



USER MANUAL

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Thank you for choosing P2 Pro flight controller, hope you will have a good flight with P2 Pro. We strongly recommend you read this manual carefully before you install P2 Pro flight controller. The following instructions will help you to make your P2 Pro flight controller working perfectly.

Note: this manual shall be used together with the P2 Pro assistant software, if there is any discrepancy between this manual guide and the assistant software, the assistant software shall prevail.

If you meet any difficulty during the usage, please contact with JIYI Robotic Co. Ltd. at support@jiyiuav.com

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1. Disclaimer

First of all, thank you for using JIYI product. This is not a toy, please read the manual carefully before you use this product. Upon reading this, you're deemed to agree with the disclaimer, this products is not suitable for people aged below 18 years old.

This entry-level flight controller is specially designed by JIYI for multirotor hobbyists. Under the normal electric supply and instant condition, this controller can satisfy the leisure, FPV, Aerial photography usage. JIYI is always aiming high quality, reliable and stable products. As safety consideration, we strongly recommend you to remove the propeller during the configuration, ensure the wiring connection and electric supply are in place, and stay away from crowd, fragile and dangerous objects during the flight.

If any of below reason (not limited to below reason) occur during the use of our products, JIYI shall not be liable for any direct or indirect loss, damages and injuries that result from the usage of our products. JIYI shall only be responsible for flight controller damaged which is caused by the controller itself. JIYI shall not be liable for any other form of Liability and Compensation.

- 1. User do not follow the manual during the usage;
- 2. Weak structure of aircraft or damage on aircraft structure;
- 3. User using third party product which caused the abnormal flight;
- 4. User's wrong judgment or improper handling;
- 5. User intended to against others;

6. User continue with the flight even though knew that the product is function abnormally;

7. Flying under the condition of strong interference, radio interference and prohibited area or vision unclear or blocked or unable to judge and identify the flight condition;

8. Under bad weather condition or not suitable flight condition;

9. Abnormal working condition of flight controller where caused by user tearing or modifying the JIYI product and accessories;

10. Flight where user under drunk, drug abuse or any other unhealthy condition;

11. Any others products defects which is not caused by JIYI products.



2. Technical Terms and Abbreviations

| СН | Channel |
|------|-------------------------------------|
| FS | Fail Safe (Loss Control Protection) |
| JIYI | JIYI Robotics Co. Ltd. |

3. Packing List

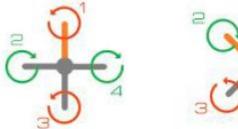
JIYI P2 Pro Flight controller x 1 GPS/ Compass Module x 1 GPS Stand x 1 LED/USB Module x1 POW Module x1 Servo wire x6 USB Cable (Micro-USB) x1 Some 3M adhesive

4. Installation Guide

4.1 Frame Type

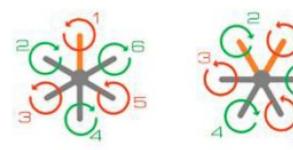
P2 Pro Flight controller support nine types of frame including + type, X type, Y type, as follow:

a. Quad-rotor + type and X type



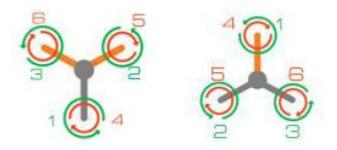


b.) Hexa-rotor + type and X type





c.) Hexa-rotor Y type and IY type



d.) Octo-rotor + type, X type and X8 type



4.2 Flight Controller Installation

In order to get the excellent flying experience, Install the P2 Pro flight controller to the weight center of the aircraft, ensure the flight controller is install horizontally on flat surface, the arrow on controller should points to the nose of aircraft. The flight controller has built-in bumper, you only need to use the 3M adhesive to fix the flight controller on aircraft.

Precaution:

a. Do not install the P2 Pro flight controller to any aircraft which wheelbase is more than 1200mm;

b. If you install any FPV transmitter, please keep it away from flight controller.

4.3 GPS Installation

Please ensure the GPS/Compass module is installed horizontally on the GPS Stand, arrow on GPS points to the nose of aircraft. Ensure the module is installed away from motors and ESCs.



