GLOBALFLY manual
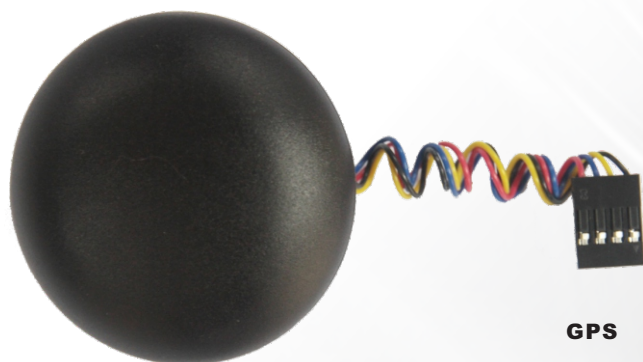

GPS

compass

SPECIALITIES:
Supports D-bus Receiver System
Multiple Control Modes
Intelligent Fail-safe
Loiter & Altitude Hold
Compass
Accel Calibration
Failsafe to the return home and landing
Auto go home &landing
Easy setup upgrade
External LED light
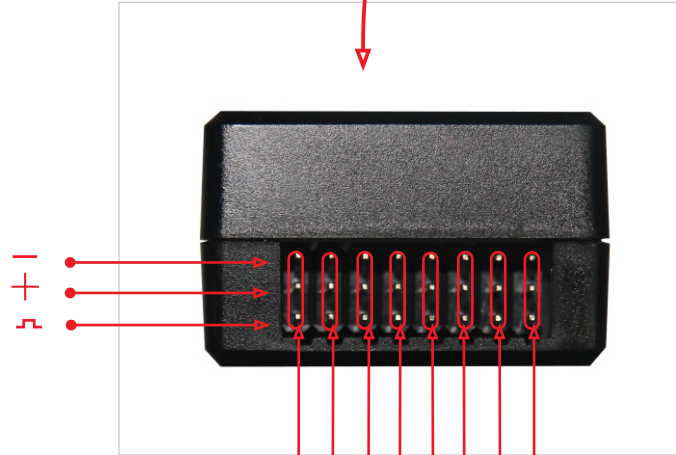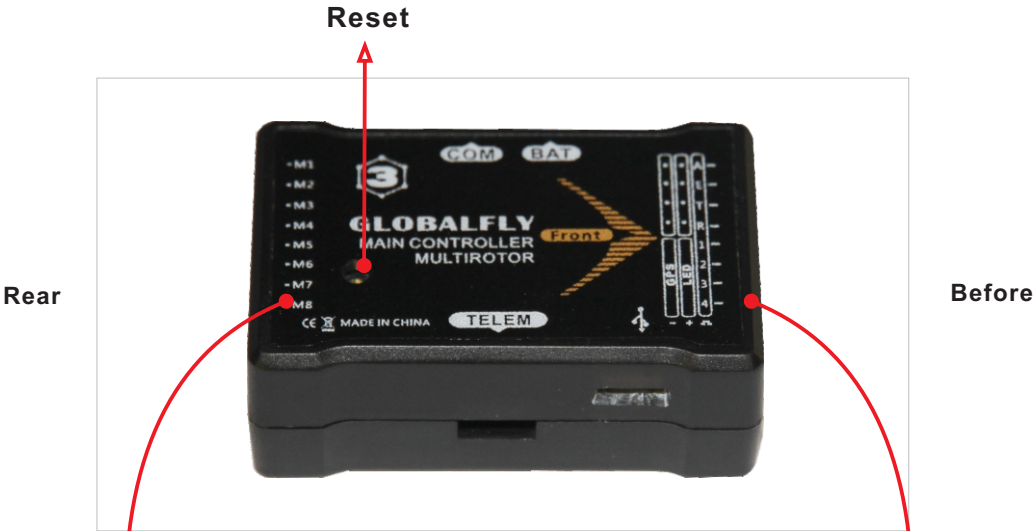USB upgrade system

GPS HOLD SYSTEM

COMPASS

Auto go home

External LED light

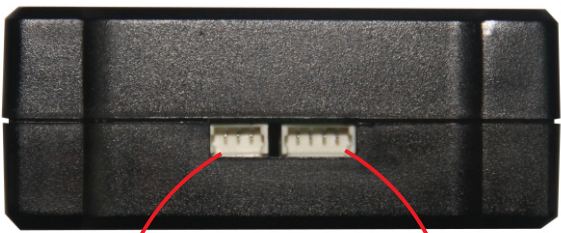External LED light

Connection for standard receiver

| compass port | 电压检测模块 | 数传接口 | USB |

Reset

Rear

GLOBALFLY
MAIN CONTROLLER
MULTIROTOR Front

3 COM BAT

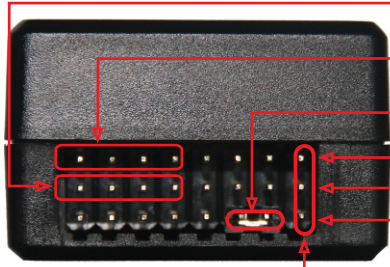M1 M2 M3 M4 M5 M6 M7 M8

MADE IN CHINA TELEM

Before

LED port

GPS port

Motor 1
Motor 2
Motor 3
Motor 4

Motor8
Motor 7
Motor 6
Motor 5

Aileron signal channel
Elevator signal channel
Throttle signal channel
Rudder signal channel
The fifth channel

