



X350

AIR DANCER



INSTRUCTION MANUAL

COMPATIBLE WITH FUTABA S-FHSS SYSTEM

www.xk-innovations.com

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PACKING DETAILS

No.	Spare Parts Name	No.	Spare Parts Name
1	Gift box	6	Lipo battery
2	Inner box	7	Charger
3	Manual	8	Power Adaptor
4	Body	9	Spare parts parcel
5	TX		

NOTICE

XK company has the rights to change related files of this product. Updating info, please visit our website, <http://www.xk-innovations.com>

WARNING

Pls read this manual firstly before operation. Wrong operation might cause problems for products or your safety. This is a very complex aero model, not a toy. Not only needs careful operation, but also needs very good 3D flying experience. Children is forbidden to operate this product. This manual includes safety, operation, and maintenance. Pls read this manual carefully before operation. To avoid any damage, pls follow this manual strictly.

SAFETY PRECAUTIONS

- 1.Age: it is not suitable for younger than 14, it is not a toy.
- 2.Space: always operate it in a very open space, and far away from vehicle and person.
- 3.Pls strictly follow the operation manual and select the supported device.
- 4.All the chemicals, small parts and electric device should be away from children.
- 5.Be away from water and water steam.
- 6.Pls don't put any parts into mouth, which might cause severe injury and even death.
- 7.Pls don't operate it under low voltage battery status.

SUMMARY

With flybarless, collective pitch, 3D and 6G mode, this is a very classic 350 level 3D quadcopter. Perfect combine with 3D and 6G mode, makes it has normal quadcopter stabilization and flybarless 3D flexibility. 6G gesture mode, is very suitable for beginner to fly. 3D mode, is very flexible for pilots to do many good 3D aerobatics, such as reversing flying around a front or back point, hurricane, hopper and chaos, which normal quadcopter can not do.

PRODUCT PARAMETERS

Wheel base: 376mm	Blade Diameter: 204mm
Product Height: 210mm	Flying time: 9 minutes
Brushless motor: 2212 1400KV	
Battery: 11.1V 2200mah 50C	

BATTERY USAGE



There is a charger inside the box, which can charge the lipo battery safely.

Cautions:

Pls comply with all the notice and warning. Wrong operation will cause,

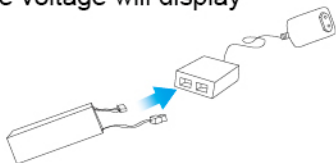
- 1.Resulting in a fire.
- 2.All the risk of battery is at your side.
- 3.Pl's stop to use expansion battery.
- 4.Store the battery in dry and normal temperature conditions.
- 5.Pl's store the battery during temperature 10F-120 F. Don't put it into the quadcopter and under direct solar radiation.
- 6.Don't use other charger, especially for Ni-Cb or Ni-mh charger, to charge our lipo battery, otherwise it will result in a fire.
- 7.Do operate when low voltage.
- 8.When lower than 10V, lipo battery might be damaged and can't be charged; Pl's change battery immediately when it is lower than 10V.

Warning:

Pl's charge the lipo battery using our original charger, otherwise it would cause fire.

LIPO BATTERY CHARGING

1. Connect power adaptor with charger; connect the power adaptor with the power supply. Then LED is light on the power adaptor and LCD of charger display "---", means power on.
2. Insert the lipo battery into 3S slot on the charger, then "didi" sounds from the charger, means charging successfully. The voltage will display continually on the charger LCD.
3. When reach full charge, charger will send "didi" sounds, and display FUL on the LCD.



CAUTIONS BEFORE FLYING

1. Make sure full power of TX and Lipo battery.
2. Make sure Throttle stick at the bottom, TH. Hold button and 3D button on the back, before power on the TX.
3. Make sure binding successfully for TX and quadcopter. Pls re binding if have problems.
4. Open TX firstly, then connect the battery with RX to bind. Power off, pls remove lipo battery firstly, then turn off the TX.
5. Find a open space, away from person, car, tower, pool etc., to start flying.