5. Wire Connect Guide

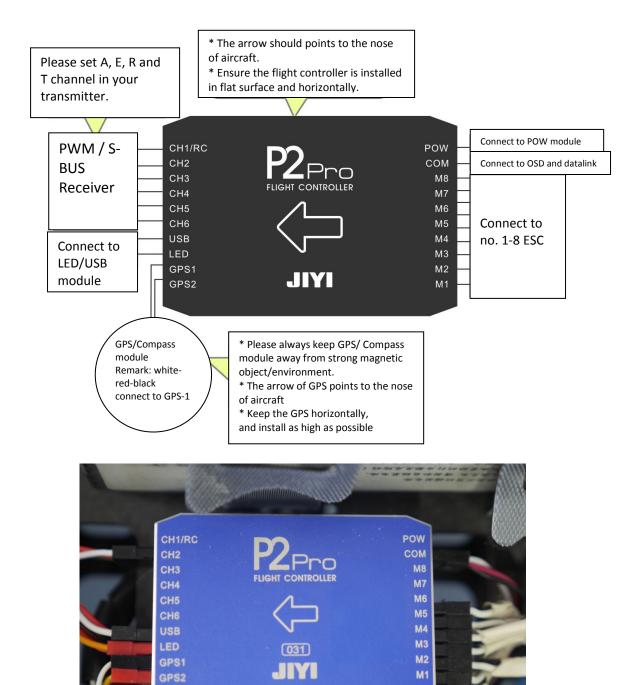
5.1 Connection

P2 Pro flight controller connect ports definition as below:

| CH1 | Aileron control | POW | Connect to POW Module |
|-------|--|-----|-----------------------------|
| CH2 | Elevation control | СОМ | Connect to OSD and datalink |
| CH3 | Throttle control | M8 | Connect to no 8 ESC |
| CH4 | Rudder control | M7 | Connect to no 7 ESC |
| CH5 | Flight mode switching (Stable Mode, GPS mode, OIC mode) | M6 | Connect to no 6 ESC |
| CH6 | Switching between Flight mode and Go Home mode | M5 | Connect to no 5 ESC |
| USB | Connect to LED/USB module | M4 | Connect to no 4 ESC |
| LED | Connect to LED/USB module | M3 | Connect to no 3 ESC |
| GPS-1 | Connect to GPS/ Compass Module – GPS | M2 | Connect to no 2 ESC |
| GPS-2 | Connect to GPS/ Compass Module – Compass | M1 | Connect to no 1 ESC |



5.2 Wiring Diagram



Notes : Please ensure white wire (signal wire) is on top when connection, except LED and GPS-2 is yellow wire on top.

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6. Configuration and Preparation

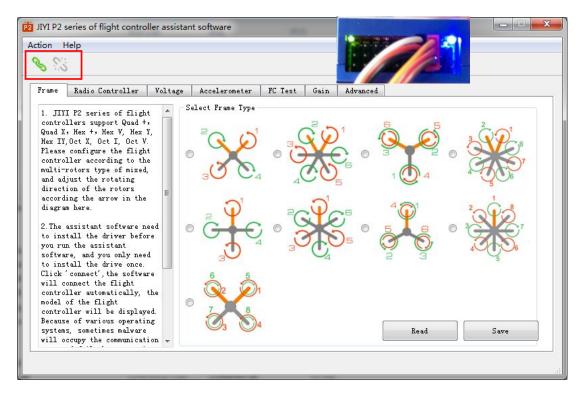
6.1 Driver and Assistant Software Installation

1. Visit to JIYI official website: <u>www.jiyiuav.com</u>, download the software according to your product. Unzip the file to your specific folder

 Open the folder you just unzipped, find "driver" folder and open, install the driver according to your operation system.
 Connect the P2 Pro flight controller to PC, wait till driver install successfully, execute "gcs.exe" in the software folder.

6.2 User Interface

After open the software, you will see the software interface below, click the green connect button at left top of software. Make sure the red LED inside flight controller(pic below) is off before click connect.