磁场计   电压检测模块   数传接口   USB

Reset

Rear   Before

LED port

GPS port

连结两个针

PPM single-wire connection

Motor 1   Motor8

Motor 2   Motor 7

Motor 3   Motor 6

Motor 4   Motor 5

Rear

Before

compass

GPS port

−

+
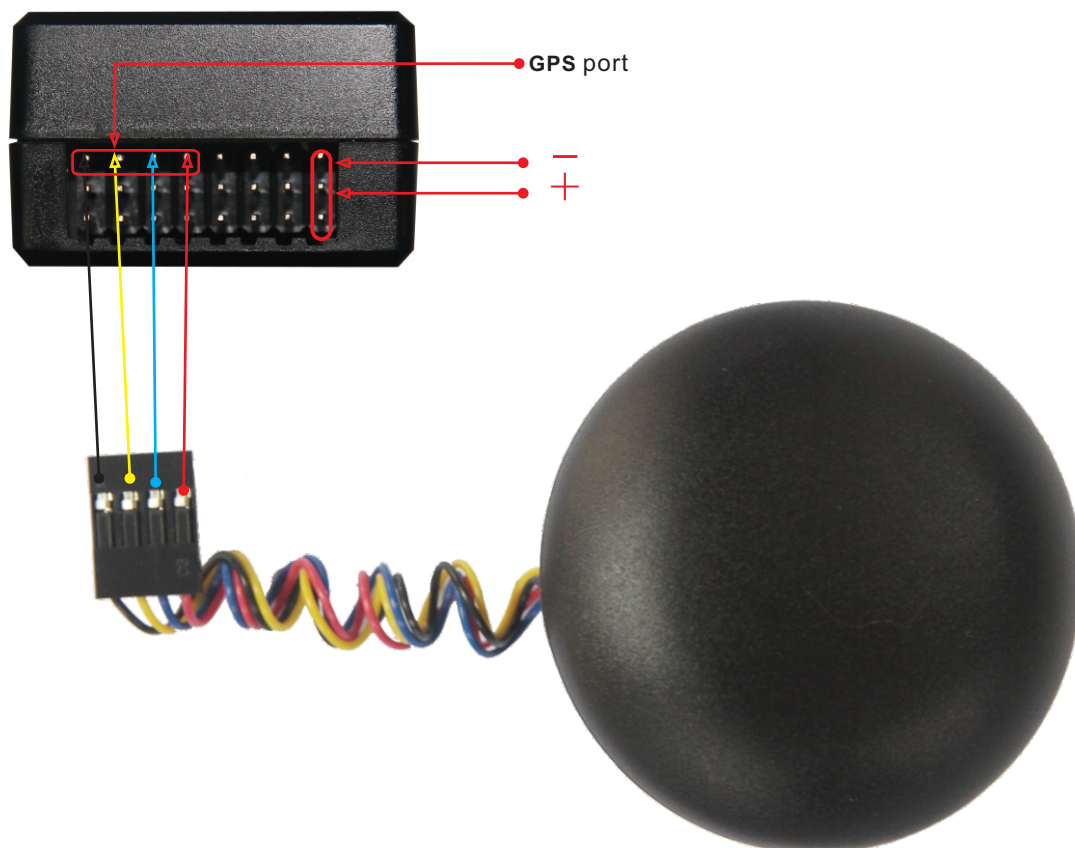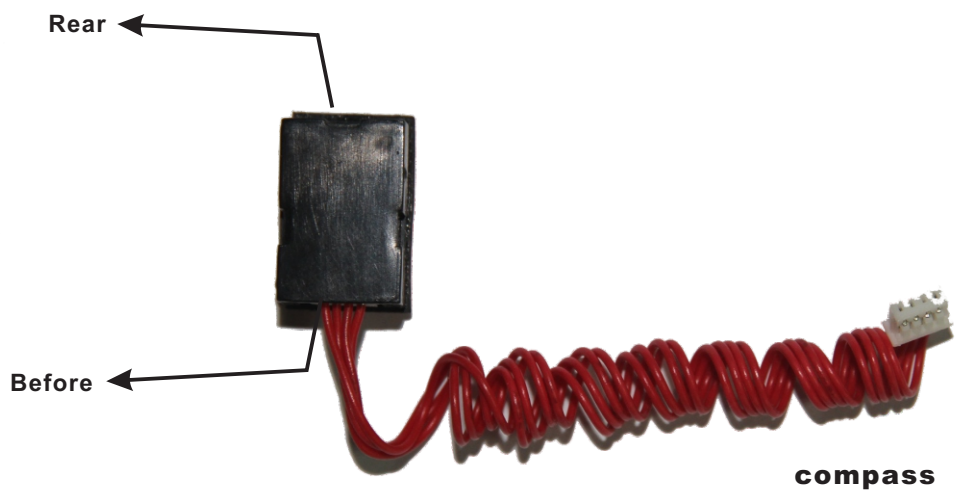
1. Download and install mission planner software.

