Racewhoop30 HD

FPV Racing Drone

Manual

Contents

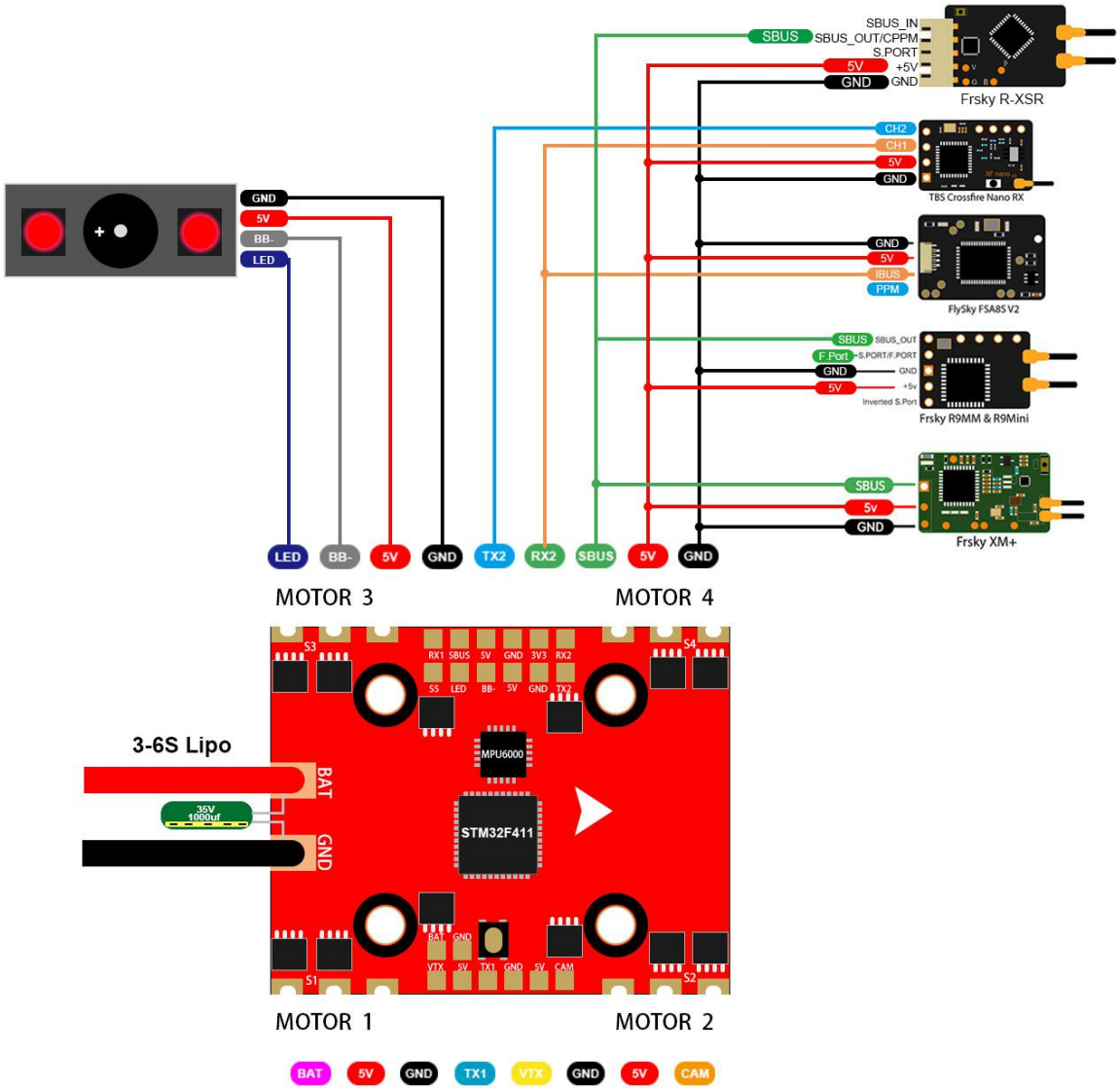
Package IncIuded

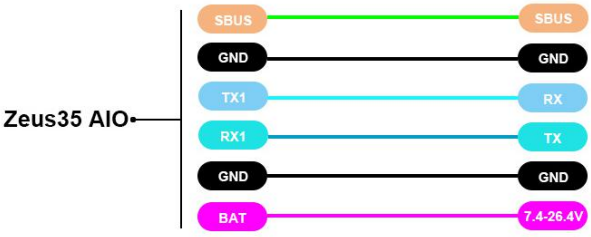
Racwhoop30 HD FPV Racing Drone *1	Accessory Package*1

1.Product Specifications

Product parameters	
Model	Racwhoop30 HD FPV Racing Drone
Frame Kit	Racewhoop30 Frame Kit
Flight Controller	Zeus35 AIO
ESC	35A 4in1
VTX	CADDX Nebula Nano
Motor	2105.5 Motor 4S KV3600 6S KV2800
Support receiver	SBUS .DSMX.i.BUS
Input Voltage	3-6S Lipo