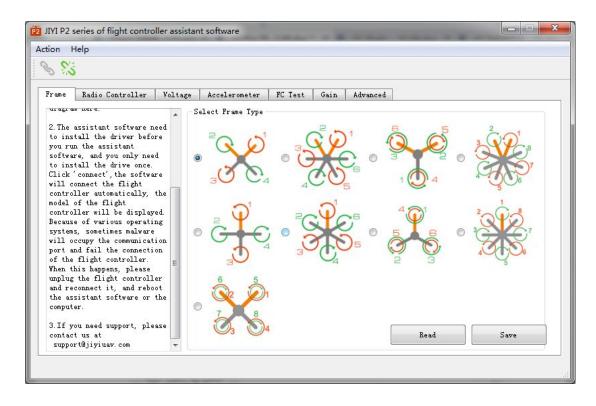
If you install the driver and software correctly, you will see below:



| | P2 | _ □ |
|---|---|------|
| ction Help | | |
| S 53 | | |
| Frame Radio Controller Volt | age Accelerometer FC Test Gain Advanced | |
| JIVI flight controllers support Quad *, Quad X, Hex *, Hex V, Hex V, Hex IY.P2 Pro support Oct X, Oct I, Oct V. Please configure the flight controller according to the multi-rotors type of mixed, and adjust the rotating direction of the rotors according the arrow in the diagram here. The multi- rotors with wheelbase the P2 flight controller supports is 760 mm maximum P2 Pro is 1200mm maximum The assistant software need | Select Frame Type Select Frame Type 3 4 4 5 4 5 4 5 1 4 4 5 5 1 4 4 5 5 1 4 4 5 5 1 4 4 5 5 1 4 4 5 5 1 4 4 5 5 1 4 1 4 1 4 1 4 1 1 4 1 1 1 1 1 1 1 1 | |
| 2. The assistant software need to install the driver before you run the assistant software, and you only need to install the drive once. Click 'connect', the software will connect the flight controller automatically, the | Read | Save |

6.3 Aircraft Type Selection

Choose your aircraft mixer type, and click "Save" button.





6.4 Remote Controller Calibration

After selection of frame type, click "Radio Controller" to enter

into RC calibration.

| tion Help | | | | |
|--|--|---|-----------------------|--|
| Frame Radio Controller Voltar 1. Select the correspond-ent type of receiver. JIYI flight controller support three different types of receivers: PWM, PPM and SBUS. 2. In the first time of using, you need to calibrate the receiver. Click the button 'Read' and then 'Calibrate', move the joystick and the control switch between the maximum and the minimum position, then click button 'calibration completed' and finish the calibration. 3. Channel 1-6 correspond-ent to aileron, going up and down, throttle, rudder, flight mode and return home. Channel 5 should be three bands switch, channel 6 must | re Accelerometer FC Test Gain Receiver Type PWM FFM SBUS Return To Home Normal Return Fly Feeling Soft Feeling O | Advanced Fly Mode Stab FS IOC FS Joystick AIL Left Up ELE Down THR Left YAW | to the di each cha | ay attention irection of annel, especi THR directio ent in our e. |

P2 Pro supports PPM, PWM and S-BUS receiver, choose relevant receiver type, and then click "Calibrate" to start calibration. Make sure the connect is correct: CH1 AIL, CH2 ELE, CH3 THRO, CH4 RUDD, CH5 Flight mode switching (Stable Mode, GPS mode, Smart Circling (IOC) mode (3 step switch required), CH6 Switching between Flight Mode and Go Home mode (2 step switch required). Please move each stick max. and min. for CH1 to 4, and switch each step for CH5 to 6, and then CH1 to 4 return to middle, click "Calibrate Complete". Notes:

1. Please calibrate the transmitter for first usage or radio controller changing.

2. Please set your radio control at airplane mode, and do not set mix control.



3. Please make sure the transmitter sticks' moving direction of each channel is the same the same as software shown.

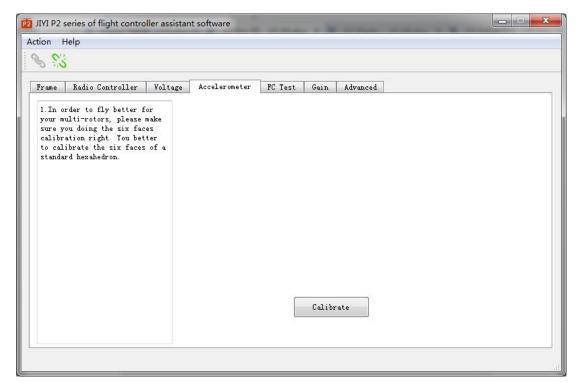
6.5 Accelerometer Calibration:

Reminder: The accelerometer calibration must be performed before first usage of flight controller. If you experience below condition, it is suggested to re-calibrate the accelerometer sensor.

a.) In stable flight mode, the aircraft is tilting during take off

b.) Drifting occurs in stable flight mode, i.e. the aircraft doesn't fly in straight line.

