



Veyron3 FPV Racing Drone

Manual





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Package Included

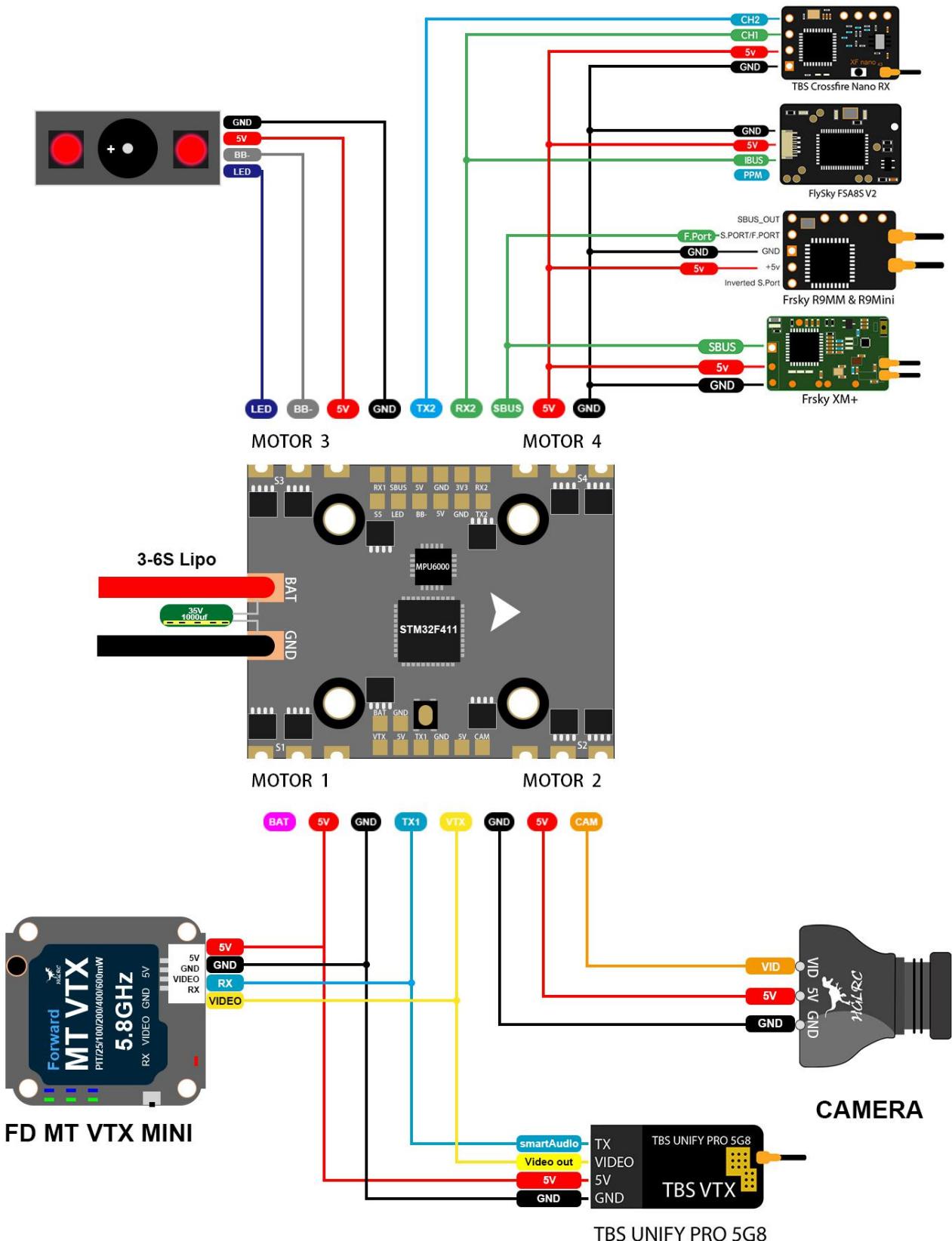
Veyron3 FPV Racing Drone *1	
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1. Product Specifications

Product parameters	
Model	Veyron3 FPV Racing Drone
Weight	247.3g(BNF)
Frame Kit	Veyron3 Frame Kit
Flight Controller	Zeus35 AIO
ESC	35A 4in1
VTX	FD MT VTX Mini
Camera	Caddx Ratel
Motor	FD1408
	kv2400 (6S)
	KV3600 (4S)
Support receiver	SBUS .DSMX.i.BUS
Input Voltage	3-6S Lipo
Size	205X188mm