在安装软件时，如果电脑出现安装错误（如下图所示），请点击是Y,电脑连网弹出下载网页，下载提示程序并安装，就可以继续正确安装了。
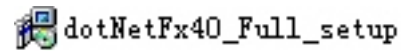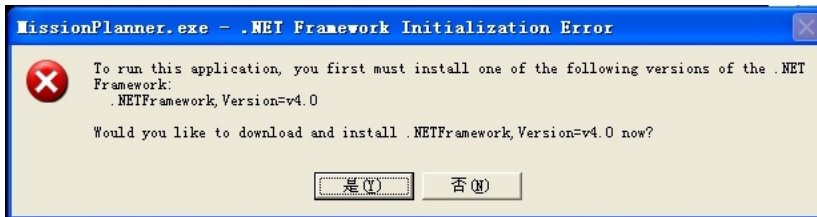
2. Connect controller box to computer via USB cable. And there has driver file on installation file folder of mission planner if necessary.
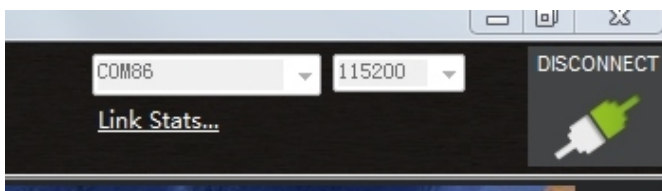
3. Open mission planner software

4. Choose the correct port 115200, and then click CONNECT button.

5. Mission planner will read the setting information of control box after connection.

6. 在initial setup页面,校准磁场计,加速计,遥控器。

7.Calibrate compass, accelerator and radio. The following steps are detailed process.

a)Calibrate accelerator. According to the software indication, Calibrate all six surfaces of controller box(the left and
 right sides, front and back, up and down) with pointing to the ground.

上壳往上平放

左侧，

右侧，

头往下，

Place APM on its LEFT side and
press an key

Place APM on its RICHT side and
press an key

Place APM nose DOWN and
press an key

头往上，

上壳往下平放

Place APM nose UP and
press an key

Place APM on its BACK side and
press an key

b) Calibrate compass. Each surface facing ground rotate 1-2 circles. Please note that the control box
 should keep in horizontal position while calibration.