Accelerometer calibration method:

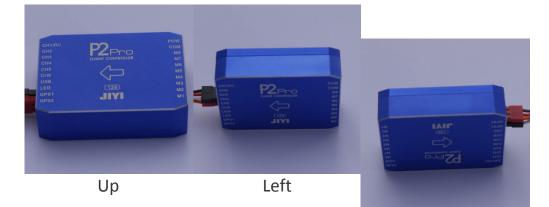


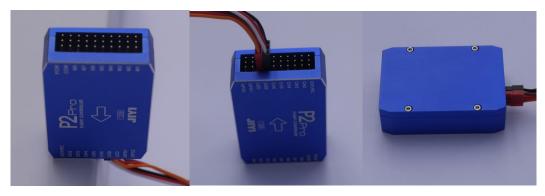
Suggest to perform the calibration in indoor. First, click "accelerometer" in the software, make sure you connect the flight controller correctly, then click "Calibrate". Follow software instruction, place the flight controller facing up, left, right, front,



back & down (total 6 faces) on a leveling surface in sequence. Total 6 surface of calibration.

Diagram for reference below:





Caution: In order to get the best calibration results. Every direction calibration must be leveling. If any surface is not in leveling position (vertically & horizontally), you need to perform the calibration again. Suggest to perform the flight controller accelerometer calibration before installing in aircraft. You may need some assist tools a to ensure the good calibration results after flight controller installed in aircraft.

6.6 Battery Setting

JIYI P2 Pro flight controller monitors the battery voltage through the power module, equipped with the low voltage protection. You can select the auto-landing or LED alarm. There is two levels of low voltage warning. If alarm mode is chosen, the LED will be triple blinking for the first level alarm, and fast blinking fast for second level alarm. You must land the aircraft immediately when second level alarm. If auto-landing is chosen, the aircraft will automatically landing right below when voltage downs to second level alarm. To



eliminate the battery measurement tolerance, you need to calibrate your battery voltage for the first usage, using the battery checker to measure the actual battery voltage, fill the figure into the measure voltage and click "Calibrate".

Caution: Please set a reasonable voltage level for low voltage alarm to avoid any damages caused by the aircraft low power.

| on H | | | | | | | | |
|------|--|---------|--|-------------|--------|----------|------|-----------|
| rame | Radio Controller | Voltage | Accelerometer | FC Test | Gain | Advanced | | |
| | ery failsafe setting ery Voltage Calibrat | | .cow Voltage Fail S Auto Landin; Alarm | | | | | |
| | | F | alarm Voltage First Alarm Second Alarm | 14 - 27 | A Y | | Read | Save |
| | | I | Voltage Calibratic Hisplay Voltage Measure Voltage | 2.44 | × • | | | Calibrate |

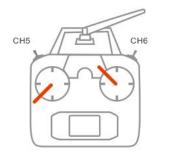
6.7 Compass Calibration

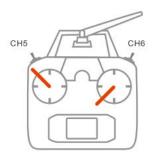
GPS/Compass module must be connected when using the P2 Pro flight controller. Prior to your first flight, you must calibrate the compass. During the calibration, please stay away from any of strong magnetic field interference, an empty & spacious open space area outdoor is recommended. Before the calibration, make sure the GPS/Compass is installed correct and firm, the arrow of GPS should point to the nose of aircraft.

Method of calibration:



JIYI P2 Pro flight controller Compass calibration method is easy. First, switch the CH6 to "Go Home" mode, put the throttle stick to bottom, rudder to left, aileron to left, elevator to top. For US mode controller (left hand throttle) as shown in pic 1. For Japanese Mode Controller (right hand throttle) as shown in pic 2.





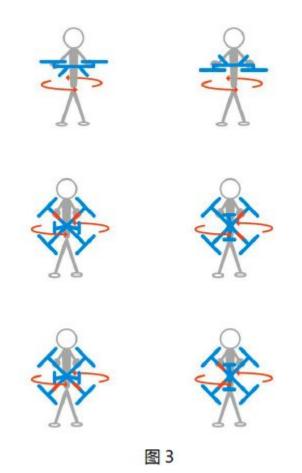
Pic 1 (left hand throttle)

Pic 2 (right hand throttle)

Wait for 2 seconds, the LED will light continuously (means entering Compass calibration mode). After that follow by picture 3 for the calibration, P2 Pro flight controller takes approximate 2 minutes of calibration data collection. When the LED change from continuous light to slow blinking, the calibration is completed.