2.Interface Description





3.Check the flight control drive

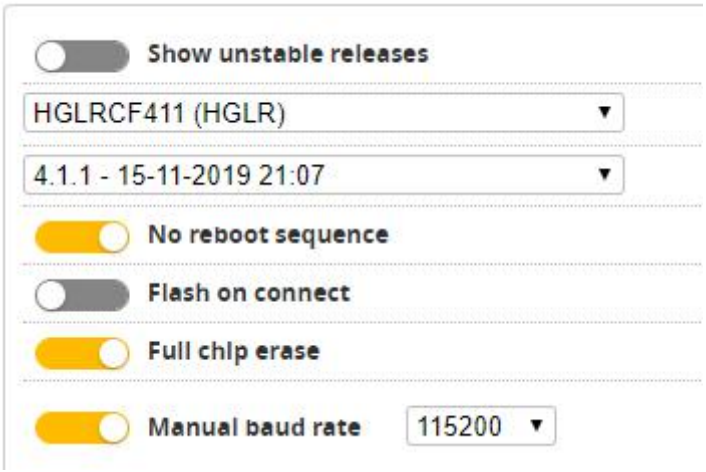
1. Long Press BOOT buttons.connect USB.The system automatically install the driver

2.Driver cannot be installed, please download ImpulseRC_Driver_Fixer

3.Double-click on the run(Plug in the flight controller to automatically install the driver)

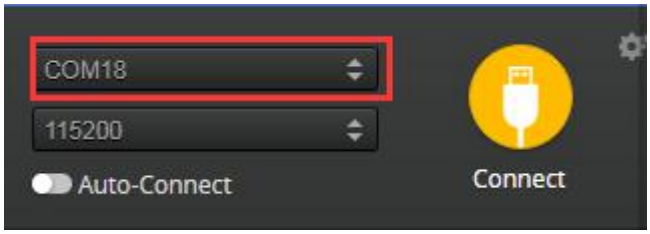
4.open betaflight configurator , enter DFU mode

5. Click Firmware Flasher Select firmware version



6.Click Load Firmware [Online] Load firmware. Flash Firmware Waiting for completion Erasing ... It will be prompted upon completion. Programming: SUCCESSFUL

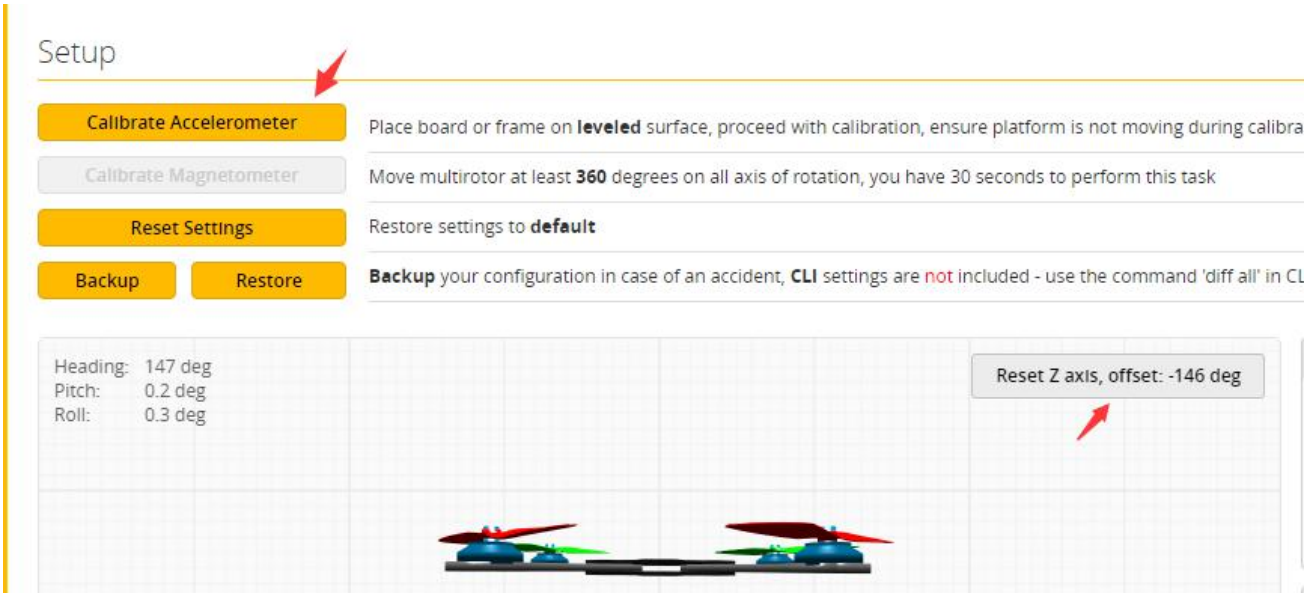
7.open betaflight configurator 。Controller plugged into the computer. Betaflight Automatically assigned port，click “Connect” Enter setup interface（Different computer COM）



