



# **DHC-2** A600

5CH BRUSHLESS MOTOR 3D6G SYSTEM AIRPLANE

# **Quick Start Guide**



www.xk-innovations.com

#### Introduction

Thank you for purchasing Our XK A600 DHC-2 beaver simulation plane, the plane used 6 axis gyroscope (compatible with the 3D/6G 3 axis gyroscope) With the function of 3D transfer to 6G, 4-CH Single wing layout is very suitable for you to do sports and leisure flying, even if you are a beginner, in 6G mode also can be easy to flight.

If you are a little flying experience, in 3Dmode, you can easily make stunt like professional person.

Matching 2S lithium polymer battery 2500KV1106 brushless motor, high efficiency of blade, provides strong power for you. This aircraft uses gyroscope aided flight, Before the first flight, Pls read the instructions, so that you can experience and enjoy it, stabel 3 axis gyro is compatible with the 6 axis gyro.

The great Electronic gyroscope system ,3 axis gyroscope 3D flight, you can lock the attitude precision, easy to make a variety of special effects.6 axis gyroscope 6G flight, the attitude model is very stable, very suitable for beginners to flight, Regardless of any aircraft in flight, the aircraft immediately reply to loosen the rocker, smooth flight.

Standard X4 Transmitter aileron down the joystick in seconds for transfer 3D/6G , to experience different fun.

A high-end Transmitter fifth channel switching control gyroscope, 3D/6G

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#### Safety precautions

The hobby belong to the dangerous goods, flying must be away from people. If Install not well or spare parts broken, Tranmitter control broken, and not have experience of handing, It all may causing flight out of control and broken. Pls be carefully for flying. And you must to know that the duty of wrong handing is in charge of yourself.

This product flight is suitable for the outdoor and wind scale less than 4 grade. This hobby need fly at outdoor and without any obstacle. And keep away from people and pets pls do not flight in the dangerous environment, such as heat source,wire, power source and soon. In order to avoid collision, landing, risks and causing fire, electric shock, thereby causing the loss of your property.



This products composed of sophisticated electronic components, so must absolutely prevent moisture or water vapor, avoid to use in bathroom or in the rain, prevent water vapor enter into inside of the body and cause the body and electronic component broken and causing the unexpected accident.



Please do not disassemble or any transformation process, any upgrade or repair, please use this product catalog parts, to ensure the safety of the structure.

Please confirm the product limit operation, do not overload to use, and must be use according to the law.



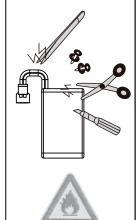
Pls confirm the positive and nagetive position of the battery when Install it. Do not uput together with the old and new battery so as not to affect the life of battery.

If long time does not use this product, please take out the battery, so as to avoid battery leakage, fault. If the battery liquid leakage do not use. Waste battery, please according to the countries or regions of the waste disposal, in order to avoid polluting the environment.



Li-po battery is more danger compared with other battery. Pls read the introduction method of the battery before you use. Our company will be not reposible for the wrong way to put the battery.

- (1. Prohibited to use other charger except from our factory. In order to avoid the dangerous of explosion and fire.
- 2. Prohibited hit, disassemble, Polarity reverse connection, Burning of the battery, Avoid metal products touch the positive and negative of the battery and cause short circuit. And please prevent sharp products pierce the battery, to avoid fire of the battery.
- 3. Pls be careful when charging, be ensure that charging in your line of sight. And keep away from the place which the children can touch. In order to avoid danger.
- 4. Prohibit charging when the battery hot. otherwise it will cause the battery expansion, deform, explosion even fire burning, cause the safety of the life and property.
- 5. Please clean up abandoned battery recycling in strict accordance with the law of the country or region of waste disposal, to avoid pollution of the environment.)



FORBIDDEN

Remote control like the real machine is mostly EPS foam, electronic products as the main material, so try to keep away from heat, sunlight, to avoid distortion caused by high temperature and melt the possibility of damage.

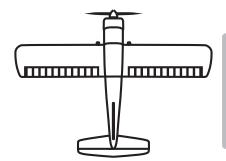


This product is suitable for more than 14 years of age, flight the real machine would be a little difficult to learn. Like the real machine would be a little difficult to learn. ery difficult at the early stage of learning, to manipulate the model prototype simulator like flying.

