	Aileron/rudder switch	This is the toggle button of MODE 1 and MODE 2. Press the button, there will be a beep sound, and the remote control mode can be changed from Mode 1 to Mode 2 or Mode 2 to Mode 1.

How to install the battery of remote controller



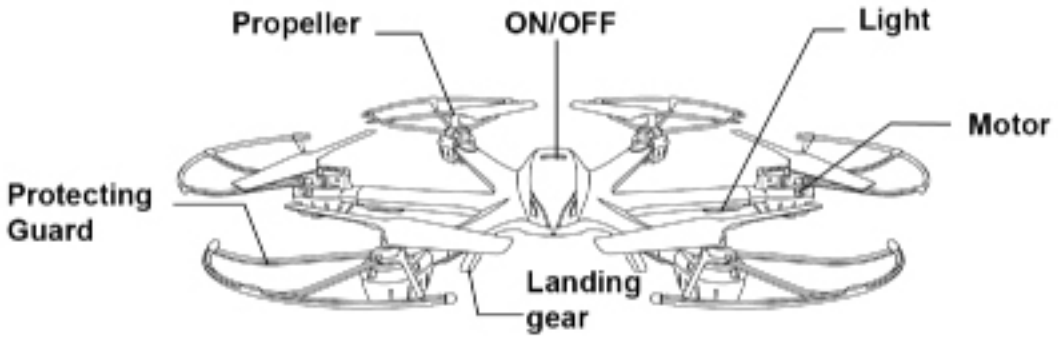
Pic.1 Pic.2 Pic.3

How to remove and insert batteries.

1. Unscrew counter clockwise to open the battery compartment cover. (Pic.1)
2. Install 6 X AA batteries into the battery compartment according to the given polarity. (Pic. 2)
3. Screw clockwise to close the battery compartment. (Pic. 3)

The Hexacopter

Major parts of the hexacopter



How to charge the hexacopter

Unplug the battery cable from the power wire plug and take out the battery. Insert the USB charger into the USB interface of the computer; connect the battery cable with the USB wire plug. The indicator light of the USB will be off when charging is proceeding; once the battery is full charged, the indicator light turns red. Full charging takes about 90 minutes.

