# D800-X8
## User Manual

[V1.0]    2015.07

## Brief introduction

D800-X8 is a professional aerial photography multicopter. It features portable , easy-to-use, friendly operate, safety and stability. Simplify the installation and calibration with highly integrated design. Retractable landing gear, fast disconnect arm and propeller give the users superior experience, catch-all aerial views and high quality shooting.

# Disclaimer

Thanks for purchasing DYS D800-X8.

Please read this manual carefully before using the product. By using this product, you hereby agree to this disclaimer and signify that you have read it in full.

Please install and use the multicopter as per this manual strictly. As DYS has no control over use, setup, final assembly, modification (including use other parts such as motor, ESC, propeller etc),no ability shall be assumed nor accepted for any resulting damage or injury.

As it may cause wireless interference in the living environment, please take effective measures to avoid it.

Any parts of this manual is subject to change without prior notice.

Any problems while mounting this copter, please contact with us or our authorised agent.

# Warnings

It is dangerous while the propeller spinning at high speed. Please be caution while using the D800-X8.

## Installation notes

1. Please use bracket to mount GPS to avoid power board of center frame disturbing its working.
2. Please keep the IMU direction same with copter nose.
3. Strongly suggest that the receiver antennas face down and without blocking to prevent out of control from blocking wireless signal.
4. Please mount the arms accordingly.
a) Arm CCW --- Center frame CCW
b) Arm CW --- Center frame CW
5. Please do not screw out the installed screws( with screw glue) to avoid damage.
6. Please screw up the screws properly; The screw surface with blue gel is disposable screw glue, no need to use other screw glue for first use. Otherwise, place a little screw glue.

## Flight notes

1. Please do not flight in rain or snow, as the ESC do not process with rain-proof.
2. Please check all the parts works properly or not before flight. Please do not flight when some parts aged or damaged.
3. Please check ensure the propellers and arms mount properly, and foldable prop is unfold before flight.
4. Please ensure the ESC signal wire and power cable are connected well before flight.
5. Please keep away from dangerous such as barrier, crowd, children, building, high tension line, tree shield, water etc.
6. Please power on with 6S Lipo battery.
7. please ensure the output signal work properly, While use with flight control system .
8. Please fly it within the take-off weight.
9. Please do not close or touch the spinning motors or propellers.
10. Please remove the battery and camera when not in use and transportation.
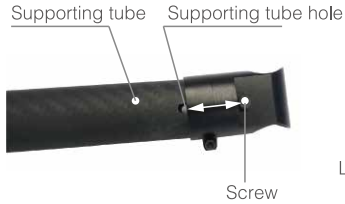11. Please use the multicopter with the equipped accessories.

# Box list

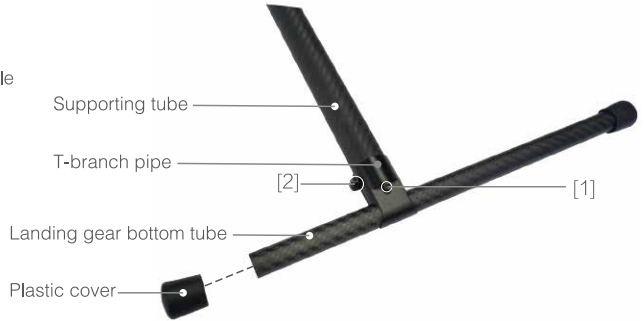| Center frame  ×1 | Arm ×4 |
|---|---|
| | ×2<br>×2 |
| **Landing gear bottom tube×2** | **Landing gear supporting tube×2** |
| | |
| **T-branch pipe with screws    x2** | **Propeller lid   ×8** |
| | |
| **Propeller   CW  x4       CCW x4** | **Gasket ×4** |
| | |
| **Tube stopper  ×4** | **Plastic cover x4** |
| | |
| **Arm lock   x10** | **Screw bag** |
| | M2.5X6      10 pcs<br>M3X6        10 pcs<br>M3X8         20 pcs<br>M2.5X8      10 pcs |

# Landing gear installation

**1. T-branch pipe connection**

a. Insert the supporting tube into T-branch pipe screw hole ( see pic 1);

b. Insert the bottom tube into T-branch pipe and place the pipe to the center;

c. Screw up the screws as [1] and [2];

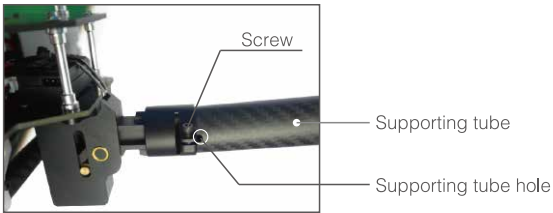d. Mount the bottom tube ends with plastic cover.

Supporting tube    Supporting tube hole

Supporting tube

T-branch pipe

[2]                    [1]

Landing gear bottom tube

Screw

Plastic cover

Pic 1                                        Pic 2

**2. Connection Supporting tube with center frame**

a. Insert the supporting tube into center frame screw hole;

b. Screw up screw.

Screw

Supporting tube

Supporting tube hole

# Frame installation

**1. Propeller installation**

a. Mount the CW prop on CW arm, CCW prop on CCW arm;

b. Fix the prop on the motor with prop cover and screw M3x8.
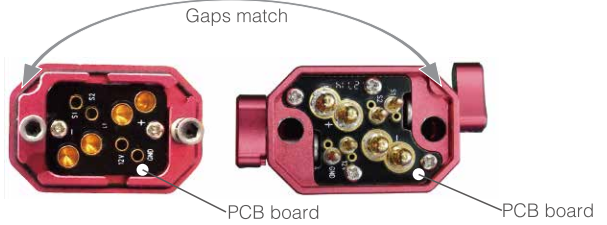
Screw M3x8

Prop cover

ccw prop

**2. Arm inspection**

a. Make sure the propeller without any damage and the prop cover screw fixed firmly enough.

b. Make sure the motor mounted firmly and spin properly.

c. Red arm is the front side of the copter, please be attention while mounting.

**3. Connection arm with center frame**

Note: Please ensure the arm lock keep ON before mounting , and keep OFF after installation (as pic 1). Connection method for arm and main board: S1 match with S1, S2 match with S2, gaps match (as pic 2).



Gaps match

PCB board          PCB board

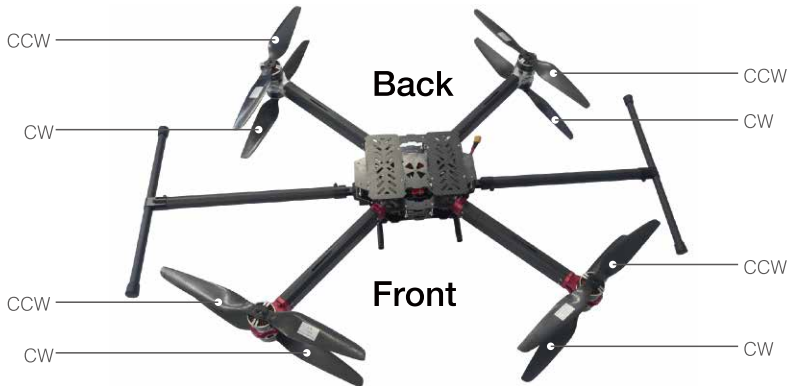Pic 1                              Pic 2

**Warning:** Please be more attention S1 and S2 port of both sides should be corresponding while reassembly the PCB board by yourself, otherwise it will burn the copter.

# Final aseembly



CCW

CCW

CW

CW

**Back**

CCW

CCW

CW

CW

**Front**

# Connection

Detailed connection method as below.