c) Calibrate radio. Controller box can record the setting of MAX, MIN and neutral point of each channel after calibration. Please swing several circles in the MAX volume while calibration. Please note that the positive and reverse direction of radio channel need to be adjusted if necessary.
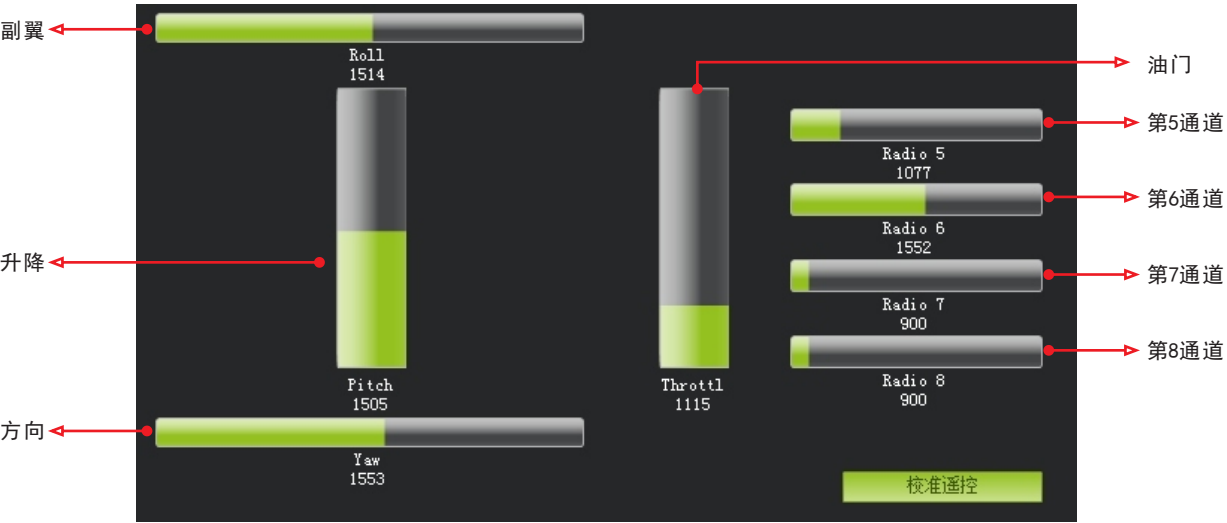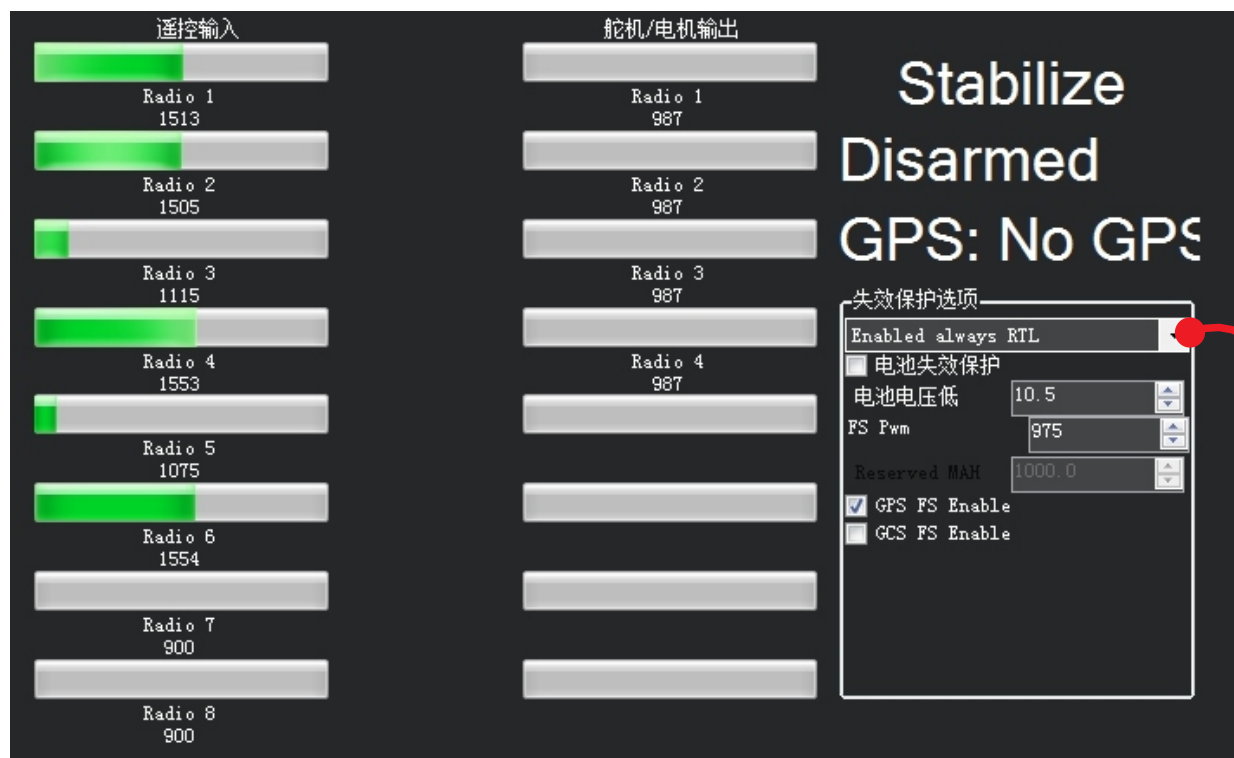