#### **Packing list**

No.	Name	Quantity	No.	Name	Quantity	No.	Name	Quantity
1	color box	1	5	battery 7.4V 300mAh	1	9	controller	1
2	Poly packing	1	6	charger adapter	1	10	airfoil	1
3	entry manual	1	7	Airfoil reinfore bar	2			
4	body	1	8	Front / rear landing gear	Each 1			

## **Product paremeters**



• Item No. A600 (compatible FUTABA S-FHSS)

• Product colour: Orange

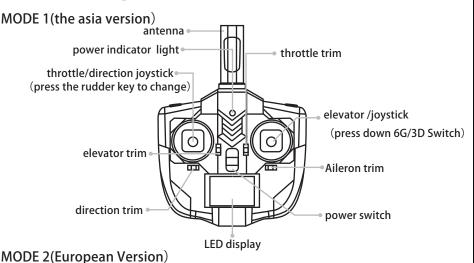
• Product description: system plane

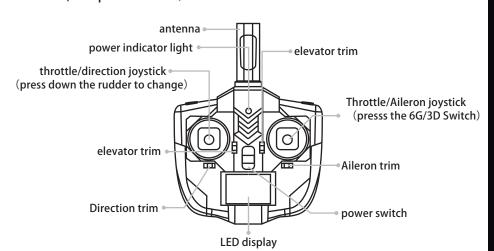
Product material: EPS

• Product size: Wingspan(580mm)length(434mm)

Product weight: 90g

# **Controller diagram**

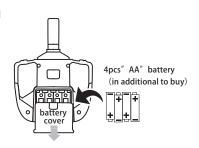




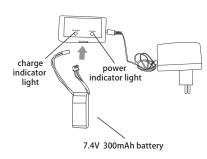
## **Transmitter battery installation**

Put the back of the battery cover down and out, and then install 4 pcs "AA" batteries according to the positive and negative direction correctly. finally, close the battery cover.

((Do not use different types of batteries.)



#### **Battery charging**



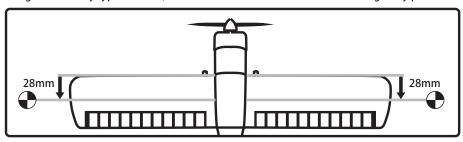
- 1. The power adapter connected with lipo charger.
- 2. And then put the charger into AC socket, at the same time the indicator lamp of lipo charger (green light) lights.
- 3. Put battery plug into charger, the indicator lamp (red light) lights, The The battery is saturated after lights out.

#### Warns:

- 1. In order to ensure the safety, please charge with person.
- 2. Children can not charge alone, to be in charge of adult assistance.
- 3. Please use the original standard charger for charging, pls don't use the charger which one not make from our factory in order to cause explosion.

## The center gravity position of the plane

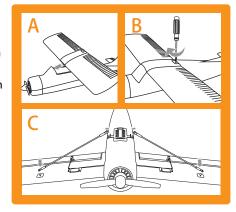
The central position of the plane at the leading edge of the wing back about 28mm, battery replacement or position change will affect the plane gravity position, influence of flight, change the battery type Number, Pls confirm that does not influence of the gravity position.



## Wing mounting:

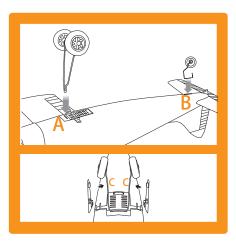
body interface.

Simulated helicopter wing joint according to shown in "A" into the interface on the body and fix in place. Use a screwdriver to screw according to the diagram shown in "B" clockwise rotation the wing. Then the wing reinforcing bar according to the diagram shown in "C" installed in the wing and



## Landing gear installation

Front Landing gear put into head at the bottom of the interface as shown A.And then back landing gear Installed in the tail bottom interface as shown. B.At last Install the front landing of Two pieces of component into Front landing gear Support bar.



# Perparation before flight



At first turn on the controller, Make sure throttle joystick is on the bottom position.



Open the battery cover, The battery connector in connection with battery cover connector as picture B Shown.



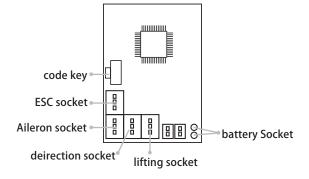
After connecting the battery, the battery install into the battery groove, And then close the battery cover as picture "C" Shown. When gyro Self-inspection finish. It can be flight.

