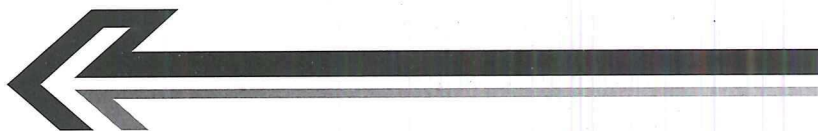


goDiscover

USER MANUAL



KIT | PNP



PLEASE READ THIS MANUAL CAREFULLY AND FOLLOW THE INSTRUCTION

Thank you for choosing this classic model airplane. This model is for beginner, intermediate and experienced hobby enthusiast. Hope you have a nice time with this wonderful model!!! Happy flying !

Disclaimer: *Do not fly this Airplane at full-throttle for long periods of time, recommended 20-25 seconds burst!*

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SPECIFICATION

Technical Parameter
Wingspan:1600mm(63inch)
Length:737mm(29inch)
weight:1800g
ESC:40A
Servo:9g x 4
Radio:4CH
Motor:brushless KV 800
Battery:Lipo 14.8V(4s) 3300-3600 mah 25C

SAFETY INSTRUCTIONS

1. Do not fly in storms, strong winds, bad weather or lightning
2. NEVER FLY NEAR POWERLINES, overhead wires, roads, railroads or airports
3. Never fly near houses or people! Your GoDiscover can cause damage to property or injury!
4. Do not fly where other models on the same frequency are flying, until you do a preflight check of all your controls
5. Make sure you do a preflight check- inspect the whole plane and make sure the motor runs smoothly and all your controls work properly. Do this before EACH FLIGHT!
6. Use only genuine HobbyKing replacement parts
7. Don't try to catch the GoDiscover during flight- you could be badly injured! Take off from and land on a suitable landing strip.
8. Not recommended for children under 12 years old. Children under 14 should operate the model only with a responsible adult.
9. The GoDiscover includes small parts (choking hazards) and sharp edges! Assemble and store your plane out of the reach of children.
10. Never install batteries incorrectly- check the polarity (positive and negative) before connecting or installing batteries
11. Keep your GoDiscover out of direct sunlight (unless you're flying it!) and away from heat sources. Foam can distort when it is overheated.
12. Fly intelligently-don't fly towards yourself or other people, or structures, cars, trees, animals, or anything else on the ground.

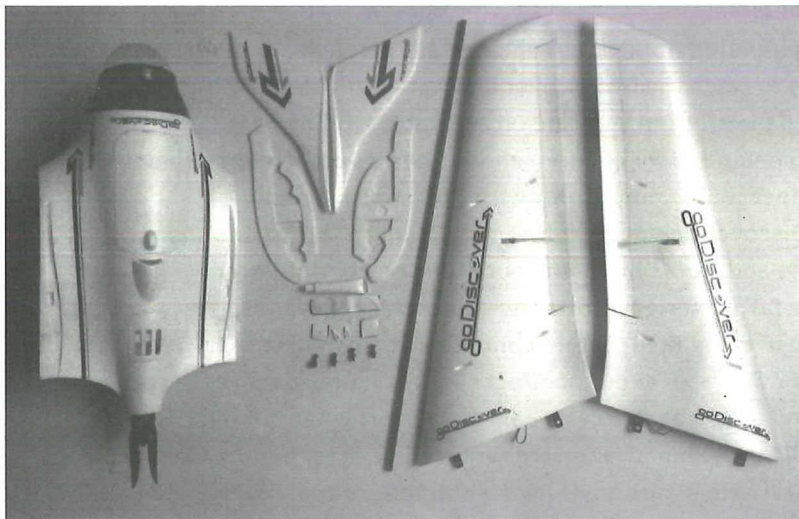
DESIGN FEATURES

1. The GoDiscover is designed specifically for FPV/UAV flying, the large hatch and inside fuse area leaves plenty of room for large batteries and space for your FPV/UAV equipment.
2. Cooling holes are designed within the aircraft to ensure that your electronics have a continuous air flow for maximum performance and longevity.
3. The nose camera gimbal system and tinted Acrylic nose dome is specifically designed to cradle a GoPro or similar. The 2-axis camera gimbal system has PAN and TILT functions providing a perfect haven for your camera system against the conditions, and in the case of a crash or a mishap parts are easy to interchange.
4. The wings and dome are held on by rotating thumb lock screws, this ensure that setup and tuning is quick and simple without the need of tools.
5. Removable wing fences and a highly modified EH style airfoil ensures stability, great low speed handling, and heavy cargo capability.
6. PVC landing skid and wingtip skids provide great protection on landings.
7. Super easy to assemble.