4.Calibration accelerometer

1. Put the aircraft horizontal and click “Reset Z axis”

Click again 



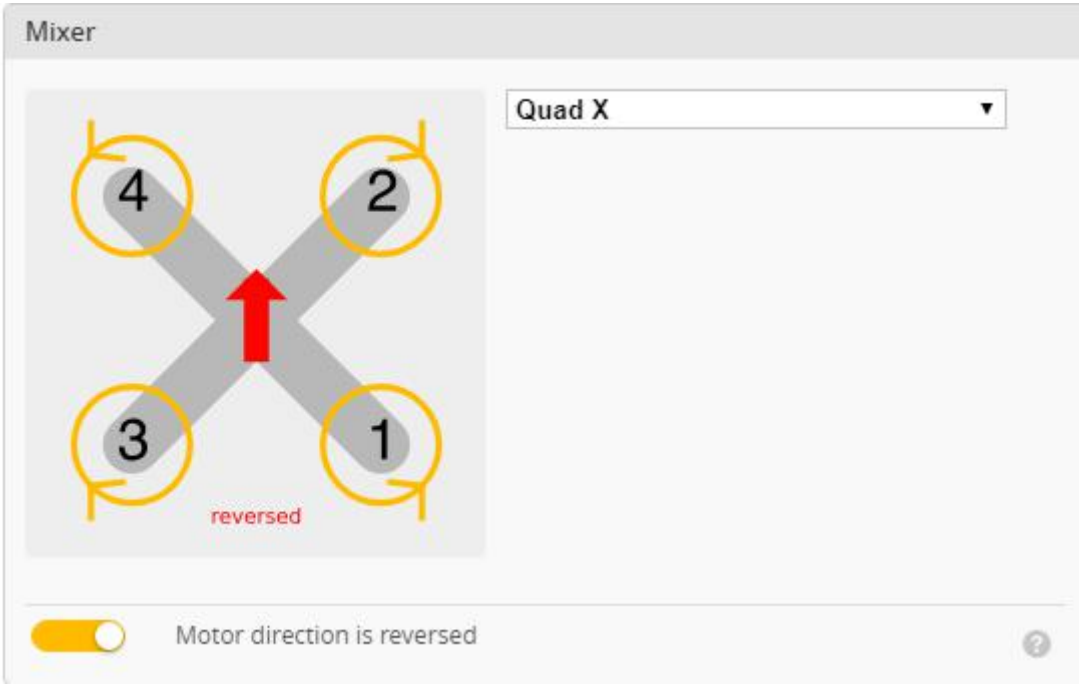
5.UART serial port use

UART1 uses VTX image transmission

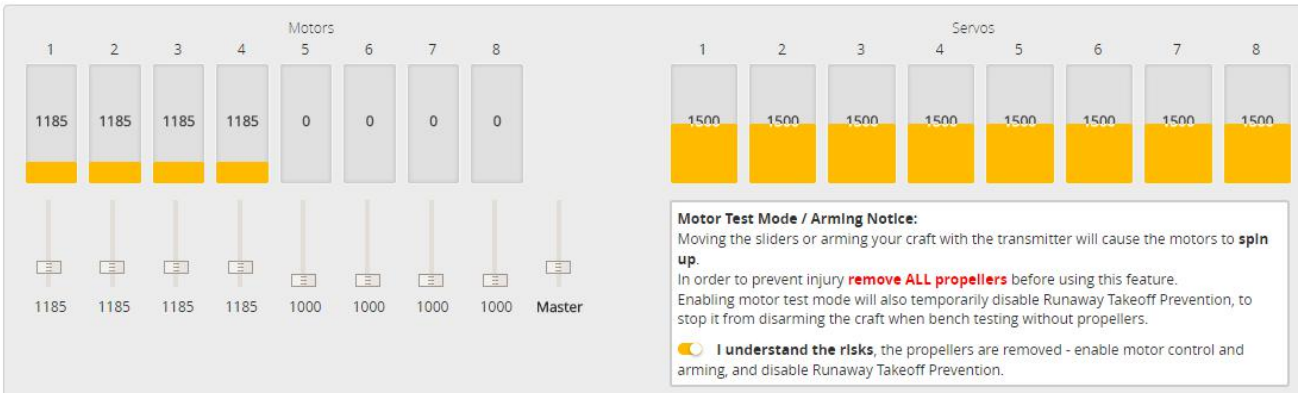
UART2 uses receiver telemetry

6.Select aircraft model

1.Click Configuration Select model