#### Binding code of Transmitter and receiver

You buy the model before leaving the factory has been to code completion, if need to re-code, please according to the following steps:

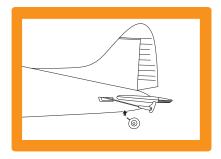
- At first Open the Transmitter power switch
- 2. Put battery into simulated plane, the red light on the receiver will be lights, Press the button of the receiver code about 1 second, the red light of receiver will be go out. When the red light of receiver and blue light of signal light always on, to complete the code.
- When binding pls avoid to open same type same frequency Transmitter surround. In order to effect binding. This product is compatible with FUTABA S-FHSS. Can compatible with FUTABA S-FHSS Controller on the market.

## Receiver plugs introduction



#### Rudder adjustment of plane

- Put into battery for the plane, Aileron/lift Rudder Vertical rudder Should back to middle. If the rudder is not in the middle position, By hand rotation of the adjustment will be adjusted to the middle position of the rudder.
- The Motor can not start when you adjust the plane. Gyro in the state of close. Gyro in the situation of repairing, can not adjust surface correctly to the position of middle.
- Wire spin to the right to shorten the length of push-pull wire, left spin can be extend length of push-pull wire.



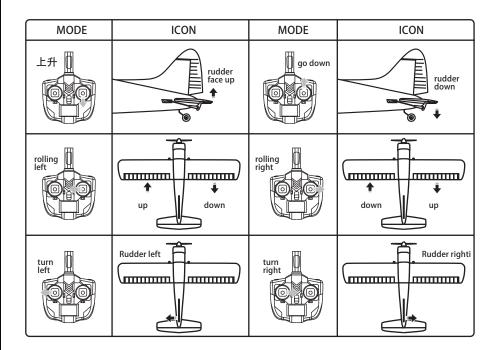
#### Note:

1. Adjust the steel wire of whole surface, The Transmitter must be close.

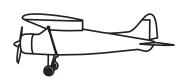
## Flying operation

Prohibited to flight before do not understand the control method of this plane. Pls read this Instruction and come to understand until your finger can control the Transmitter correctly.

- 1. Put the model in an open place, and the tail of model face to yourself.
- 2. Pratice operate the joystick of controller (operate as follows), And repeatedly practice throttle high / low, left / right aileron, Rudder forward/backward and rudder left /right.
- 3. simulation flight exercises is very important, please repeat do exercise until skillful, The finger can control the plane naturally when orders.



## Take off on the ground



placed on a level surface

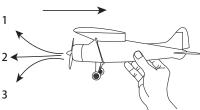
- 1.The plane facing the windward on the Ground, Confirm each Rudder back to middle again,The rudder direction is correct or not.
- 2.To make sure the above steps is no problem , Push the sliding throttle rocker gradually increased to 100%, and then Lift and pulled up/down rocker, the plane leave the ground .

#### Note:

- 1.choose a relatively flat ground.
- 2.Throttle accelerate Slowly, Make the plane keep sliding distance to reach the takeoff speed.
- 3.Up / down rocker assisted take off, Tie Too many may lead to the appeared to spiral lost.

#### Throw off

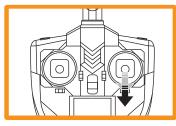
- 1.Throwing error method
- 2.Correct throwing method
- 3.Throwing error method



To ensure all the rudder is back in the middle or not.
100%,The throttle rocker push to 100%.

Facing the wind throw the plane and according to the flight situation to repair in time.

#### Landing



Pls land immediately when the you feel the plane lack of power. First of all, the plane flew to windward area adjust the head and upwind landing. Pull down throttle and reduce the flight speed. The plane will slowly slider down. Until the plane touches the grounp. Then the throttle to the lowest position. In the process of slide should be adjusted according to the plane flight attitude .Keep the plane glide smoothly.

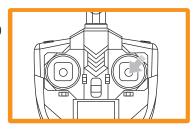
#### Note:

In the process of gliding if the air route deviation can make the rudder correction. When the wind is too large to control the plane in the downwind distance. To avoid unnecessary loss caused by the wind is too large. Must be landing when the power of plane is came down. Don't put the battery run out. If landing not good must be need flight again and keep a little power. At First, open the Transmitter. put battery into the plane, The plane on the ground or table.