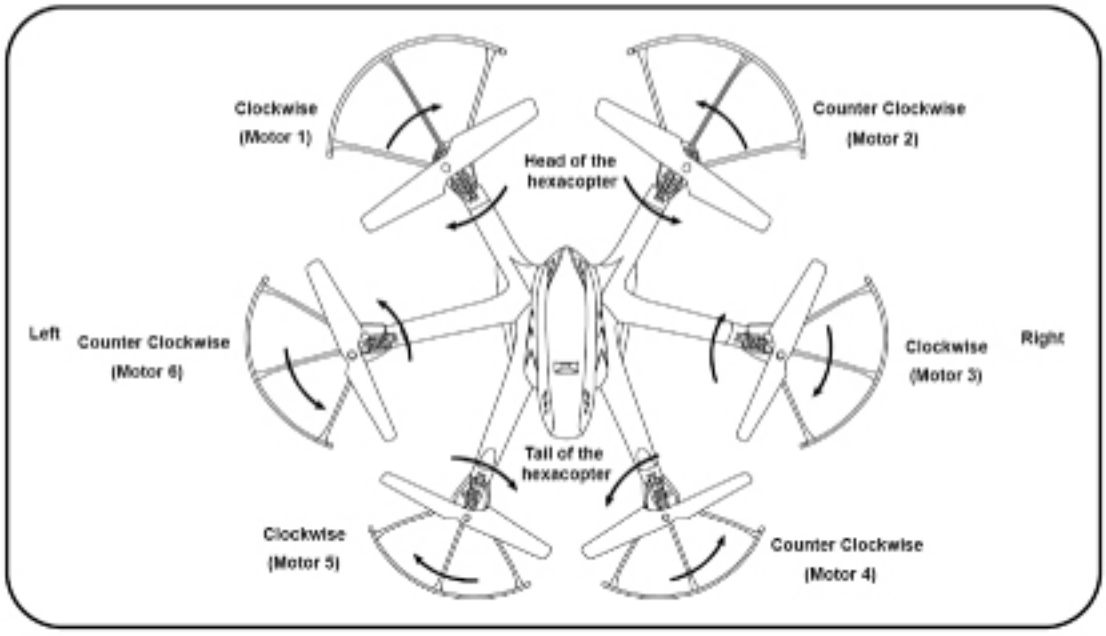
Pic.4

NOTE:Battery should be full charged before storing.

Preparation for flight

- Make sure that the battery (at the bottom of the hexacopter)is well installed and connected with power wire of hexacopter.

- Connect the battery wire plug to the power wire plug, then, the hexacopter is on;the flash light will keep flashing quickly, the gyro of hexacopter will be in signal detecting condition. Set the hexacopter to flat surface, about 3 seconds later, the flash light will keep constant “ON”. It means that signal connection is finished and the hexacopter is ready for flight.
- To ensure steady flight, please set the value of the Trimmer to the midpoint.
- Push up the throttle stick slowly and the hexacopter takes off.
- To avoid any misunderstanding, we have defined the orientation of the hexacopter as follows:The hexacopter is set to be copter nose right ahead and tail facing the player .The copter nose direction is named as “forward”, the tail direction is named as “backward”. The copter flies up to the sky is named as “upward”; the copter flies down to the ground is named as “downward”. Player’s left side is named as “left”, player’s right side is named as “right”. All the directions we are talking about in this manual are subject to the definition above.



Pic.5

- To ensure steady flight, please set the value of the Trimmer to the midpoint.
- Check the rotation direction of the rotor blades which is shown as Pic.5
- If the hexacopter keeps flying to one side, it can be corrected by adjusting the trimmer on the remote control.

Remarks:

- Signal connection between the hexacopter and the remote control is required for the first use.
- Set the connection one by one to avoid signal connection error.
- To better protect the battery, please unplug the battery cable from the power wire after the use.

Trimmer Functions

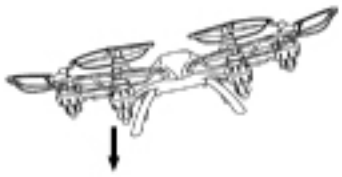
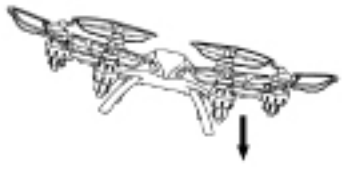
1.If the hexacopter keeps moving forward/backward even there is no control signal given, users may adjust trim C or trim D to keep the hexacopter balanced.

Mode 1 or mode 2

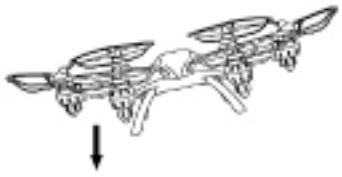
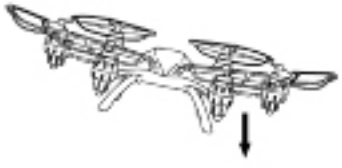
	If the hexacopter keeps moving forward, press Trim D until it gains balance.
	If the hexacopter keeps moving backward, press Trim C until it gains balance.

2. If the hexacopter keeps moving leftward/rightward even there is no control signal given, users may adjust trim A or trim B to keep the hexacopter balanced.

Mode 1

	If the hexacopter keeps moving leftward, press the right button of Trim B until it gains balance.
	If the hexacopter keeps moving rightward, press the left button of Trim B until it gains balance.

Mode 2

	If the hexacopter keeps moving leftward, press the right button of Trim A until it gains balance.
	If the hexacopter keeps moving rightward, press the left button of Trim A until it gains balance.

