INSTRUCTION MANUAL

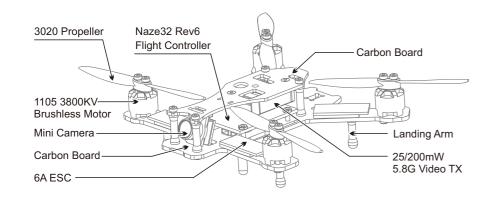
Sparrow FPV Racer SK-910013



INSTRODUCTION

The SkyRC Sparrow FPV racer is designed for both indoor and outdoor FPV experience. Its wheelbase is 120mm with pre-installed FC, ESC, Motors, Camera and advanced 5.8G Video Transmitter. There are 4 LED indicators on the front and rear arms (front red, rear green).

Please carefully read the manual before operating, wish you enjoy your flights!

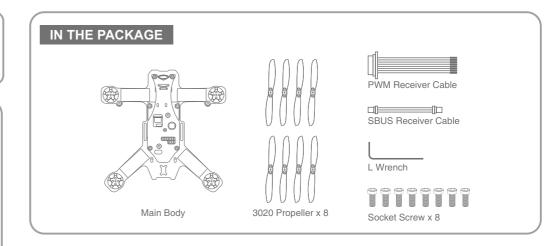


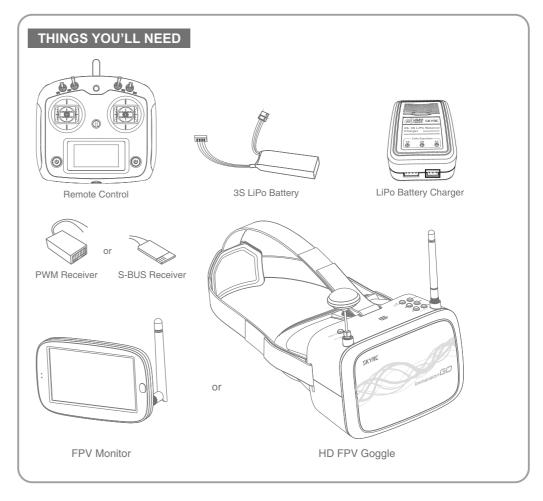
SAFETY PRECAUTIONS

The Sparrow FPV Racer is not a toy. It is not suitable for using by any children under 14 years of age. During the flying, the propellers of Sparrow FPV Racer could cause injury to people, animals and property. Do not touch Sparrow FPV Racer when propellers are spinning and wait until the propellers have completely stopped before handing it.

Do not fly your FPV Racer over any public area, such as beaches, stadiums, populated parks, or other people's backyards and private areas. Do not fly near airport. In some country, you need get appropriate authorisation from local government before your flying.

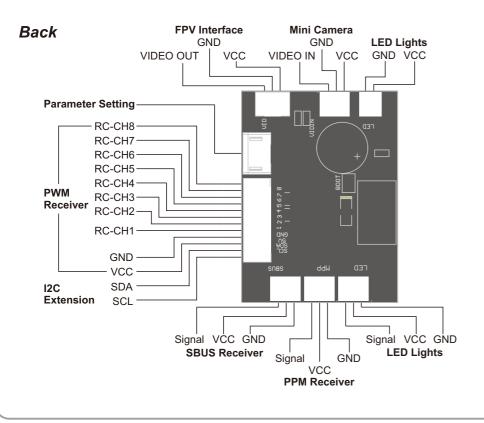
You are responsible for your own safety. You are responsible to take adequate precaution by using the proper equipment and safety gear, and determining whether you have adequate skill and experience. SkyRC disclaims all responsibility for any resulting damage, injury, or expense. It is your responsibility to make sure that your activities comply with applicable laws.

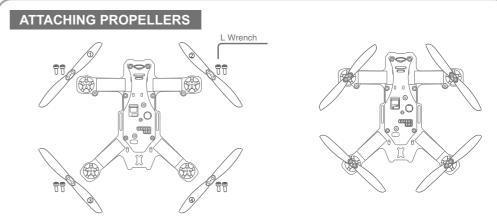




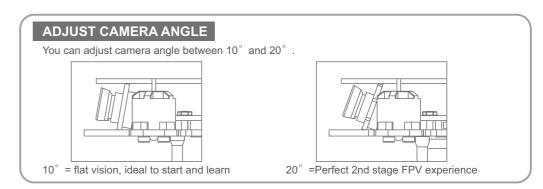
Front ESC Connection Signal GND VCC VCC GND VCC GND VCC GND Signal Signal Signal Signal Signal Signal Signal Signal Signal

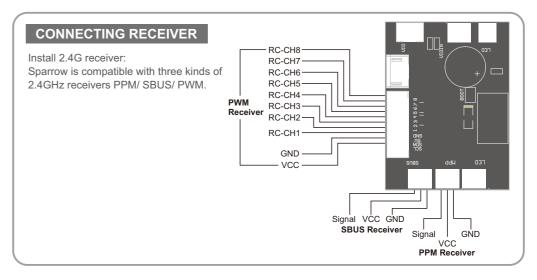
FLIGHT CONTROLLER AND POWER DISTRIBUTION BOARD





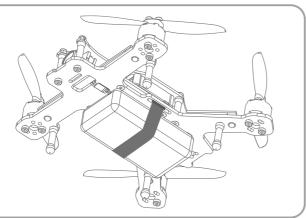
To attach the propellers correctly, you need match the spin direction on the propellers with the number. Peel off the number sticker before flying.