#### 3D/6G Transform

1.Turn on is for 6G Mode. By pressing the aileron joystick one second and change to 3D(Locking type) 2.3D mode flight.when plane in any position ,By pressing Aileron joystick change to 6G mode.Plane will be get back to the stable position.

3.6G Mode suitable for the begineer,3D mode can do stunt.



## **Gyro calibration**

gyro will be change accompany with the temperature and accumulation error, Caused deviation in flight. Advise you adjust again and Reset gyroscope.

- 1.At First, open the Transmitter. put battery into the plane, The plane on the ground or table.
- 2.At the same time, put the left joystick and right joystick to the left corner and right corner.
- 3.At this moment ,the signal red light of the plane will be flashing and then blue flashing twice,when the signal light of red and blue light long time.gyro Complete zero calibration.



## Flight finish



End of flight, pls bring down the batteries.

#### warn:

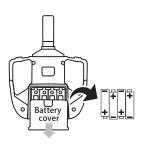
If the battery not removed will be cause Excessive battery discharge and damage, Even cause fire.

## Turn off the power of Transmitter

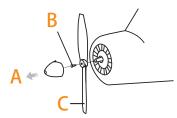
When you turn off the power of Transmitter, and long time not play it, pls bring down the battery and keep it.

#### Warns:

If the battery not removed will be cause Excessive battery discharge and damage, Even cause fire.

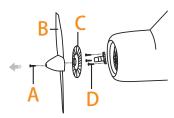


# Wing replacement



- 1. Pull up the blade as the picture (A) shown.
- 2. Use the screwdriver rushed out the screw which are fixed on the blade As picture (B) shown.
- 3. Bring out the blade from the center of motor as(C) shown.

# Blade hoop replacement



- 1. Use the screwdriver rushed out the screw which are fixed on the blade As picture (A) shown.
- 2. Bring out the blade from the center of motor as (B) shown.
- 3.The paddle hoop cover is taken off, and then screw out 3 screws with a screwdriver blade hoop, then paddle hoop, to replace the new paddle hoop.(C-D)

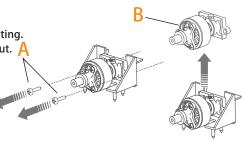
# Motor replacement

1. Remove 2 pcs screw from firewall by twisting.

2. The motor one the firewall tried to pull out. A

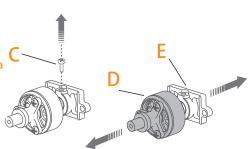
3. Remove the screw which one on motor by twisting.

4.Separate motor with fixed plate, re-placement the new motor.



#### Note:

The plane after using. Motor will be catch a high temperature, before it's not cool, please do not touch and change motors, in order to avoid burns.



# How to eliminate abnormity

The status	reason	countermeasure	
When the flight signal light flash, control No reaction	Transmitter and plane code binding is not successful	Binding again as the code bind steps according to the warns in page sixth	
Plane do not start after power on The gyro motor starts to work	When the plane with battery, the throttle	Make the throttle rocker in the right position put throttle trim return to the middle point and put battery	
After the plane in battery, The throttle is not working. signal light is normal, Steering gear is working properly	When the battery power is low, the ESC into shutdOff protection	charge the battery or replace the battery which with full power	

The status	reason	countermeasure	
Push the motor but motor did not start properly, motor in turn.	Motor and ESC bad contact or motor break down.	Motor socket connecting or change motor.	
The motor socket connection and replace motor rocker control individual servo will be appear rudder-blocked.	Motor gear appear less teeth.	Replace the motor with problem.	
Vibration when the motor run at it.	Blade transformation ,blade hoop and motor position is not firm or blade hoop fracture.	Replacing the Blade and blade hoop which are with problem. The blade hoops fixed firmly, Motor need to be fixed.	
The model flying yaw, can not flight straight	Blade transformation ,blade hoop and motor position is not firm or blade hoop fracture. Motor fixing seat loose.	1.The rudder in the back. 2.Gyroscope Zero Adjustment	
When flying ,gyro no working,can not repair	gyro out of order	need to replace the receiver	
When plane landed or throttle joystick on the bottom position, motor is still working	Because when flying you make the throttle trim too high	Pls make a adjustment to the throttle trim to the middle point	