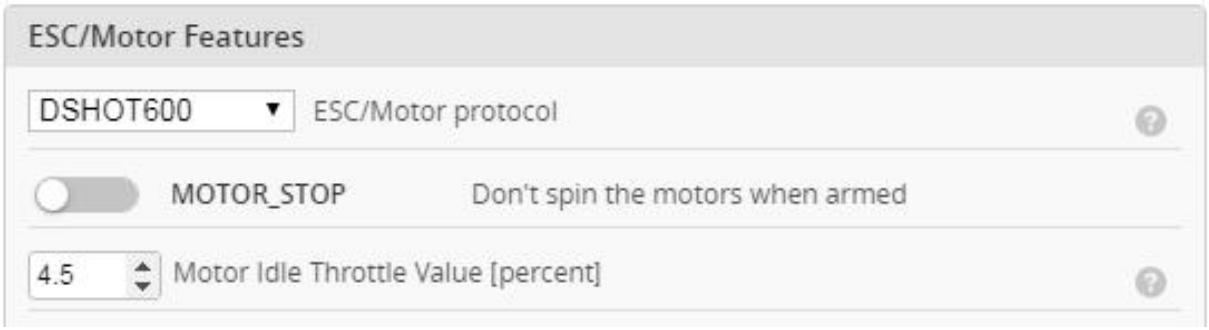


2.Click Motors Click "I understand the risks" Push Master to check motor steering "Master" Steering can be changed at BLHeliSuite



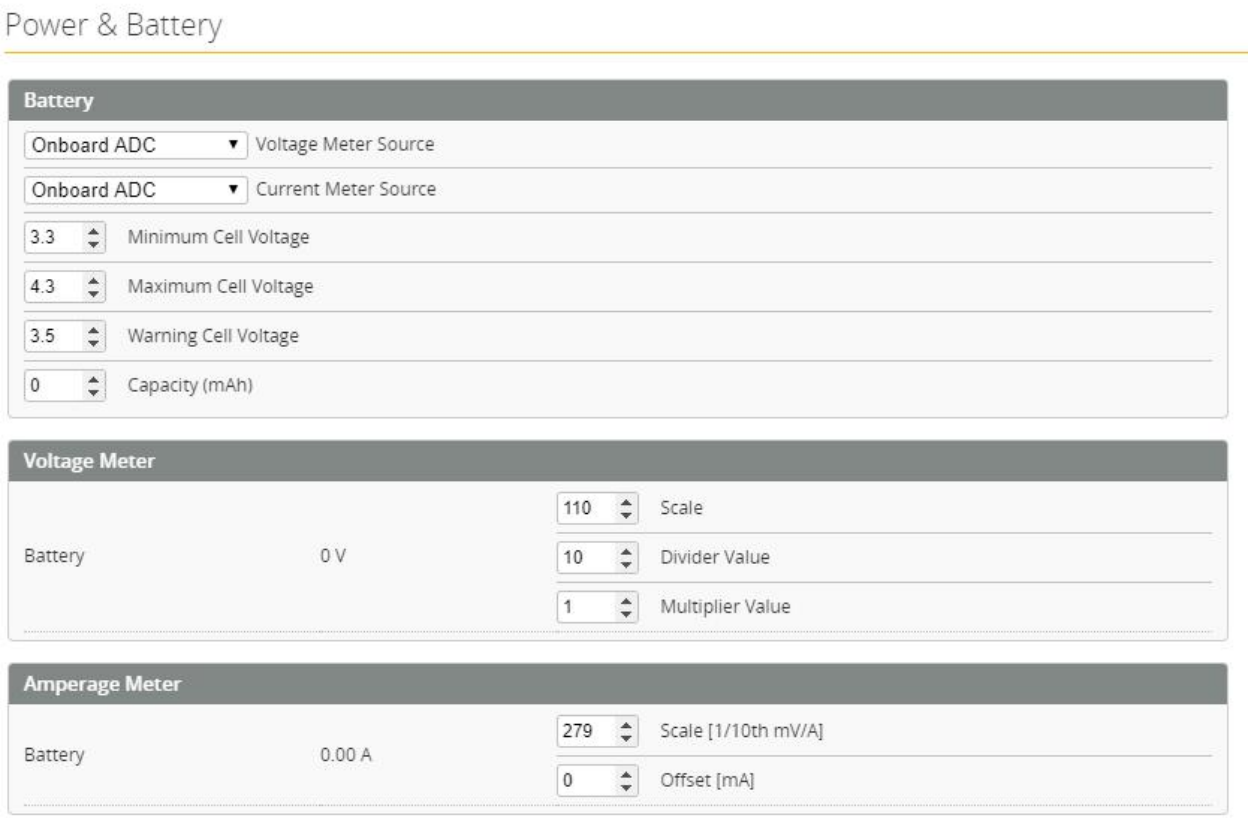
7.Choose ESC protocol

1.Choose the right ESC protocol, the optional universal protocol DSHOT600.