8. Set the fifth channel to control the flight mode switch. The fifth channel can output 6 status by mixing setting with the other channels. The following steps is the sequence of adjusting each flight mode: 1. Stabilize ,2. AltHold ,3. Loiter , 4. RTL ,5. Auto The next status can be safely adjusted after a stable debugging of previous status, and then save data after all settings have been finished.
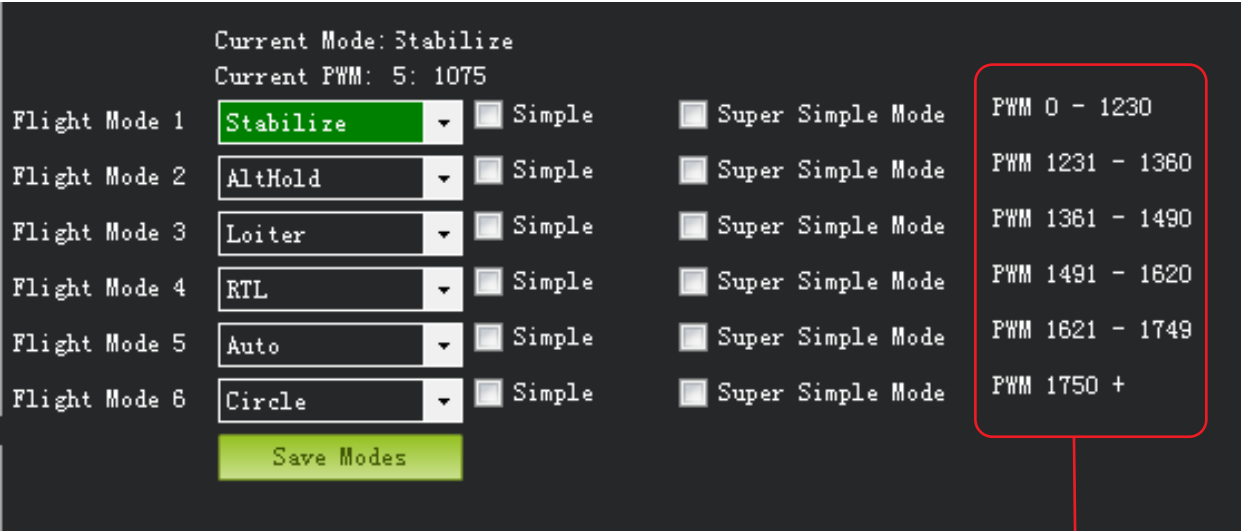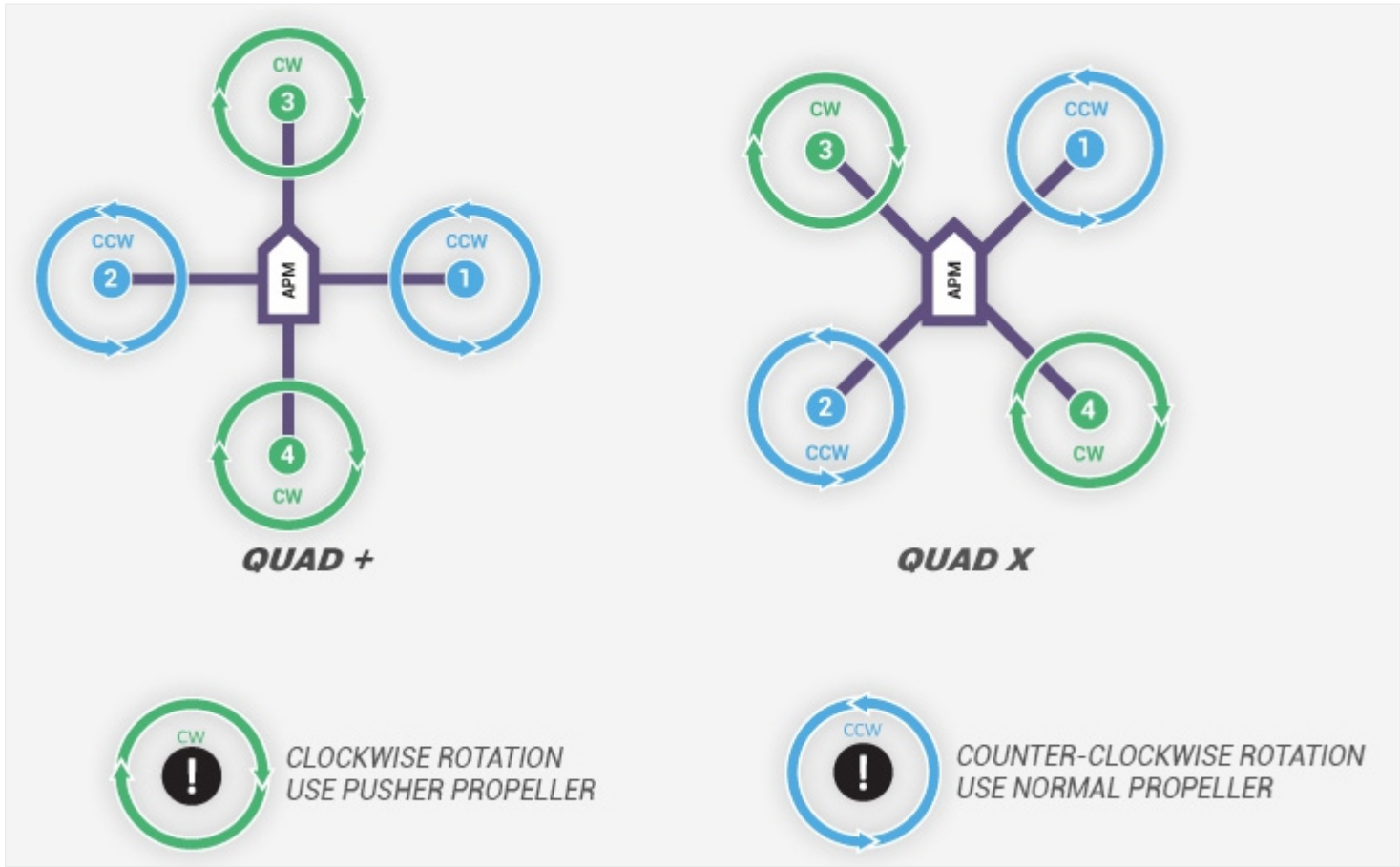