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Caution: GPS/Compass device is sensitive to ambient environment. In order to get the best flight experience, it is advisable to calibrate the compass again when you change the flight location.

6.8 Firmware Upgrade

In order to get the best flying experience, JIYI will release the latest firmware from time to time, please update the latest firmware timely.

The firmware upgrade guide as below: Connect the flight controller to computer, make sure internet access available, open "P2 ProUploader" in the P2 Pro software folding, click "Auto Update" and wait till download completed. The upgrade program may require power off the flight controller and re-connect during the upgrade. Please make sure the flight controller is totally power off including the main power from aircraft. And then connect to computer again. Wait till upgrade finished. After upgrade finished, please calibrate the transmitter and accelerometer again.



| | 0% |
|-------------|--------|
| Auto Update | Cancel |

6.9 Stability Sensitivity Setting

| ion Help S | | | |
|---|--------------------------------|--------------------|-----------|
| 'rame Radio Controller Voltag | e Accelerometer FC | Test Gain Advanced | |
| 1. Stable Gain The range is between 1-10, and the default is 5. The value is related to the size of the copter frame and the weight. The bigger the | -Stablize Gain Setting Roll | Pitch | Хан |
| frame, the bigger the value. If you use the default parameter and find the multi-copter shaking and not stable in operation, please increase the value. | 0.00 | 0.00 | 0.00 |
| 2. Beside the size of the frame and weight, the parameter also related to the power, vibration and the flight environment closely. Please do the tune up and testing in the open area, and ensure the security protection. | | | |
| | | | Read Save |

To pursue the stability and reliability, you can adjust parameter in Gain. Under gain, you can adjust the Roll, Pitch and Yaw. The adjustable range 1-10, the default setting of flight controller is adjusted based on aircraft 450mm. If you aircraft frame is bigger than 450mm, or the aircraft is swinging or shaking when flying, you need to adjust the roll sensitivity and pitch sensitivity to a higher value.

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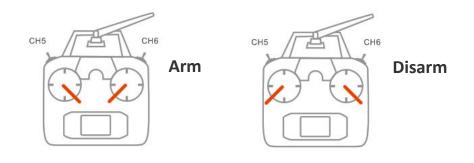
7. Flight mode

7.1 Disarm & Arm

After completed the calibration, click on "FC test" and click "Test" button. If no further error notification, you may proceed for arming. If any error message shown, you need to re-calibrate it before you're able to arm.

To arming P2 Pro, just put the throttle stick to bottom, rudder to right, aileron to left, elevator to bottom, hold for 3 seconds.

For most left hand throttle or right hand throttle, switch the mode switch to Stable mode, keeping the aircraft static, adjust the remote controller sticks as shown in pic 1 for at least 3 seconds to arm. Adjust the controller sticks as shown in pic 2 for 3 seconds to disarm it. After arming, if the throttle stick is in minimum position for 3 seconds or longer, P2 Pro flight controller will automatically locked the aircraft. If arming in GPS mode, good GPS signal is needed to arm the aircraft. Suggest arm in Stable mode and switch to GPS mode after arming.





Pic2

Caution: After the aircraft landed, please disarm the aircraft to prevent the unintentionally touch on throttle stick, which can caused serious injuries.

7.2 Stable Mode (Attitude Mode)

Switch the remote controller CH5 to Stable mode, arm the aircraft, and increase the throttle softly till the aircraft lift up the ground (depend on your throttle setting), the aircraft will take off steady. Thanks to advance algorithm of P2 Pro Flight controller, during the indoor or breeze-less



condition, you can get the stable hovering flight or excellent fixed height flying.

Caution: 1. GPS/Compass module is not working in Stable mode flight. 2. The throttle control way is different between Stable mode and GPS mode, please pay attention to throttle control when switching between these 2 modes.

7.3 GPS Flight Mode

7.3.1 GPS Mode

Choose an open area outdoor where do not have any high-rise building and no magnetic interference environment, connect the aircraft with power, LED light shall double blink to entering satellite searching mode, wait about 1 minute, when the LED change to slow blinking, the satellite searching is completed and the position locating is successful.