INSTALLING BATTERY

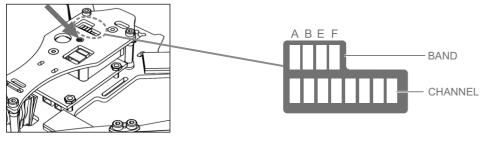
3s LiPo 450mAh battery is recommended, you can also choose battery with similar size and capacity.



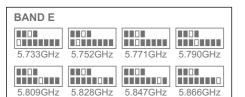
SELECT THE BAND/CHANNEL

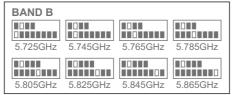
One button and LEDs for frequency selection method is easy and intuitive. Frequency Selection: Single push to change frequency, push and hold for 2 seconds to change band.

As transmission power level regulations can vary between different geographical locations, the power output can be adjusted. Press and hold the button for 5 seconds to switch power level from 25mW to 200mW, and vice verse. The band LED will blinking if the power output level is 200mW.



BAND A			
5.740GHz	5.760GHz	5.780GHz	5.800GHz
5.820GHz	5.840GHz	5.860GHz	5.880GHz





BAND F			
5.705GHz	5.685GHz	5.665GHz	5.645GHz
5.885GHz	5.905GHz	5.925GHz	5.945GHz

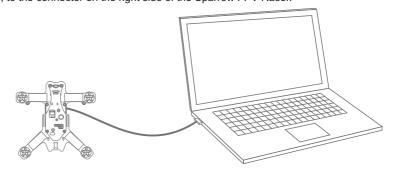
SETUP SPARROW

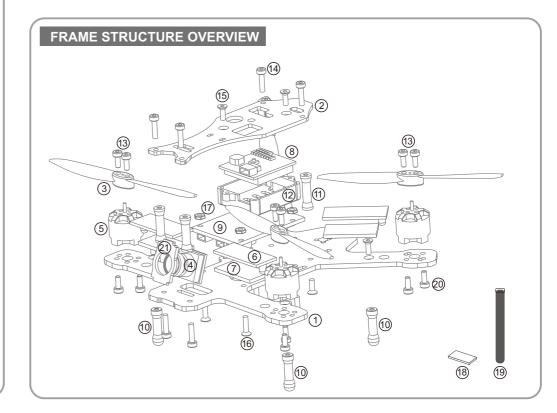
The open source flight controller firmware that we chose to power the Sparrow is Cleanflight, mainly due to it's solid support and the OneShot ESC control protocol.

Because Cleanflight is constantly evolving, you will get the most updated setup instructions from their website.

Naturally, if you get stuck or something is unclear, please visit http://cleanflight.com/

To hook up the cleanflight configurator, hook up a personal computer via a standard micro-USB cable, to the connector on the right side of the Sparrow FPV Racer.





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PART LIST

No.	Name	
1	Bottom Carbon Board	1
2	Top Carbon Board	1
3	3020 Propeller	4
4	Mini Camera	1
5	1105 3800KV Brushless Motor	4
6	6A ESC	4
7	EVA Double Sided Adhesive Tape	4
8	25/200mW 5.8G Video TX	1
9	FC and Power Distribution Board	1
10	Landing Arm	4
11	Aluminum Coulumn	4

No.	Name	
12	Aluminum Shield	
13	Socket Screws M2 x 6mm	8
14	Socket Screws M2 x 8mm	6
15	Socket Screws M2 x 8mm	8
16	Socket Screws M2 x 10mm	4
17	Nylon Screw Nut M2mm	
18	EVA Single Sided Adhesive Tape	1
19	Velcro	
20	Socket Screws M2 x 4mm	
21	Camera Tilt Board	

REGULATORY NOTICE

The use of this product may be prohibited in your country/region/state, please verify that the RF output power and frequencies used by this transmitter comply with local rules and regulations, this product may require a license to operate.

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SPECIFICATIONS

• Wheelbase: 120mm

• Flight Controller: Naze32 Rev6

ESC: 6A BLHeliMotor: 1105 3800KVCamera: 600 Lines

• 5.8GHz Video Transmitter: 25mW/200mW selectable 32 Channels

• Propeller: 3020

• Battery: 3s LiPo 450mAh (recommended)*

• 2.4GHz Receiver: Compatible with PPM/ SBUS/ PWM 2.4GHz receiver*

* Battery and 2.4GHz receiver is not included in the package.

CAUTION

Fly only in safe areas, away from other people. Do not fly Sparrow FPV Racer within the vicinity of homes or crowds of people. Sparrow FPV Racer are prone to accidents, failures, and crashes due to a variety of reasons including, lack of maintenance, pilot error, and radio interference. Pilots are responsible for their actions and damage or injury occurring during the operation or as a result of Sparrow FPV Racer.

WARRANTY AND SERVICE

We guarantee this product to be free of manufacturing and assembly defects for a period of one year from the time of purchase. The warranty only applies to material or operational defects, which are present at the time of purchase. During that period, we will repair or replace free of service charge for products deemed defective due to those causes.

This warranty is not valid for any damage or subsequent damage arising as a result of misuse, modification or as a result of failure to observe the procedures outlined in this manual.

Note:

- 1. The warranty service is valid in China only.
- 2. If you need warranty service overseas, please contact your dealer in the first instance, who is responsible for processing guarantee claims overseas. Due to high shipping cost, complicated custom clearance procedures to send back to China. Please understand SkyRC can't provide warranty service to overseas end user directly.
- 3. If you have any questions which are not mentioned in the manual, please feel free to send email to info@skyrc.cn



Manufactured by SKYRC TECHNOLOGY CO., LTD. www.skyrc.com 7504-0843-02

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