The data distribution range of the fifth channel.
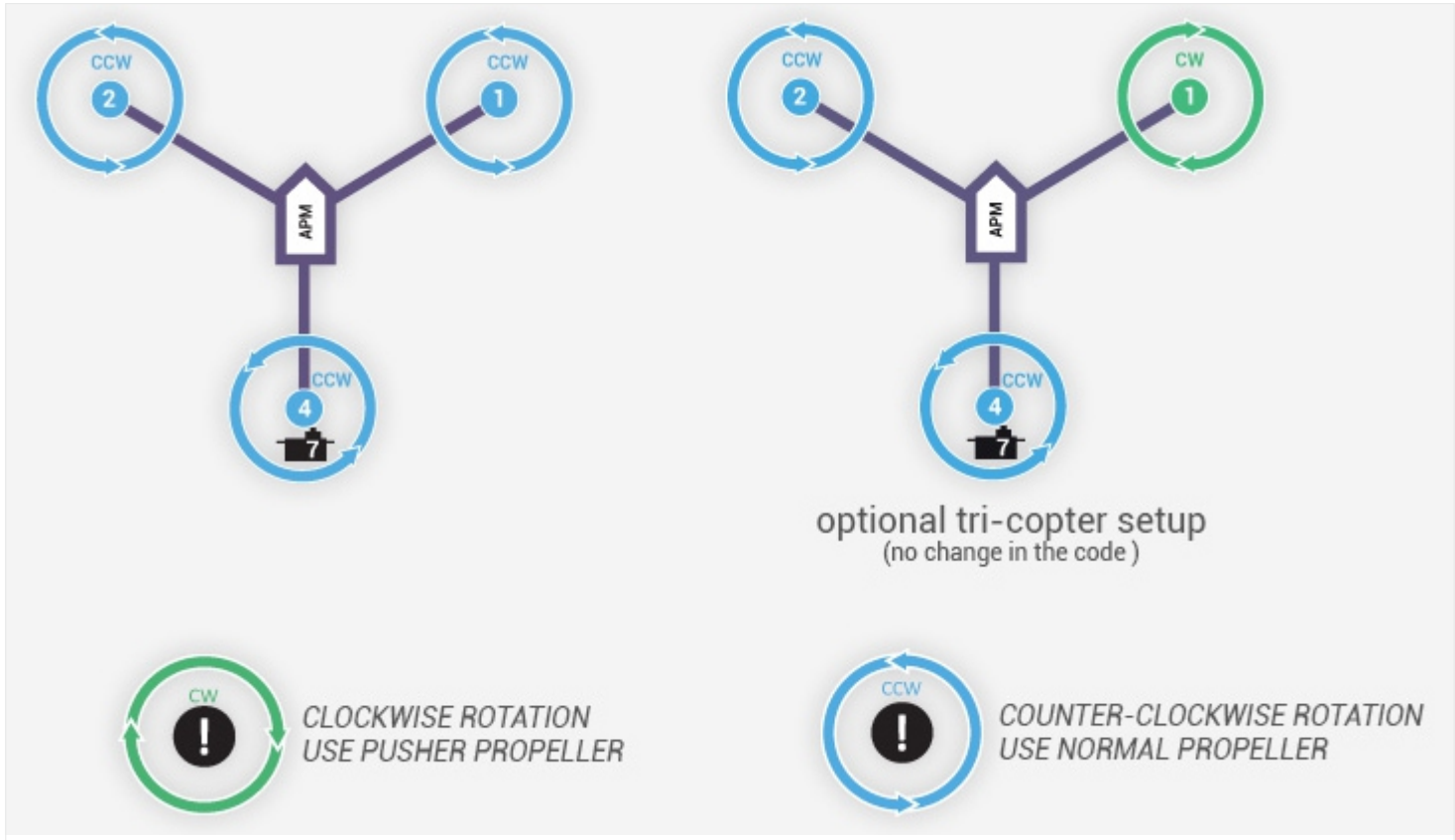
9.Failsafe option