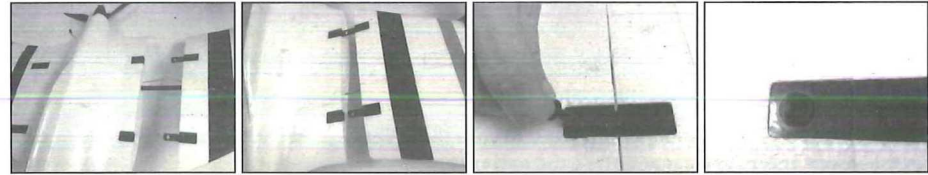
ASSEMBLY INSTRUCTIONS

This manual provides simple step by step assembly instructions. However, if this is your first plane, we recommend that you ask a fellow flier for some help putting your GoDiscover together. They will probably jump at the chance just to get a look at it!

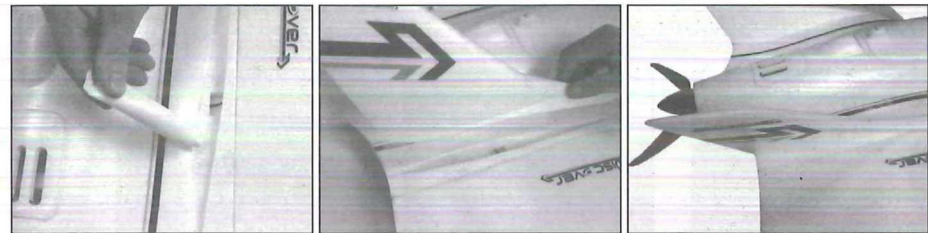
WHAT'S IN THE BOX



ASSEMBLY INSTRUCTIONS



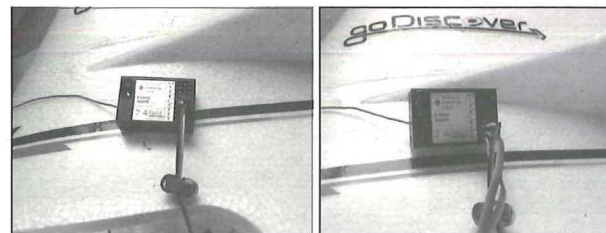
1. Slide the wing tube inside the wing, then securely fasten the wing to the plastic wing holder assembly. Insert and rotate the thumb screw 90 degrees until you feel that the screw has locked inside.



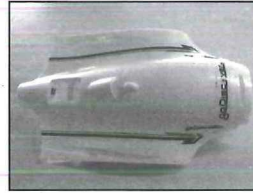
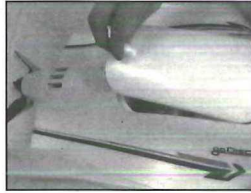
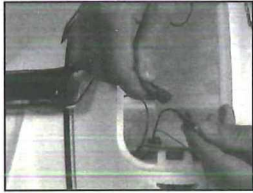
2. Add glue on the connecting part for the vertical wing, Paste the vertical wing to the fuselage.



3. Cut down the 2 pieces of wing fence. Add glue on the corresponding place of the main wing and glue them on the wing. (As shown on the pics)



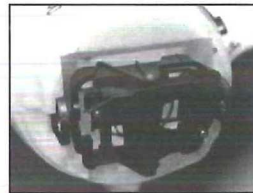
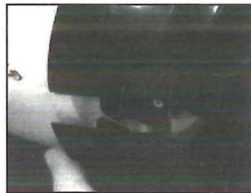
4. Plug the servo wires into the appropriate channel's on your receiver. The gimbal system's servos can be connected to any auxiliary channel on your receiver. (Please see your receiver's instruction manual for further details)



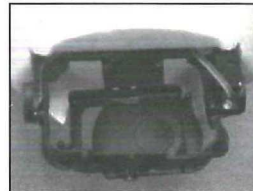
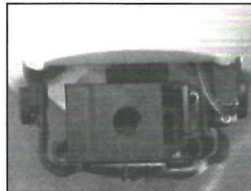
5. Connect the XT-60 connector of the ESC to your flight battery. Fasten the battery to the inside of the fuselage and close the battery hatch.

