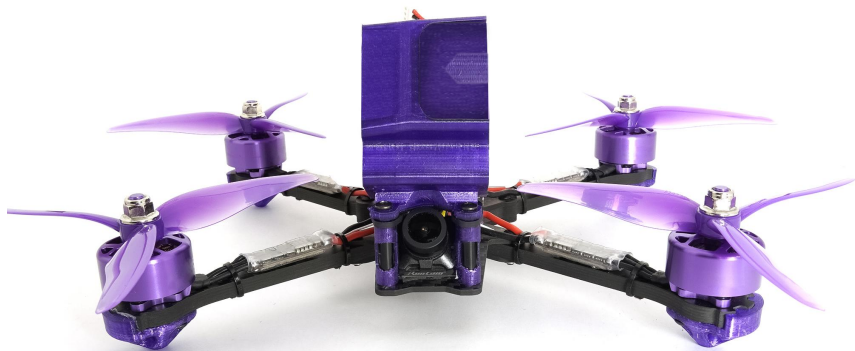


X220 V3

QUICK START GUIDE



Package included:

- 1 x X220 V3 frame kit
- 2 x 2207.5 2550KV brushless motor CW
- 2 x 2207.5 2550KV brushless motor CCW
- 4 x 35A BLHeli_S ESC
- 1 x Customized F405 PDB flight controller
- 1 x RunCam Phoenix 2 1000TVL camera
- 1 x 5.8G 40CH 0mW/25mw/200mw/600mw VTX Switchable
- 1 x BB alarm buzzer and taillights
- 1 x Picture antenna
- 2 x 20*200mm battery strap
- 1 x 30° camera mount compatible with Runcam 3 3S Gopro session
- 4 x Racerstar 5143 CW
- 4 x Racerstar 5143 CCW

PNP :

Flight Controller: ICE F405-PDB

ESC: ICE T-35A

VTX: MT5G8 5804

FPV Camera: RunCam Phoenix2

Motor: 2207.5-2550KV

Propellers: Racerstar 5143

Contents

1.0 Frame kit-----	04
2.0 Motor-----	04
3.0 Esc-----	05
4.0 Flight controller-----	05-06
5.0 Switchable VTX-----	06
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7.0 Taillight Buzzer-----	07
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1.0 Frame kit