3. If the hexacopter keeps spinning even there is no control signal given, users may adjust trim A or trim B to keep the hexacopter balanced.

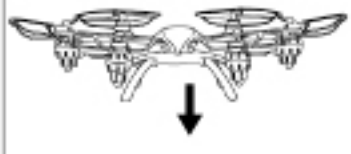
Mode 1

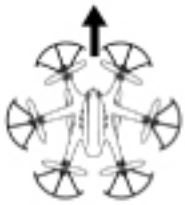
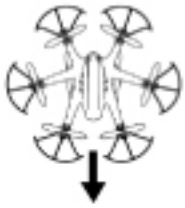
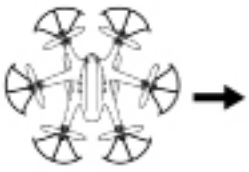
	If the hexacopter keeps spinning counterclockwise in the air, press the right button of Trim A until it gains balance.
	If the hexacopter keeps spinning clockwise in the air, press the left button of Trim A until it gains balance.

Mode 2

	If the hexacopter keeps spinning counterclockwise in the air, press the right button of Trim B until it gains balance.
	If the hexacopter keeps spinning clockwise in the air, press the left button of Trim B until it gains balance.

Operating

Upward		Push up the throttle control stick, the rotation speeds of the mains rotors are increasing and the hexacopter ascends accordingly.
Downward		Push down the throttle control stick, the rotation speeds of the mains rotors are decreasing and the hexacopter descends accordingly.
Turn left		Turn the left/right turning control stick to the left,the hexacopter will turn left.

Turn right		Turn the left/right turning control stick to the right,the hexacopter will turn right.
Forward		When the hexacopter is flying, push up the forward/backward control stick, the hexacopter will move forward.
Backward		When the hexacopter is flying, push down the forward/backward control stick, the hexacopter will move backward.
Leftward flight		Turn the sideward flight control stick to the left side,the hexacopter will fly leftward.
Rightward flight		Turn the sideward flight control stick to the right side,the hexacopter will fly rightward.

3D Roll

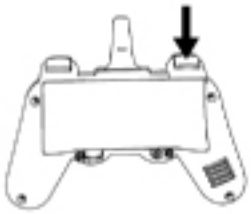
There are 3 channels of the remote control: low speed channel, medium speed channel and high speed channel. At any channel, press the roll button on top of the remote control, the hexacopter will roll forward or roll backward accordingly. When the remote control is at high speed channel, roll action can be done through controlling the forward/backward control stick and the leftward/rightward flight control stick.

Manual Roll(at high speed channel):

When both of the left and right control stick travels are more than 95%, roll action will be performed once; when both of the left and right control stick travels are less than 95%, the hexacopter will perform the flight according to the received control signal.

One key Roll (at any channel):

To easily enjoy the fun of rolling, player can press the one key roll button to perform roll action. Before rolling, make sure that the hexacopter is flying 3 meters above the ground; then, press the one key roll button, the hexacopter will roll forward or backward according to the given signal.



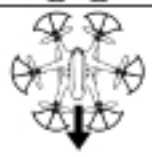
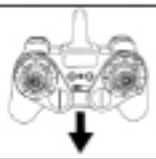
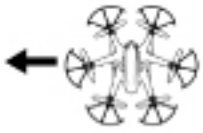
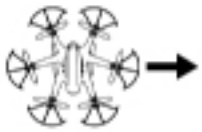
Pic.6

TIPS:

1. **Beginners are recommended to play the hexacopter at low speed or medium speed channel.**
2. **It is better to play the hexacopter at open and wide space.**

Gravity control mode

1.Press the right remote control stick,there will be a beep sound, the remote control code will change RC control to Gravity control.