2. Interface Description





3.Check the flight control drive

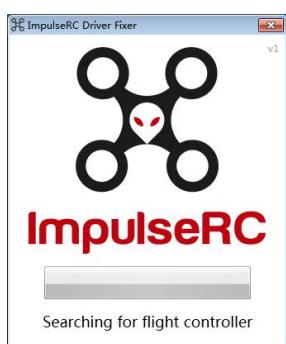
1. Long Press BOOT buttons.connect USB.The system automatically install the driver

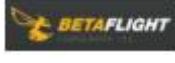


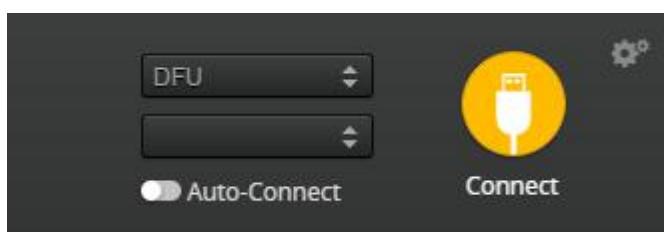
2.Driver cannot be installed, please download ImpulseRC_Driver_Fixer



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

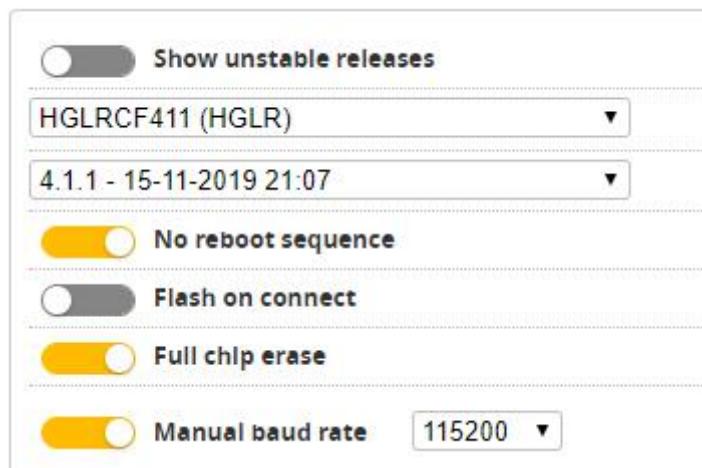


4.open betaflight configurator , enter DFU mode





5. Click **Firmware Flasher** Select firmware version



6. Click **Load firmware.** Waiting for completion It will be prompted upon completion.

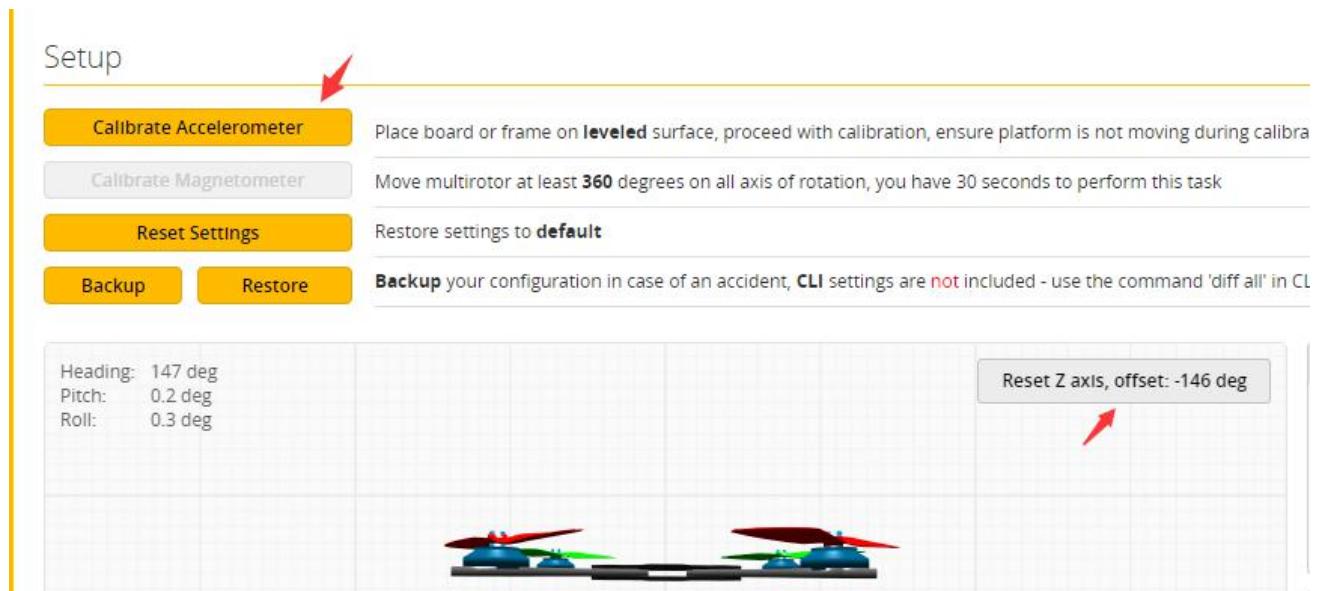
7. open betaflight configurator . Controller plugged into the computer. Betaflight Automatically assigned port, click “Connect” Enter setup interface (Different computer COM)