TX AND RX BINDING






Original from factory is already successfully binding. If you need recoding, pls do as following,

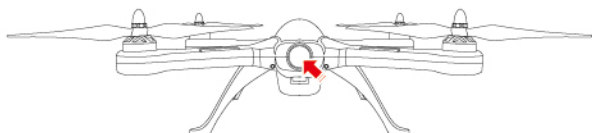
1. Open TX, make sure the throttle stick at the bottom, 3D and IDEL button on "OFF" position
2. Open the lipo battery cover, to make sure you can be easy to touch the binding button on the RX.
3. Power on the quadcopter firstly, then the red and yellow LED on the quadcopter will flash fast. Press RX binding button for 1s, then the indicators will be off to enter binding status.
4. LED indicators on the RX are always on, then binding finish. Special notice: Green LED always on is 6G mode; Red Led always on is 3D mode.





Cautions:

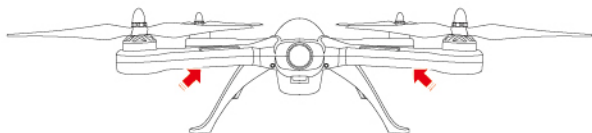
When throttle button is not at the bottom, T.H HOLD button and 3D button is on, TX will send "didi" sound, TX and RX can not bind.

LED INDICATORS

- | | | |
|---|--|---|
| 1. Normal state for 6G mode | Tail green LED always on |  |
| 2. Normal state for 3D mode | Tail red LED always on |  |
| 3. Lipo battery voltage is lower than 10.4V | Red LED slow flash |  |
| 4. TX no signal | Tail yellow LED always on |  |
| 5. Binding | Tail indicators is off firstly, then Green LED always on is 6G mode,
Red LED always on is 3D mode |  |



- | | | |
|------------------------|---|---|
| 1. Gyro calibration | Foursquare navigation LED change from fast flash to always on, means calibration finish |   |
| 2. 6G hovering setting | Foursquare navigation LED change from slow flash to always on, means calibration finish |   |



LANDING SKIDS INSTALLATION

1. Insert the landing skids into the slot as Figure 1.
2. Use hexagonal wrench to fix CM3*8 screws as Figure 2.

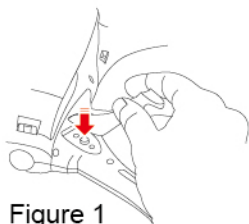


Figure 1

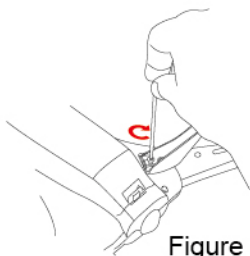
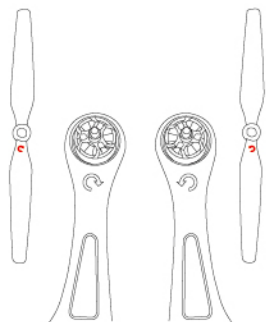


Figure 2

PROPELLER INSTALLATION

1. Take off the hoop, put on the propeller, fix the propeller by hoop.
2. Use hand or wrench to fix motor, then insert the 2.5mm round rod into the hole of hoop, rotate the rod tighten or loosen the hoop.



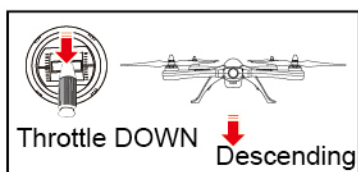
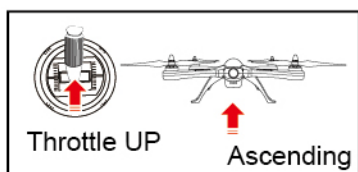
Notice:

The arrows on the propeller should be the same as the motor arrows, otherwise, it can not fly.

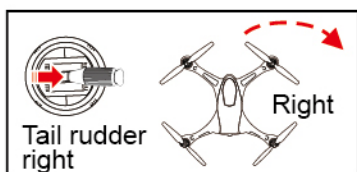
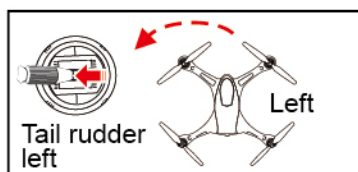
FLYING OPERATION DIAGRAM

If you are not familiar this product, pls take a little time to study before flying.