Note: Battery positioning may vary per customer, depending on your model's setup and equipment use you will need to balance your model for the correct C.G., please refer to the picture below for C.G. details.

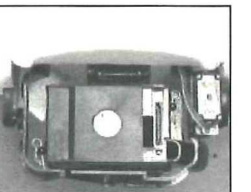
INSTALL THE GIMBAL SYSTEM



6. Remove the outside of the canopy shrouds by rotating the screws on both sides by 90 degrees, once the screw is turned then pull the screw out. Once the screws are removed you may lift up on the outside shroud plastics and remove the canopy lens.

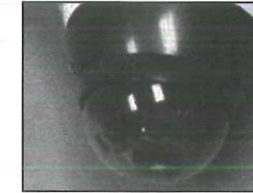
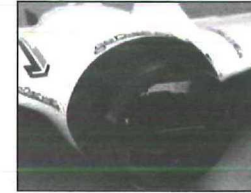


7. Gently rotate the gimbal system down so you see the metal retaining clips holding the camera backplate plastics. Remove these metal clips from the posts so you may fit the camera.

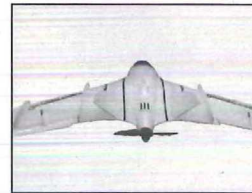


8. Once the backplate is removed position your camera system inside the retainer and fasten back the metal retaining clips to the locking post.

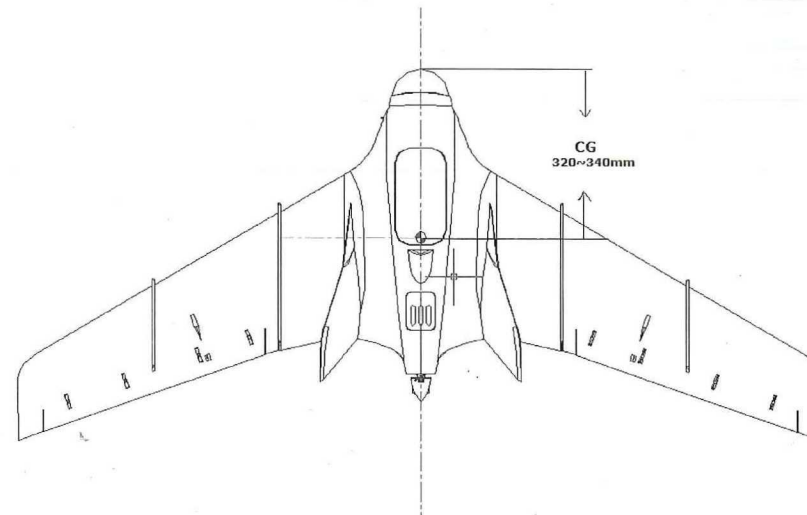
Note: please make sure to choose the proper camera adapter for your Camera. Included are adapters for GoPro2, GoPro3, and other types of camera systems commonly used.



9. After you connect all your servo wires to the AUX portion of your Rx and adjust the movement on the gimbal servo travel you may then securely fasten the top and bottom shroud together. Please note that the lens has groove on the edge, this groove must lock into the top and bottom shroud correctly. Once the shroud fits together rotate the locking screws on both sides by 90 degrees and make sure they are secure.



10. Assembly finished.



WARNING- before plugging in the battery, turn on the transmitter and make sure the throttle and the throttle trim are set to OFF (all the way down). **KEEP CLEAR OF THE PROPELLER!** (Remember that this is very sharp propeller!)

Open the battery hatch cover at the top of the fuselage and install the battery in the forward compartment, which is angled down towards the nose. Install the battery first, and then plug it in.

Make sure that no wires are out of place, and close the battery hatch.

SAFETY INSTRUCTION OF LI-POLY BATTERY

1. Do not disassemble or reconstruct the battery.
2. Do not short-circuit the battery.
3. Do not use or leave the battery nearby the fire, stove or heated place (more than 80°C)
4. Do not immerse the battery in water or sea water, do not get it wet.
5. Do not charge the battery in direct sunlight.
6. Do not impact or toss the battery.
7. Do not use the battery with conspicuous damage or deformation.
8. Do not attempt direct soldering on the battery.
9. Do not reverse charge or over discharge the battery.
10. Do not reverse charge or reverse connect.
11. Do not connect the battery to the ordinary charger socket or car cigarette jack.
12. Do not use the battery for unspecified equipment.
13. Do not touch the leaking battery directly, please wash your skin or clothes with water.
14. Do not mix the Li-Poly battery with other dis-charged battery in using.
15. Do not continue charging the battery over the prescribed time.
16. Do not use or keep the battery under the direct sunlight.
17. Do not use the battery nearby the place where generates static electricity.
18. Do not use the battery when the environmental temperature is under 0°C or over 45°C.
19. If you find the battery leaking, smelling or abnormal, stop using it and return it to the seller.
20. Keep the battery away from children.
21. Use the specified charger and observe charging requirement.
22. When used by minors, parents should show them to the correct instruction.