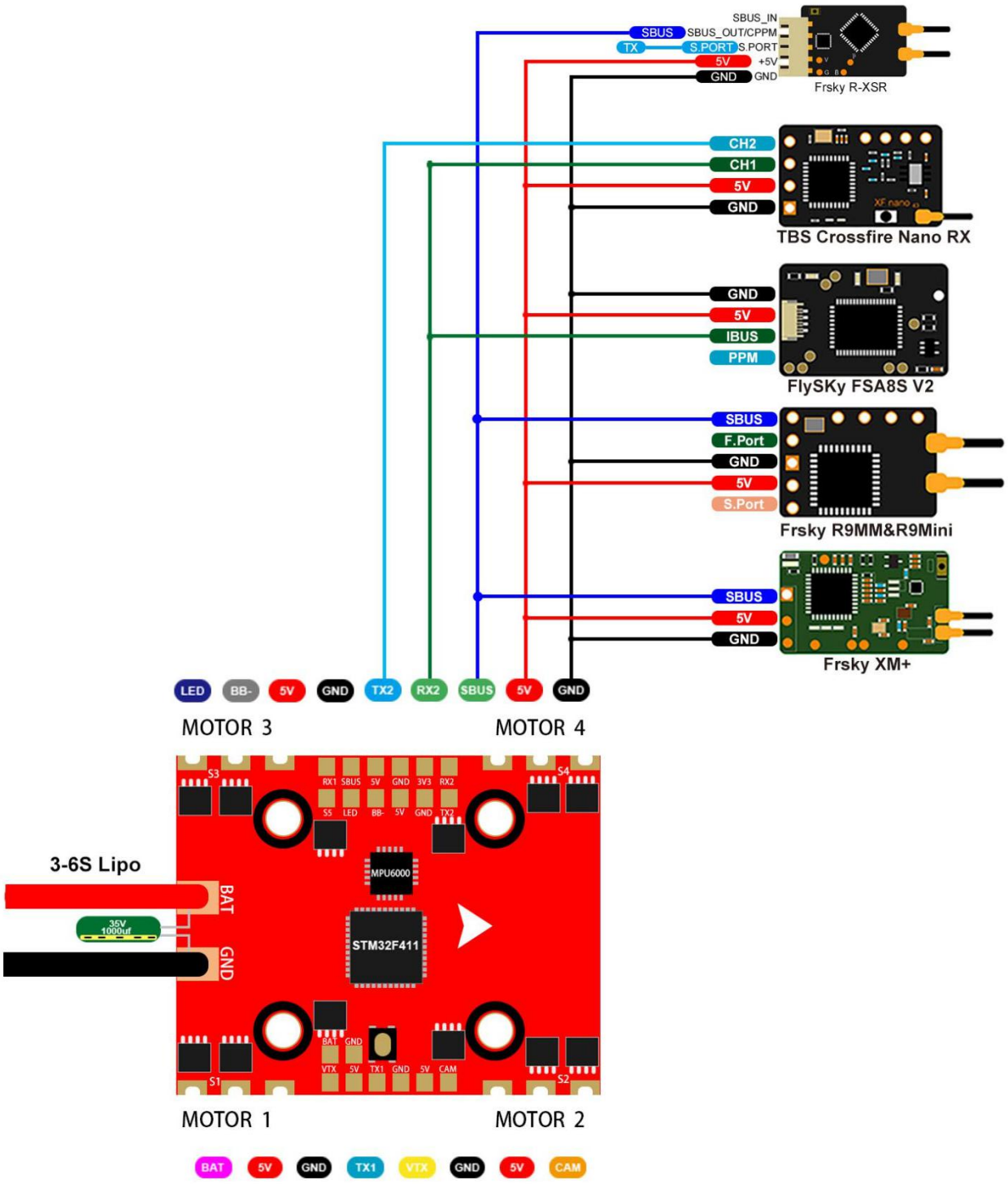
8.Voltage parameters setting

1.Click Power & Battery Setting parameters



9.Setting up the receiver

1.Receiver connection diagram



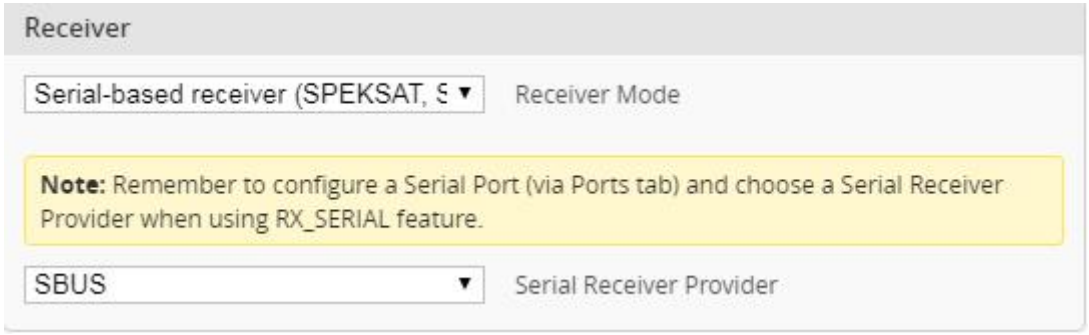
2.Click Ports have found "UART2" Open （SBUS） the receiver serial port