4. Calibration accelerometer

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

Click again Calibrate Accelerometer



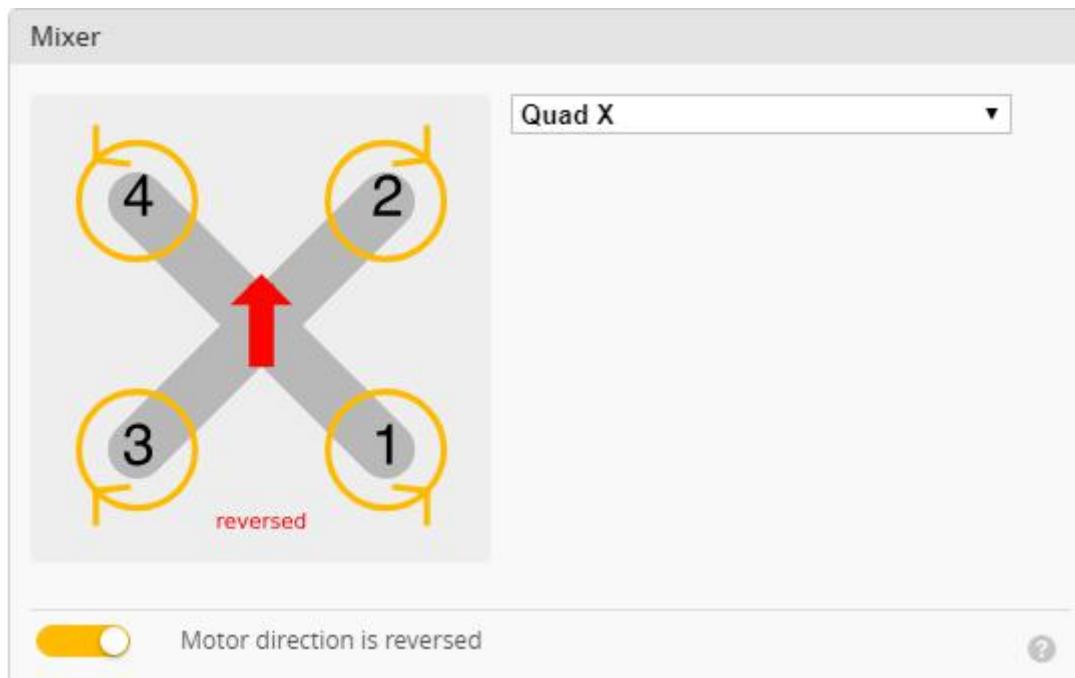
5. URAT serial port use

URAT1 uses VTX image transmission

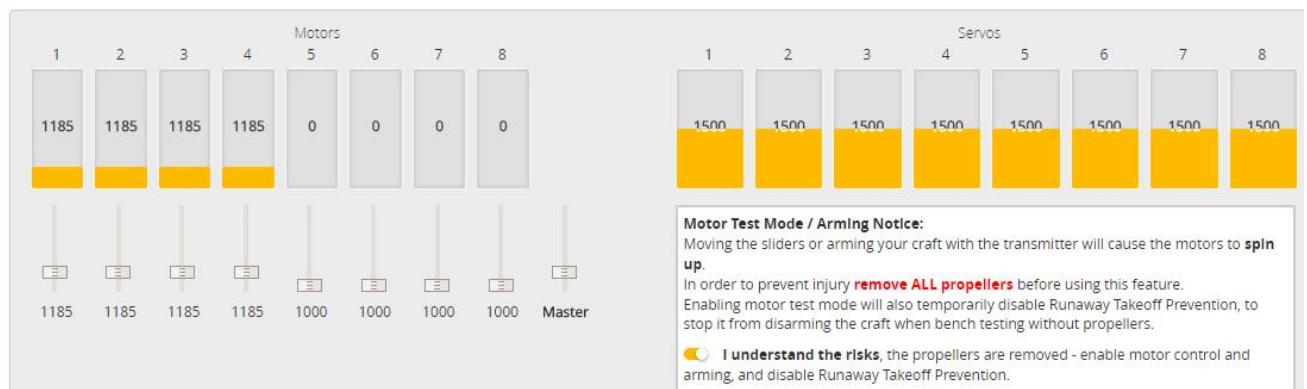
UART2 uses receiver telemetry

6. Select aircraft model

1. Click  Configuration Select model