Wheel base: 225mm

Upper plate thickness: 2.0mm

Frame arm thickness: 5.0mm

Bottom plate thickness: 2.0mm

X plate thickness: 2mm

Frame standoffs: M3*20mm 6 PCS



2.0 Motor

Dimensions: 2207.5

Motor KV: 2550 RPM/V

Lipo cell: 3-4S

Weight: 34g

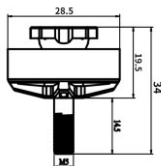
Max continuous current: 45A

Maxcontinuous power: 756W

Configu-ration: 12N/14P

Prop adapter shaft: M5

Propeller: 5-6 inch



3.0 ESC

Input Voltage: 3-6s lipo

Operating Current: 35A

Peak current: 40A

BEC: NO

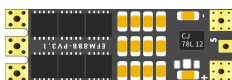
Dimensions: 30×10mm

MOS: AON7418

Firmware: BLHeli_S

Agreement: DSHOT150/300/600/1200/ONSOHT125MultiShot Damped

Weight: 3.0g



4.0 Flight controller

MCU: STM32F405

GYRO: BMI270

Barometer: BMP280

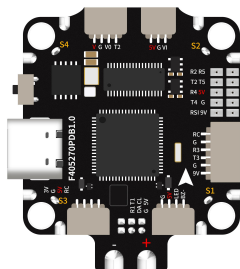
Blackbox: 16M Memory

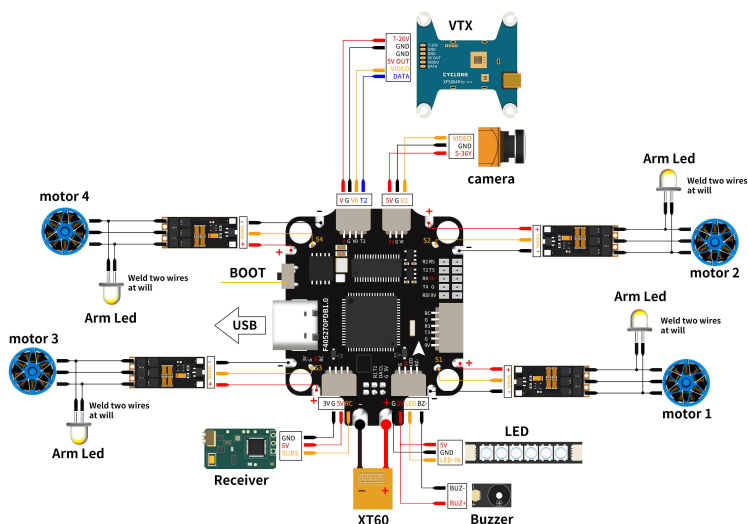
Input: 2-6S Lipo

Mounting: 30.5X30.5mm

Size: 37×37mm

Weight: 10g





5.0 Switchable VTX

Item name: 5.8G 40CH 0mW/25mw/200mw/600mw VTX

Switchable Output power and transmission distance: $\geq 0.5\text{km}@25\text{mW}$, $\geq 1\text{km}$ to 200mW, $\geq 2\text{km}$ to 600mW

Transmission power: 0mW / 25mW / 200mW / 600mW

Full video format: NTSC / PAL

Input voltage and power dissipation: 7V ~ 24V, + 12V / 260mA @ 600mW Size: 36*36*6mm

Weight: $\leq 7\text{g}$ (excluding antenna)

Nixie tube SCAN: frequency point (1-8), frequency band (AE), power (1-3, 0=0mw, 1=25mw, 2=200mw, 3=600mw)

Package included: 1 x 5.8G 40CH 0mW/25mw/200mw/600mw VTX Switchable

6.0 Camera

Model number: RunCam Phoenix 2

Image Sensor: 1/2 inch super wide motion sensor

Horizontal resolution: 1000TVL

Camera Lens: 2.1 mm (M12) Fov 155 ° (4:3)

Screen scale: 4:3/16:9 switchable

Mirror image: YES

Video format: NTSC/PAL switchable

Signal to noise ratio: > 50dB (AGC auto gain off)

Electronic shutter speed: Automaticity

Automatic gain control: Automaticity

Minimum Illumination: 0.001 lux@aperture

Wide Dynamic: Global Wide Dynamic

Day/night switch: Color/black and White/ext/auto Menu

Control: Keypad control

Power: DC 5-36 volts

Operating Current: 200 ma@5 V: 85 ma@12 V

Shell material: ABS

NET weight: 9g

Dimensions: 19*19*20mm

7.0 Taillight Buzzer

Working voltage: 5V

Size: 32*18*7mm

Weight: 2.4g

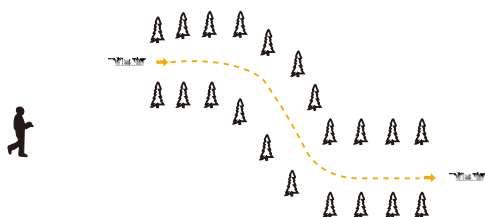
LED: 4 lights

Buzzer: YES

8.0 Motor Unlock/lock

Set the unlock switch at BF ground station, turn on the remote control, turn the throttle to the lowest point, connect the battery on the plane, unlock the take-off.