Identifier	Configuration/MSP	Serial Rx	Telemetry Output	Sensor Input	Peripherals
USB VCP	115200		Disabled AUTO	Disabled AUTO	Disabled AUTO
UART1	115200		Disabled AUTO	Disabled AUTO	VTX (IRC Tran AUTO
UART2	115200		Disabled AUTO	Disabled AUTO	Disabled AUTO

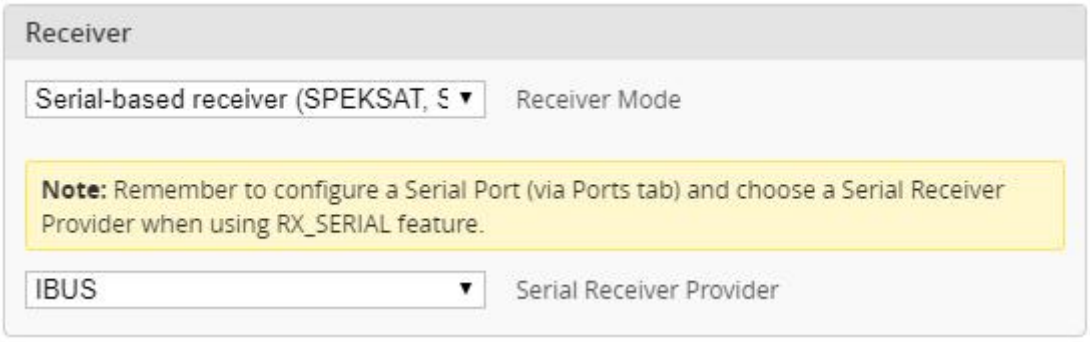
3.Open (i.BUS/DSMX) receiver serial port

Identifier	Configuration/MSP	Serial Rx	Telemetry Output	Sensor Input	Peripherals
USB VCP	115200		Disabled AUTO	Disabled AUTO	Disabled AUTO
UART1	115200		Disabled AUTO	Disabled AUTO	VTX (IRC Tran AUTO
UART2	115200		Disabled AUTO	Disabled AUTO	Disabled AUTO