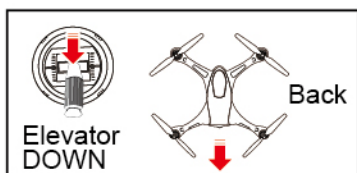
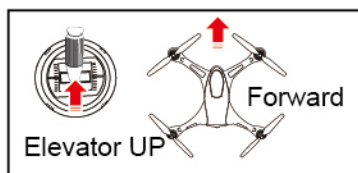
Throttle



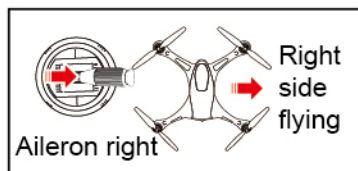
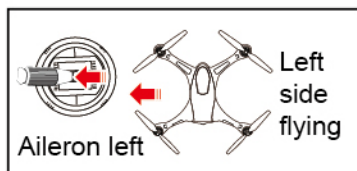
Direction



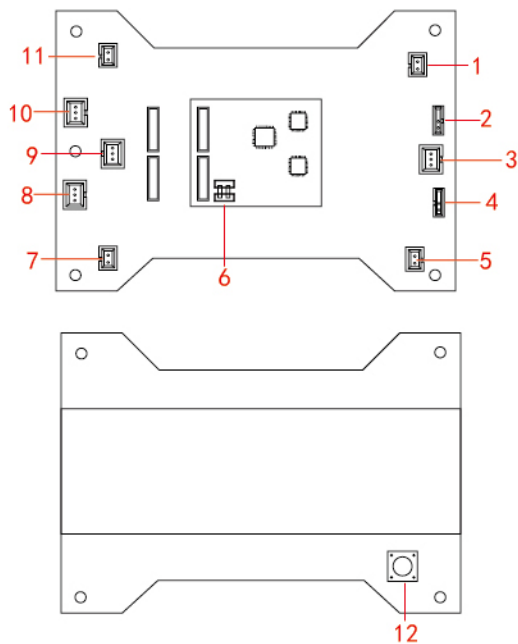
Elevator



Aileron



RX INTERFACE DIAGRAM



1.Front LED 1

2.Motor 1

3.Reserve(other satellite RX)

4.Motor 2

5.Front LED 2

6.Flight controller

7.Back LED 1

8.Motor 3

9.Status indicators

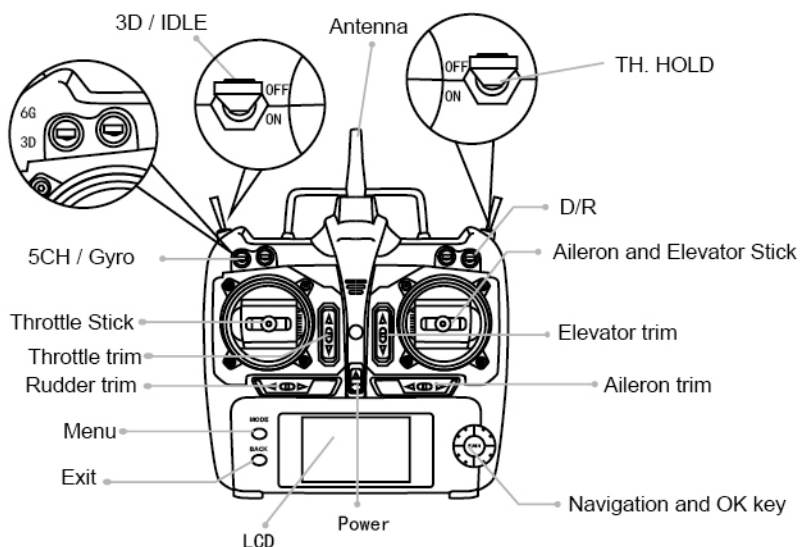
10.Motor 4

11.Back LED 2

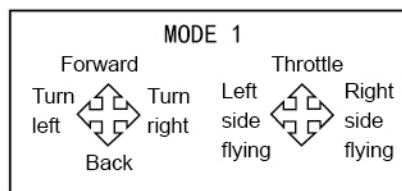
12.Binding button

TX FUNCTIONS INSTRUCTION

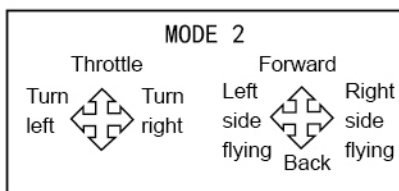
1. TX functions instruction



MODE 1

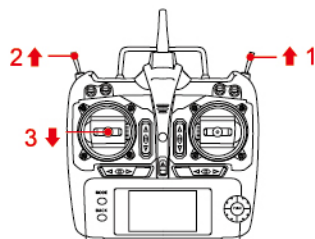


MODE 2



Note:

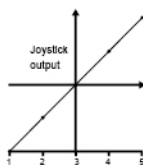
When throttle button is not at the bottom, T.H HOLD button and 3D button is on, TX will send "didi" sound, TX and RX can not bind. Pls make sure 1 2 3 button at the arrow position, before open TX.



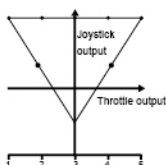
THROTTLE CURVE AND PITCH CURVE SETTING REFERENCE TABLE

Throttle curve	Position	Normal mode	3D mode
	1	0	95
	2	25	65
	3	45	30
	4	65	65
	5	85	95

Normal mode:

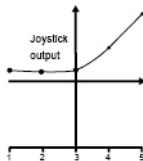


3D mode:

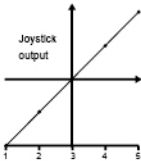


Pitch curve	Position	Normal mode	3D mode
	1	60	0
	2	60	25
	3	60	50
	4	75	75
	5	100	100

Normal mode:

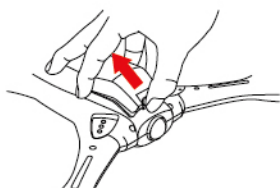


3D mode:

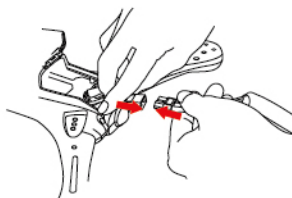


It is only for your reference. You can set it as your requirement.

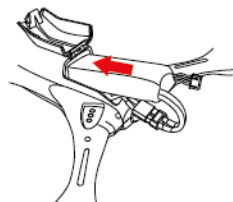
LIPO BATTERY REPLACEMENT AND CHARGING



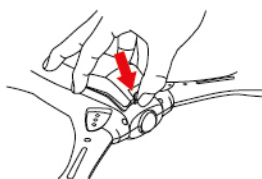
1. Open the cover as the arrow direction.



2. Connect the interface.



3. Put the battery into the body.

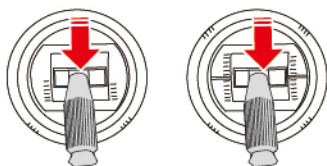


4. Close the cover.

6G HOVERING SETTING

6G hovering is perfect before leaving the factory. If something wrong, please reset it as following,

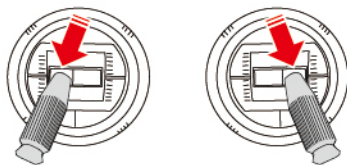
- 1.Open TX, to make sure 6G button "ON".
- 2.Power on quadcopter to wait till gyro self-inspection finish, then pull throttle stick and elevator stick at the bottom position at the same time for 3 seconds. You will find foursquare navigation LED flash.
- 3.Then push throttle stick to fly, to make it hover by two joysticks. When hovering, land the quadcopter slowly.
- 4.Pull throttle stick and elevator stick at the bottom position at the same time for 3 seconds, to save hovering data. You can enjoy hovering fly after foursquare navigation LED always on.



GYRO CALIBRATION

Temperature change and accumulated error of Gyro can result in yawing of quadcopter. Calibrating gyro is good for stable flying.

- 1)Make sure 6G button "ON", throttle stick at the bottom. Then open TX and install Lipo battery, Gyro self detection finished when RX indicator long light.
- 2)Pull the two sticks as the diagram for 3-4 seconds, then foursquare navigation LED will fast flash.
- 3)Loose two sticks, wait till foursquare navigation LED always on. Then gyro calibration finish.