9.0 Traversing flight



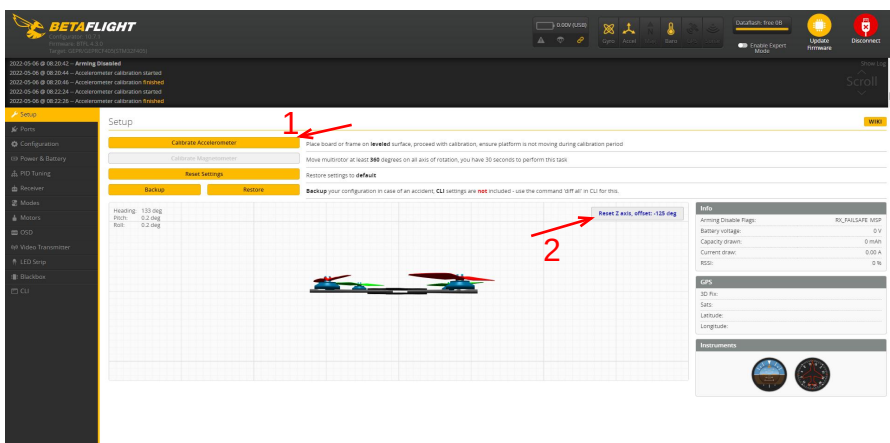
- 1).Flying is more suitable for experienced pilots.
- 2).During the flight, please keep the flight within the video receiving range (the actual range depends on the flight environment and weather conditions).
- 3).During flight, please avoid crowd, animals and High voltage wires and other obstacles

10.0 Adjusting parameter reference

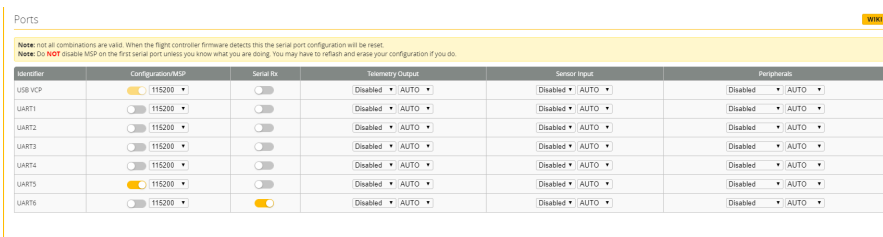
(1).Connecting flight controller USB, click"Connect"



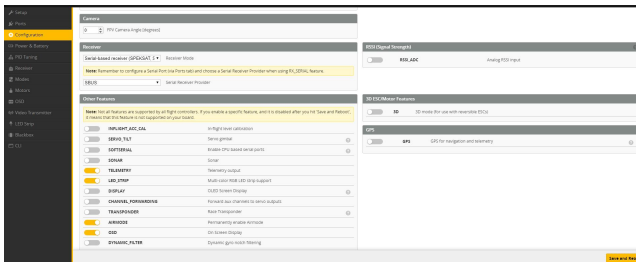
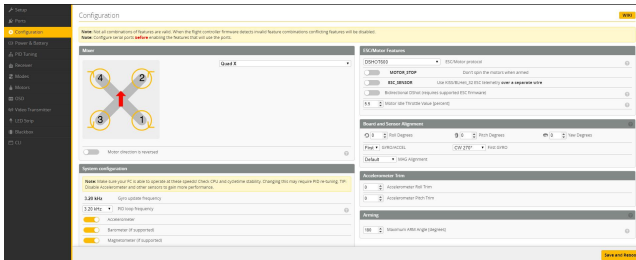
(2).Flatten the aircraft and click in order“ 1” “ 2”



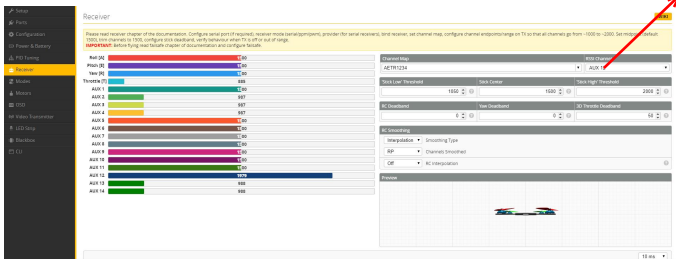
(3).Open the serial port corresponding to the receiver