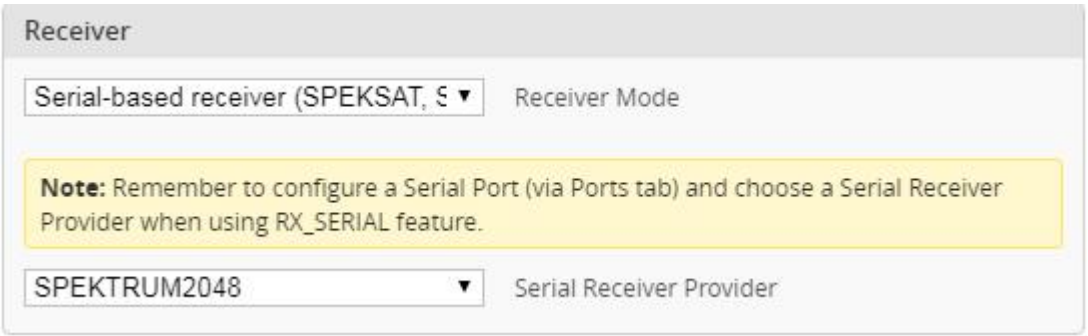
4.Set the SBUS receiver



5.Set the i.BUS receiver

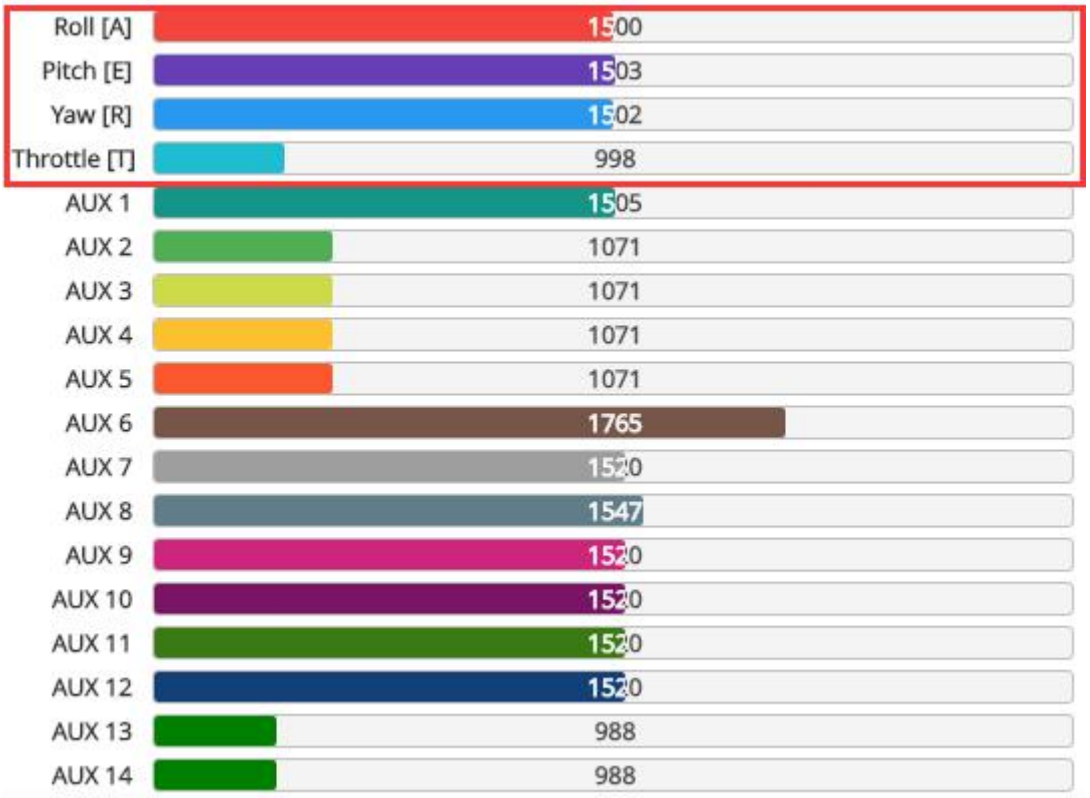


6.Set the DSMX receiver



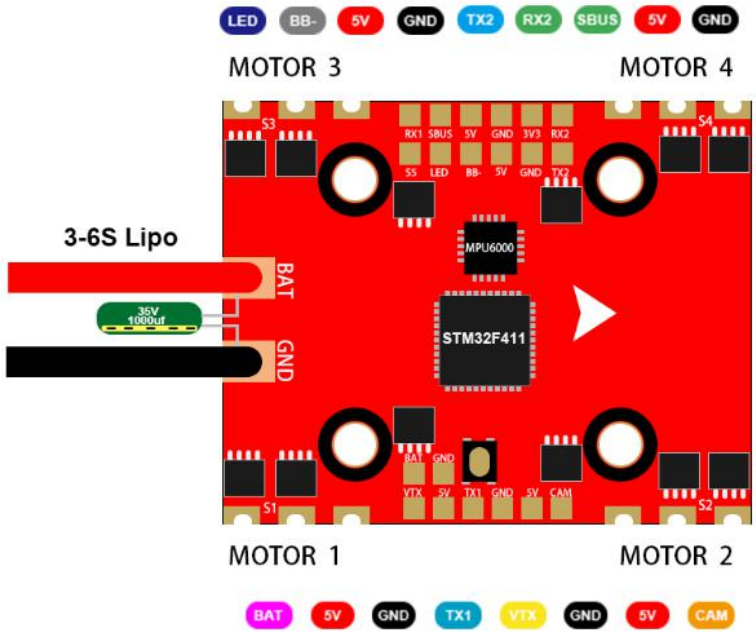
10.Check receiver signal

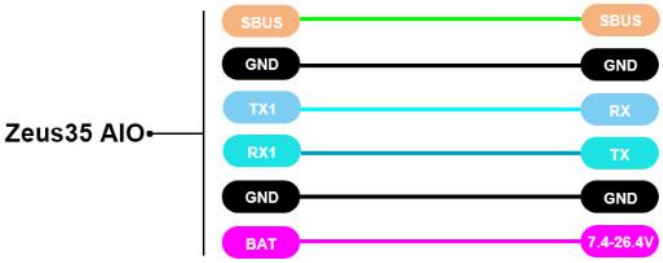
1.Click Receiver Check the remote control output signal



11.VTX serial port use. VTX uses OSD smart audio

1.VTX connection diagram

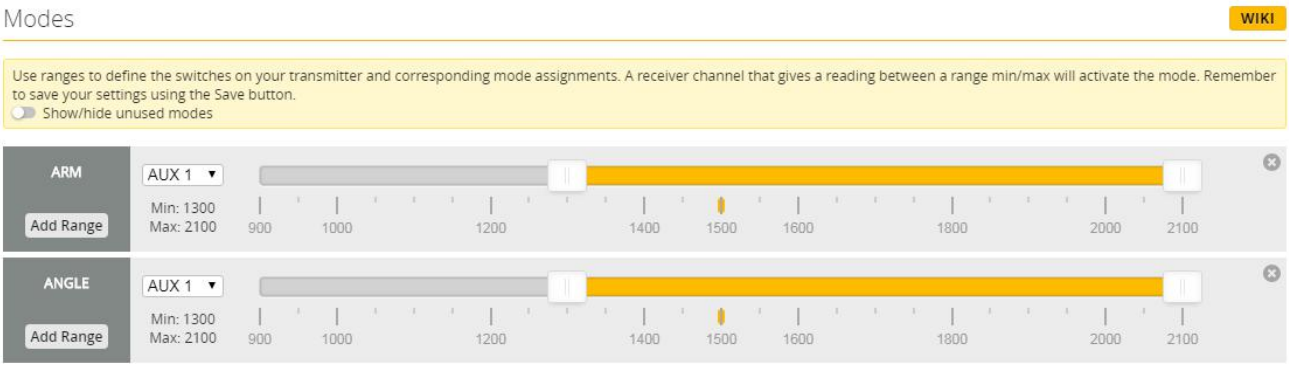




2.VTX serial port opens. The protocol is selected according to its own VTX protocol.