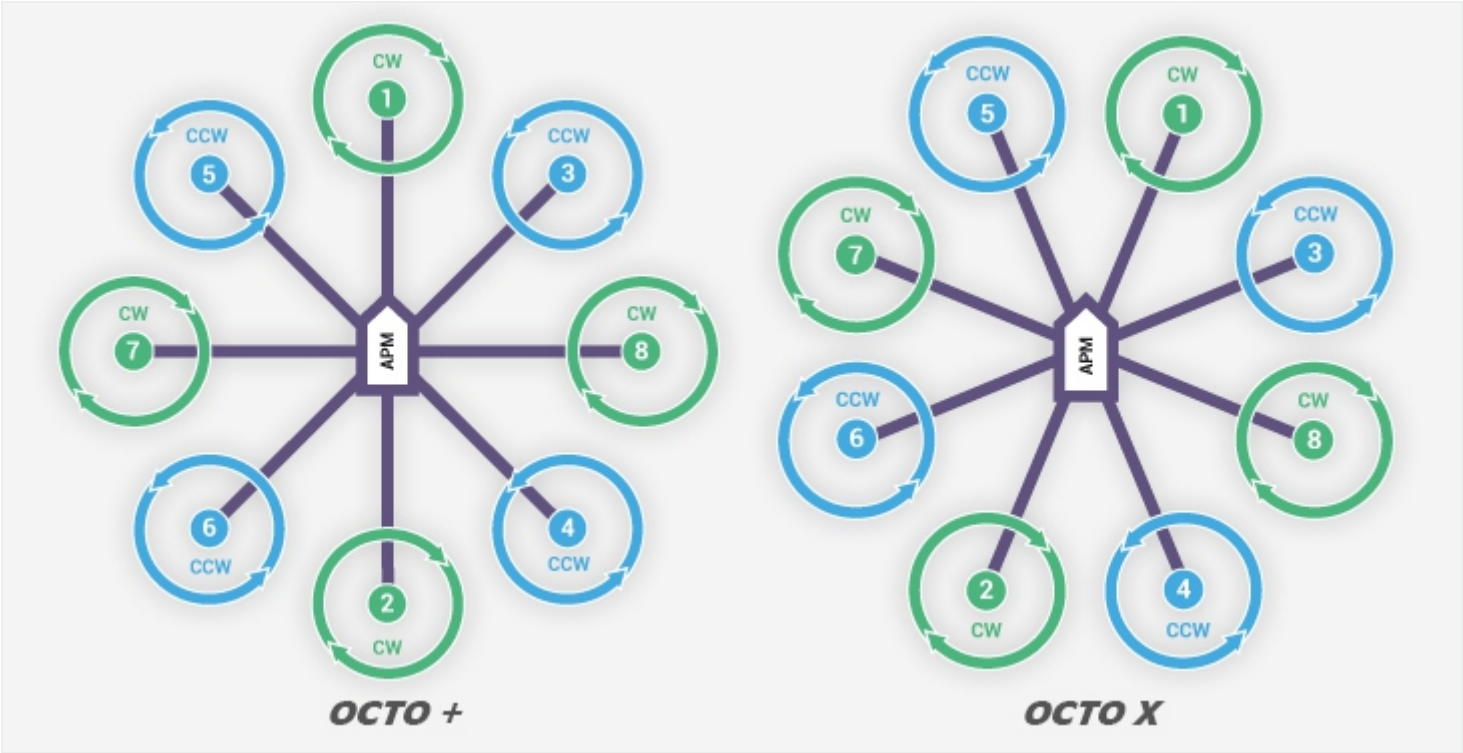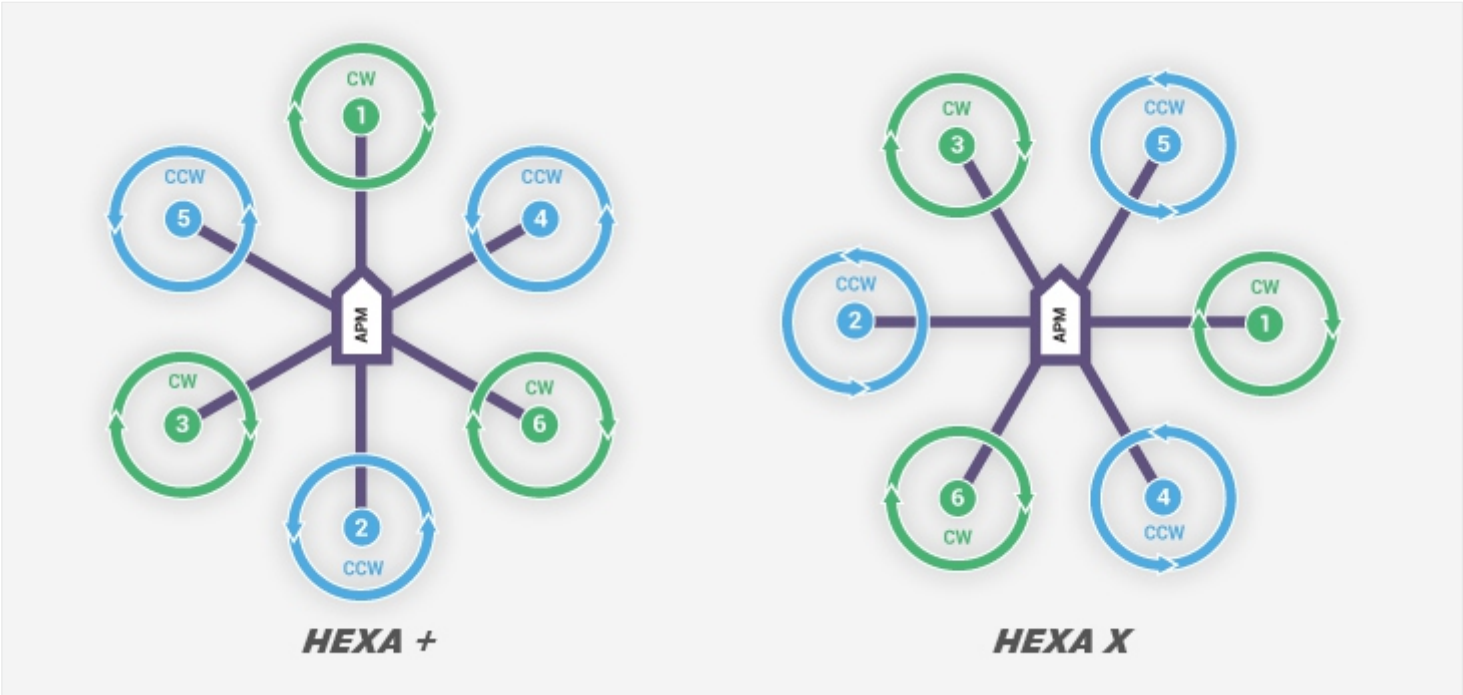
10.安装螺旋桨,需要参照下图安装并配置电机旋转方向