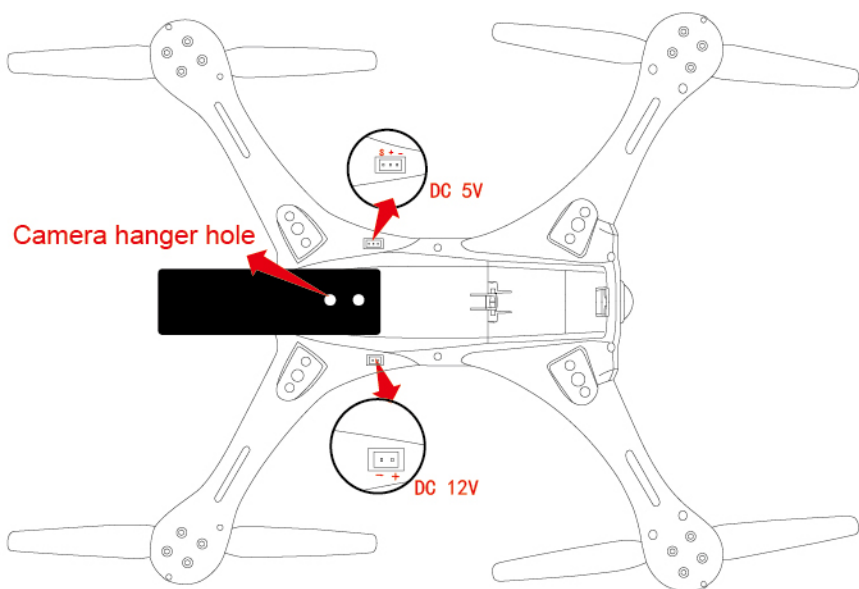
AERIAL PHOTO AND FPV EXTENDING

Instruction:

You can hang your camera and FPV to take photo or race across.

1.Hang the camera and fix it on the body as picture.

There are two kinds of power supply for your choice, DC 12V and DC 5V.



Notice for beginners:

- 1.If it is your first time to fly, please follow an experienced pilots.
- 2.Please be familiar with all the functions of TX and the related sticks before fly.
- 3.Please do don't do 3D fly if you are not familiar with 6G fly.
- 4.6CH quadcopter is not a toy. To avoid unnecessary loss, please simulate to fly on the computer firstly.

SPARE PARTS LIST



XK. 2. X350. 001
Up cover



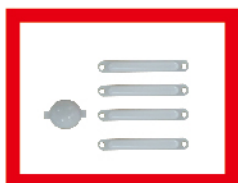
XK. 2. X350. 002
Down cover



XK. 2. X350. 003
Landing skids



XK. 2. X350. 004
Propellers



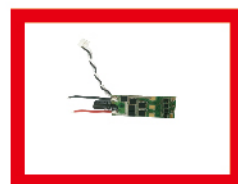
XK. 2. X350. 005
Lamp cover



XK. 2. X350. 006
CW motor



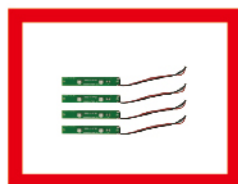
XK. 2. X350. 007
CCW moto



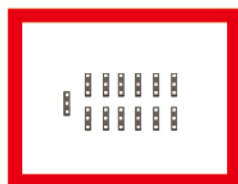
XK. 2. X350. 008
ESC



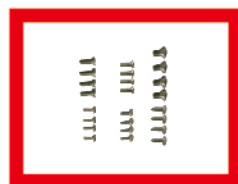
XK. 2. X350. 009
Tail LED



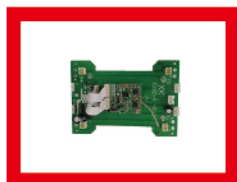
XK. 2. X350. 010
LED light bar



XK. 2. X350. 011
Canopy locate parts



XK. 2. X350. 012
Screw



XK. 2. X350. 013
PCB



XK. 2. X350. 014
Lipo battery



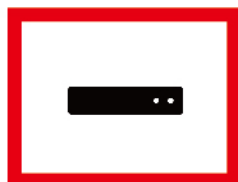
V. 2. 303. 024
Charger and
power adaptor



XK. 2. X6. 001
TX



XK. 2. 380. 016
Glue



XK. 2. 380. 017
Camera Fixing board



XK. 2. X350. 018
Screw



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Email: sales@xk-innovations.com