		**When the remote control is leaned forward, the hexacopter will fly forward.**
		**When the remote control is leaned backward, the hexacopter will fly backward.**
		**When the remote control is leaned left, the hexacopter will fly leftward.**
		**When the remote control is leaned right, the hexacopter will fly rightward.**

FPV camera #C4005/#C4006 installation (not included in the package)

Installed with #C4005/#C4006 camera, the hexacopter can take photos and videos, if download and install the FPV software to the smart phone, FPV real-time transmission can be achieved through the connection of the hexacopter and the smart phone.

Install the holder of the mobile phone:

Pic.7

Pic.8

Pic.9

Pic.10

1.Connect the stand bar to the mobile phone fixing component.(Pic.7)
2.Adjust the fixing component upward or downward according to the size of the mobile phone.(Pic.8)
3.Set the mobile phone holder to the top of the remote control.(Pic.9)
4.Pull back the lock center of the stand bar and slowly push up the holder, the mobilephone holder would be taken down.(Pic.10)

#C4005 installation:

Pic.11

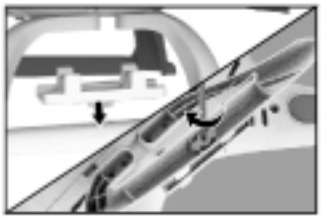
Pic.12

Pic.13

Pic.14

Pic.15

Pic.16



Pic.17

Pic.18

1.Take out the screws of the battery door by screwing counter-clockwise (Pic 11).
2.Pull out the battery door(Pic.12).
3.The camera should be fastened to the interface at the bottom of the hexacopter.(Pic.13)
4.Fix the camera by screwing clockwise.(Pic.14)
5.Insert the camera wire plug to the camera interface.(Pic.15)
6.Insert the camera wire plug to port of C4005.(Pic.16)
7.Insert the antenna bracket into interface of the foot stand and lock the screws.(Pic.17)
8.Install the antenna to the antenna bracket.(Pic.18)

#C4006 installation:

Pic.19

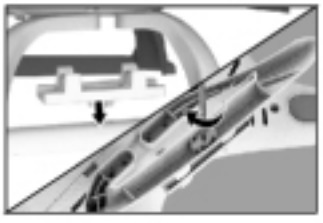
Pic.20

Pic.21

Pic.22

Pic.23

Pic.24



Pic.25

Pic.26

1.Take out the screws of the battery door by screwing counter-clockwise (Pic 19).
2.Pull out the battery door(Pic.20).
3.The camera should be fastened to the interface at the bottom of the hexacopter.(Pic.21)
4.Fix the camera by screwing clockwise.(Pic.22)
5.Insert the camera wire plug to the camera interface.(Pic.23)
6.Insert the camera wire plug to port of C4006.(Pic.24)
7.Insert the antenna bracket into interface of the foot stand and lock the screws.(Pic.25)
8.Install the antenna to the antenna bracket.(Pic.26)

FPV software download and installation

Install software

- Mounted with camera set #C4005 and install the "MJX C4005 FPV" software to smart phone, the photos and videos that taking by the hexacopter can be seen alive when the hexacopter is flying.
- Mounted with camera set #C4006 and install the "MJX C4006 FPV" software to smart phone, the photos and videos that taking by the hexacopter can be seen alive when the hexacopter is flying.

- For Android system, please visit our website www.mjxrc.com to download the software "MJX C4005 FPV"or"MJX C4006 FPV".
- For Apple IOS system, please go to the APP store to download the software "MJX C4005 FPV"or "MJX C4006 FPV".

Instructions

Power on the hexacopter, the FPV indicator light (at the bottom of the hexacopter) is on. Enter into settings of the smart phone, open WIFI, search "MJX C4005 FPV ****"or "MJX C4006 FPV ****"and connect it. After successful connection, exit settings. Open "MJX C4005 FPV" software or "MJX C4006" at the smart phone; click " MONITOR " to enter into the control interface to watch the real-time video.

Pic.27

1.Open the software "MJX C4005 FPV" or "MJX C4006 FPV".

Pic.28

2.Click the MONITOR button.