a)四轴

QUAD +

QUAD X

CW
CLOCKWISE ROTATION
USE PUSHER PROPELLER

CCW
COUNTER-CLOCKWISE ROTATION
USE NORMAL PROPELLER

b)三轴

optional tri-copter setup
(no change in the code)

CW
CLOCKWISE ROTATION
USE PUSHER PROPELLER

CCW
COUNTER-CLOCKWISE ROTATION
USE NORMAL PROPELLER

c)6轴

HEXA +

HEXA X

OCTO +

OCTO X

OCTA V

Y6

TOP

BOTTOM
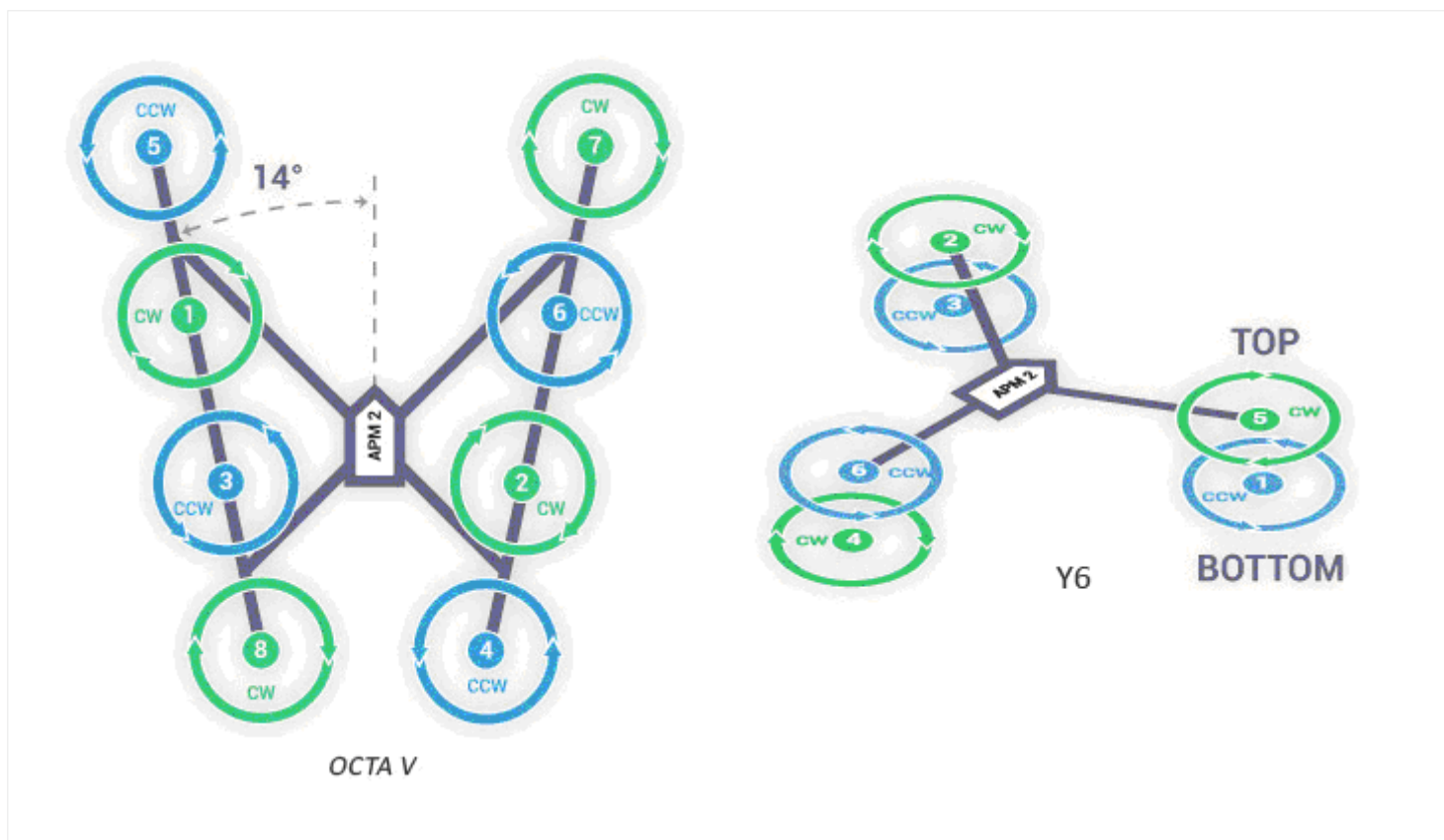
Set ESC throttle travel after the setting of motor rotation direction is finished, so that each ESC keep the same throttle travel. This setting can be done with single ESC calibration in turn, and also can use transmitter to calibration all ESC.(For safety, please do not install propeller while doing this action)