Switch the remote control CH5 Stable mode to GPS mode position and arm your aircraft (user can also switch stable mode to GPS mode during flight), increase the throttle to 50% and above to make the aircraft lifting from the ground, aircraft shall be lifting vertically. After the aircraft reaches the desired altitude, keep the throttle at 50% level, the aircraft shall hovering at the height automatically, if the user adjust the aileron and elevation, the aircraft will fly at the keeping height.

Caution: Compass module is involved as assist when P2 Pro flight controller working under GPS flight mode, you must stay away from strong magnetic field. While the GPS module is also involved in this mode, you need to choose a good GPS, and Satellite signal area (shall stay away from high rise building).

7.3.2 Go Home under GPS mode

P2 Pro flight controller will record the location where the user arm the aircraft as home location, switch your remote controller CH6 to Go Home mode, the aircraft shall automatically lifting to 20 meter height, keep the previous flying course and fly back to home location. During the return flight, aircraft will not be controlled. Once the aircraft reach the home point, it will hover at the air for about 2 seconds before descending slowly, in this period you can adjust transmitter stick to

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adjust the landing point (but throttle is not working). After the aircraft landed, the motor shall spin slowly and stop. User shall put the throttle at minimum level, the flight controller will automatically disarm after 3 seconds.

Caution: 1. The precondition of Go Home is GPS module records the home point location (The location of arming) successfully. Home point may be not recorded correctly if armed in stable mode. Suggest to arm under GPS mode if you need to use Go Home.

2. To prevent from any injury, when the aircraft is near to human, it is advisable not to switch to Go Home mode.

7.4 Smart Circling Mode

Make sure with good GPS signal during the flight, switch the remote controller CH5 to IOC to enter Smart Circling mode. After switch to Smart Circling, the aircraft will not start to circle flying immediately, first it will be hovering, then start to circle flying, default circle center is 10 meter away from nose of aircraft. In this mode, radio controller only control the aircraft flying radius and speed and will not control the flying direction. Please see below compare table of GPS mode and Smart Circling mode:

| | GPS Mode |
|-----|--|
| CH1 | Control the roll of aircraft (ROLL) |
| CH2 | Control the pitch of aircraft (PITCH) |
| CH3 | Control the altitude of aircraft (ALT) |
| CH4 | Control the yaw of aircraft (YAW) |



| | Smart Circling Mode | | | | |
|-----|---------------------|----------------------------------|--|--|--|
| | Channel Setting | Description | | | |
| CH1 | Control the | Stick left and right control the | | | |
| СПІ | circling rate | circling speed and direction | | | |
| CH2 | Control the | Stick up and down control the | | | |
| СПZ | circling radius | circling radius | | | |
| СНЗ | Control the | Same as GPS mode | | | |
| | flying altitude | | | | |
| | | In circling mode, the nose of | | | |
| | | aircraft default facing to the | | | |
| | Control the | circle center always. Once | | | |
| CH4 | | move the yaw stick manually, | | | |
| | aircraft yaw | FC will not control the yaw | | | |
| | | and operator can control the | | | |
| | | yaw by radio controller. | | | |

CH1 controls the aircraft circling speed and direction. When the aircraft hovering, move stick to left, aircraft will start circling with default radious (10 meters) clockwise. Keep stick on left, the circling speed will become faster. The speed increase is decided by the controller stick. Stick returns to center, the aircraft will be circling at current speed. Stick moves to right, aircraft circling speed will slow down till stop (hovering). Keep stick on right, the aircraft starts circling counter-clockwise. The control way is the same as clockwise circling.

CH2 controls the circling radius. Moving the stick up, the circling radius will decrease. Moving the stick down, the circling radius will increase. Stick in middle, aircraft keeps current radius circling. When the circling radius is 0, the aircraft is in pan-shot mode, it will be hovering and rotating. CH1 will control the rotating speed and direction.

Caution: 1. Do not take off in Smart Circling mode to prevent accident, because the control way is different with Stable and GPS mode.2. Before switch to Stable and GPS mode, please make sure you are clear about nose of aircraft, to prevent from any accident because of not clear of nose of aircraft.



7.5 Lost Control Protection (Fail Safe)

P2 Pro flight controller support lost control protection (fail safe). First of all, your receiver must support FS setting, and you set your remote controller correctly according to your remote controller manual.