Pic.29

3.Image is showing on the screen.

Accessories (Optional)

800001
Upper Cover
(White)

800002
Upper Cover
(Black)

800003
Lower Cover
(White)

800004
Lower Cover
(Black)

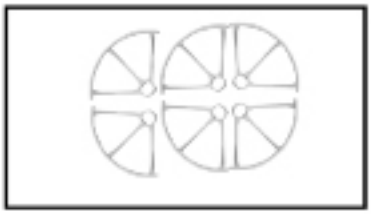
800005
Prevent Opposite
Plug Seat
(White)

800006
Prevent Opposite
Plug Seat
(Black)

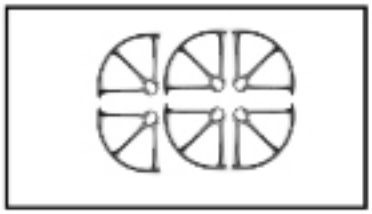
800007
Transparent Part
(Blue/Orange)

800008
Left/Right Landing
Gear (White)

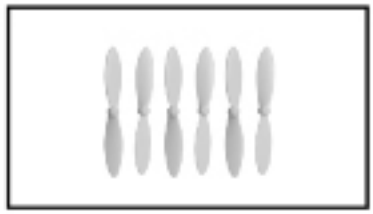
800009
Left/Right Landing
Gear (Black)



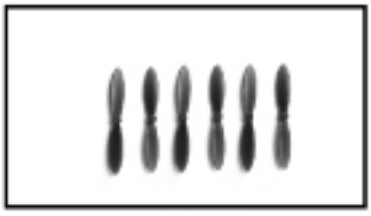
800010
Protecting Guard
(White)



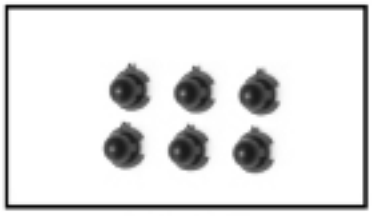
800011
Protecting Guard
(Black)



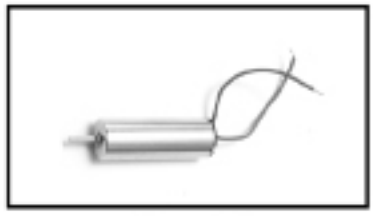
800012
Propeller A/B
(White)



800013
Propeller A/B
(Blcke)

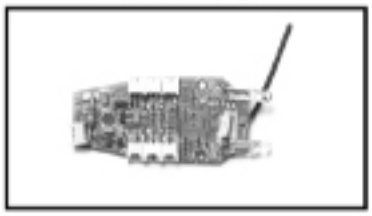


800014
Motor Bottom
Lid Rubber

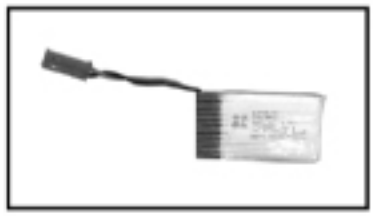


800015
Clockwise Motor

800016
Counter Clockwise
Motor



800017
Receiver PCB



300C18
Battery

300C19
Charge

800018
Front and rear lights

800050
Manual

800051
Gift Box

800052
Inner Blister

GR139
Remote Controller

Trouble shooting

	phenomenon	reason	solution
1	The lights are flashing quickly.	Gyro of the hexacopter is under signal detecting condition.	Set the hexacopter to any flat surface.
2	The lights are flashing on twice and flashing off once.	The hexacopter is not received the signal from the remote control or signal connection is interrupted.	For absence of signal, activate the remote control for the signal connection.For signal interruption,turn off the remote control and turn it on again.
3	The lights are flashing on and off.	The hexacopter is underpowered.	Charge the battery or change another full charged battery.
4	The hexacopter is shaking fiercely.	The rotor blade is out of shape.	Change the rotor blades.