12.Select flight mode startup mode

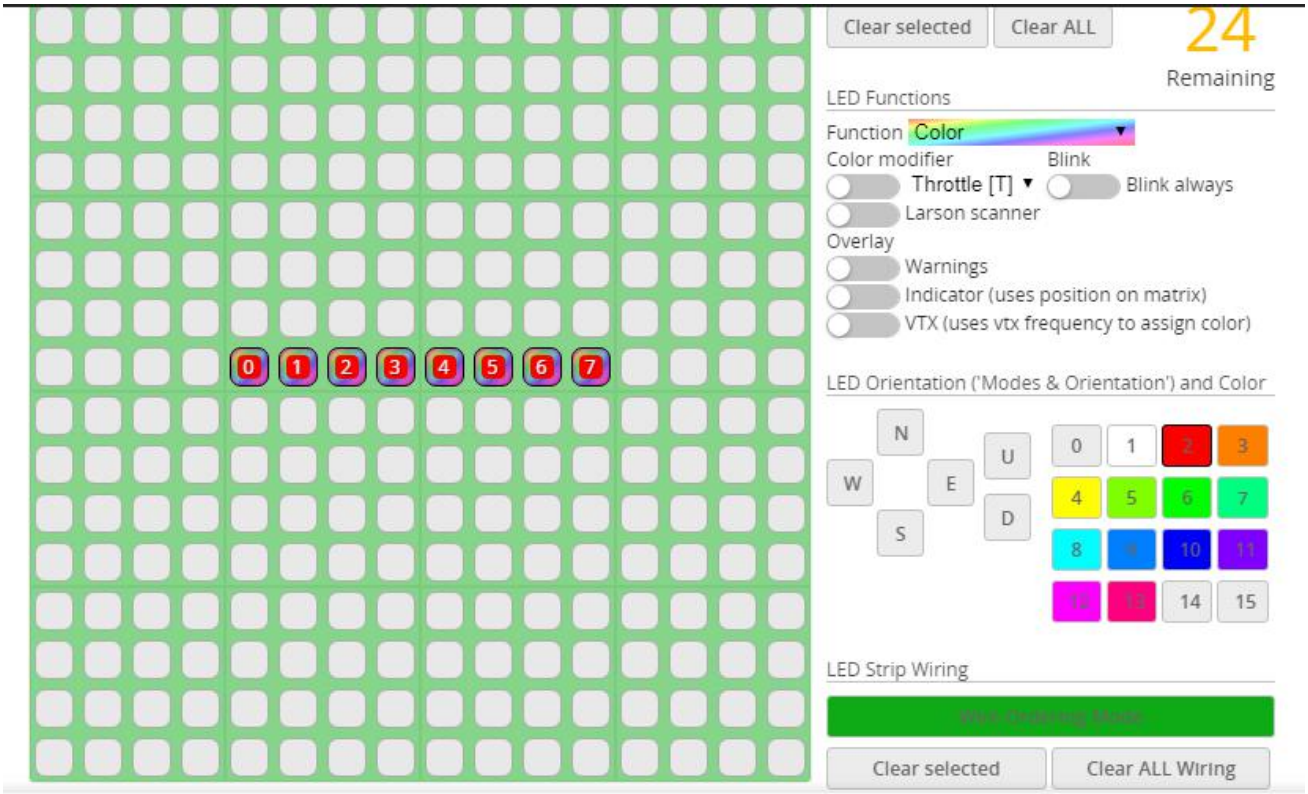
1. Click Modes set up the function of remote control switch across the channel (below are for reference only)



13.LED settings

1. Click Configuration Turn on LED support

2.Click LED Strip .Click Wire Ordering Mode set according to need



14.Troubleshooting

Warning:

Please read the cautions as follows, otherwise stability of your flight controller cannot be ensured, your flight controller will even get damaged.

- Keep focus on the polarity. Check carefully before power supply.
- Cut off the power when you connect, plug and pull anything.
- The refresh rate of PID and Gyroscope is up to 8K/8K.

after sales question:

1. After receiving the goods, it is found that the product can not be used normally. If the return to the factory is a quality problem, the repair service will be provided free of charge.

2. If the product is damaged due to improper operation, the repair service may be provided under the condition that the inspection can be repaired.

3. For domestic customers, please contact the after-sales service personnel. For overseas customers, please contact the official website for after-sales service.

Product daily problems

1.OSD garbled:

If you find garbled characters, please open Betaflight, click “OSD” .and click “Font Manager” clicks on “Upload Font” to update

1. When plugged in the battery, the aircraft does not pass the self-test without "BBB" sound. There is only one sound.

Please check if the ESC agreement is correct

3.The spin of the aircraft keeps spinning

1. Please check if the propeller is correct
2. Please check if the motor direction is correct