In the good GPS satellite signal condition, once the receiver lost the signal, the P2 Pro Controller shall activate the auto pilot and return to home location (no matter in stable mode or GPS mode). The auto pilot home will be same with the Go Home mode.

During the return flight, if the remote control is restarted and user wants to re-control the aircraft, you need to switch the CH5 from Stable mode and GPS mode one time, at the same time you should ensure the throttle stick is not at the lowest position in order to gain control over the aircraft again. If the remote control receiver encounter signal lost under the bad GPS signal, the aircraft shall auto-landing at right below ground.

7.6 Sports Mode

P2 Pro flight controller is built in with two type of operation mode - soft mode and sport mode. The default setting is soft mode. Only PPM and S-BUS receiver are able to switch between this two modes by transmitter, CH7 will be used as the switch for soft and sport mode. During the flight, you can switch between two modes in order to have different flying experience.



| JIYI P2 series of flight contro tion Help | | |
|--|---|---|
| Frame Radio Controller | Voltage Accelerometer FC Test Gain Fly Feeling Soft Feeling Sport Feeling By RC CH7 | Advanced Return To Home ALT (M) Read Save |
| | | |
| | | |

Caution: it is advisable that beginner user shall not change to the sport mode during the flight. Suggest switch to this mode once the user flying become skillful.



Appendix

Appendix 1: Product Specification

| General Characte | • |
|-------------------------|---|
| Function: | PPM, PWM, S-BUS receiver support |
| | Superior Stable flight against interference |
| | Gentle throttle setting |
| | Precise spot GPS hovering |
| | Low voltage protection |
| | Lost control protection |
| Peripheral Equip | nent |
| Multi-Rotor | Quad-rotor I4, X4 / Hex-rotor I6, X6, IY6, Y6 / |
| supported: | Oct-rotor I8, V8, X8, not exceed 1200mm |
| | wheelbase |
| ESC supported: | PWM ESC below 490HZ |
| Recommended | PWM and S-BUS. 6 channels |
| transmitter: | |
| System | Windows XP SP3, Window 7, Windows 8, IOS X |
| requirement: | |
| Basic Parameter: | |
| Working | Main controller 4.8V-5.5V |
| voltage: | |
| LED/ POW | Input 7.4v-26V (recommend 2S-6S LiPo); |
| module: | Output 2A @ 5V |
| Power | < 2W |
| Consumption: | |
| Working | -10 °C – 60 °C |
| environment | |
| temperature: | |
| Storage | -40 °C - 60 °C |
| environment | |
| Temperature: | |
| Weight: | Main controller: 36g |
| | GPS/Compass Module: 45g |
| | LED/USB Module: 7g |
| Flight Fasture (D | POW Module: 11g |
| | epending on aircraft frame and power unit) |
| Hovering | Horizontal: ±2.0m |
| tolerance | Vertical: ±0.8m |
| (GPS Mode): | |



| Max Tilt Angle: | 45° | |
|-----------------|---|--|
| Max Yaw | 150°/s | |
| Angular | | |
| Velocity | | |
| Ascent/Descent | 6m/s | |
| Wind | <8m/s (17.9mph/28.8km/h) | |
| Resistance | | |
| Built in Flight | Attitude Mode | |
| mode: | GPS Mode | |
| | Smart Circling Mode | |
| | Failsafe Mode | |
| | Low Voltage Protection | |
| | One key take off, Click and fly, Waypiont | |
| | (Groundstation function) | |
| | Remote/Cell phone adjustment | |

Appendix 2 : LED Light Indicator and Meaning

P2 Pro Flight controller only provide "red light" as indication of to flight controller working status, indication as below table:

| LED Light | LED status | P2 Pro working status |
|-----------|------------------|--------------------------|
| Red Light | Slow blinking | Standby |
| | (Disarmed) | |
| | Double blinking | Bad GPS signal |
| | (Armed/disarmed) | |
| | Triple blinking | First level low voltage |
| | (Armed) | |
| | Off (Armed) | Working normal |
| | Fast blinking | Second level low voltage |
| | (Armed) | |



Appendix 3 JIYI Technical Support

If you have any problem during your usage, please contact JIYI for technical support. You can download relevant information from JIYI official website.

JIYI official website: www.jiyiuav.com

Technical support: support@jiyiuav.com

Again, thank you for choosing JIYI P2 Pro!