CAUTIONS

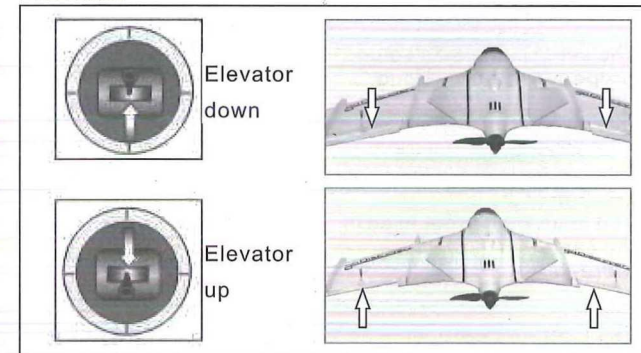
Do not over charge or over dis-charge battery.

CONTROL DIRECTION TEST

You should bind your aircraft and transmitter before doing these tests. Move the controls on the transmitter to make sure aircraft control surfaces are moving correctly.

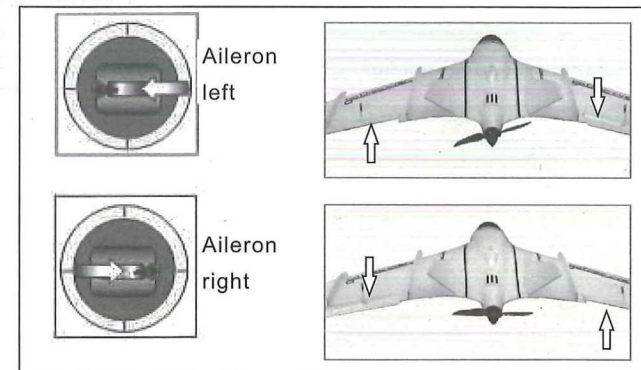
Note: Make sure tail pushrods move freely and that paint or decals are not adhered to them.

Elevator



$\pm 20^\circ \sim \pm 25^\circ$

Aileron















$\pm 20^\circ \sim \pm 25^\circ$

**TROUBLE SHOOTING**

Problem	Cause	Solution
Motor does not run	<ol style="list-style-type: none"> 1. Battery is not fully charged. 2. The battery of transmitter is not sufficient 3. Check the wire connection inside the model 	<ol style="list-style-type: none"> 1. Charge the batteries. 2. Install a full charged battery 3. Contact the local dealer
No reaction of the control surface	<ol style="list-style-type: none"> 1. The servo cable didn't plug properly or inverted plug. 2. the servo is damaged 	<ol style="list-style-type: none"> 1. Check the connection of the servo cable 2. Change another servo.
Can not fly straight	<ol style="list-style-type: none"> 1. The rudder is not in the center position of the airframe 2. The main wing is not fixed in the center position of the airframe. 	<ol style="list-style-type: none"> 1. Adjust the trim switch on the transmitter 2. Re-assembly the main wing
Can not climb	<ol style="list-style-type: none"> 1. The battery is not fully charged. 2. Elevator is out of trim. 	<ol style="list-style-type: none"> 1. Charge the battery 2. Adjust the trim on the Transmitter.
Limited control range	The batteries are almost flat	Install new batteries

REPLACEMENT PARTS

		
Fuselage 310000122	Main wing 310000123	Vertical Stabilizer 310000124
		
Clear Lens(dome) 310000125	Reflective dome 310000126	Main housing(cowling) 310000127
		
Flexible propeller 310000128	Gimbal system 310000129	Propeller blades 310000130
		
Control wire-steel 310000131	Plastic main wing bolt 310000132	PVC skid piece 310000133
		
Brushless Motor (KV800) 310000134	Carbon fiber tube 310000135	Decal 310000136



FPV Made Simple



MADE IN CHINA