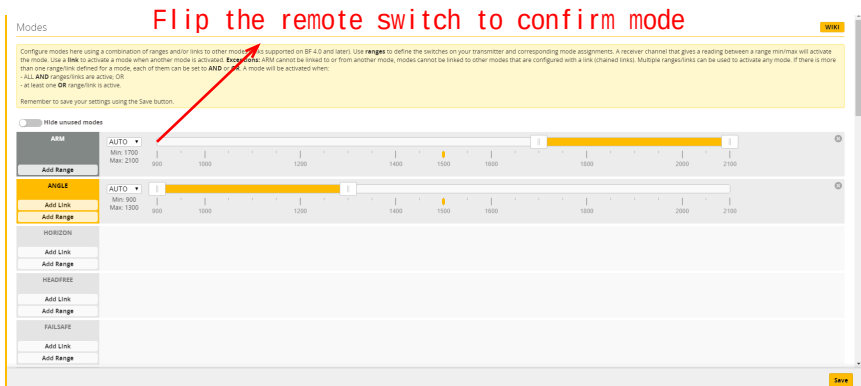
(4).Configuration File



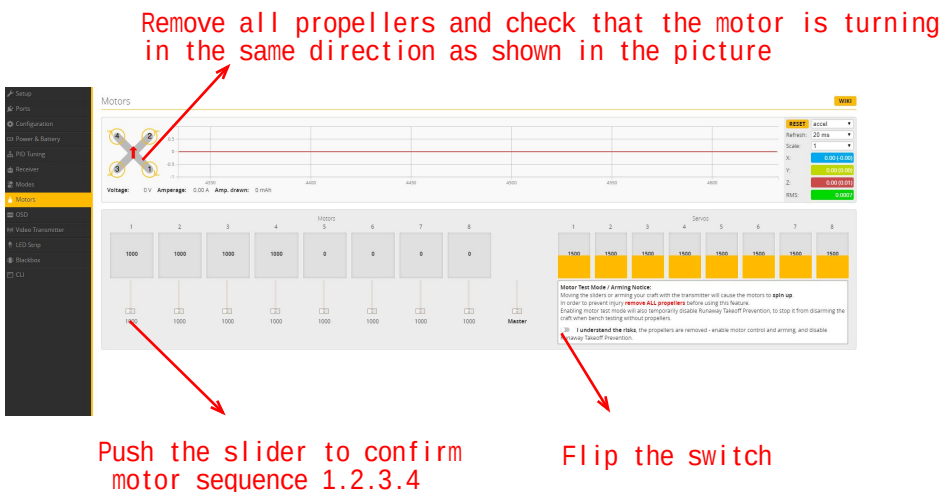
(5).Receiver



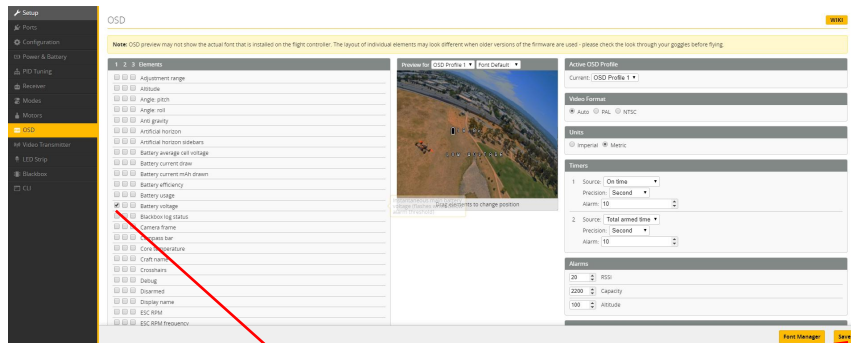
(6).Patterns



(7).Motor



(8).OSD



Open the required functionality and click Save in the lower right corner