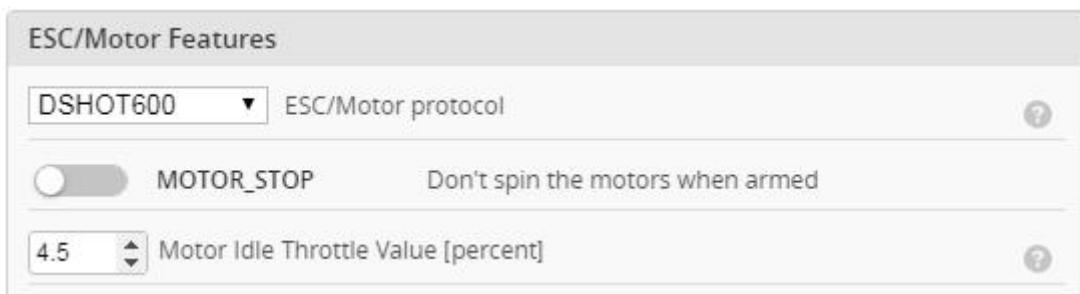


2. Click  Motors Click “I understand the risks” Push Master to check motor steering “Master” Steering can be changed at [BLHeliSuite](#)



7.Choose ESC protocol

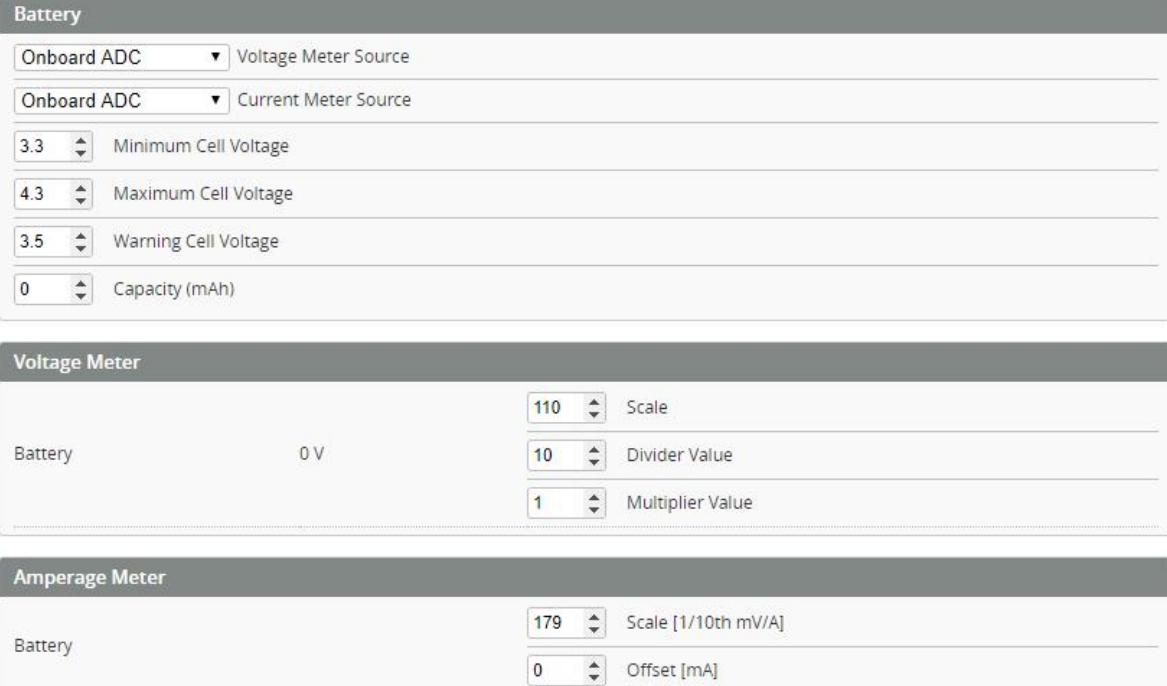
1.Choose the right ESC protocol, the optional universal protocol DSHOT600.



8.Voltage parameters setting

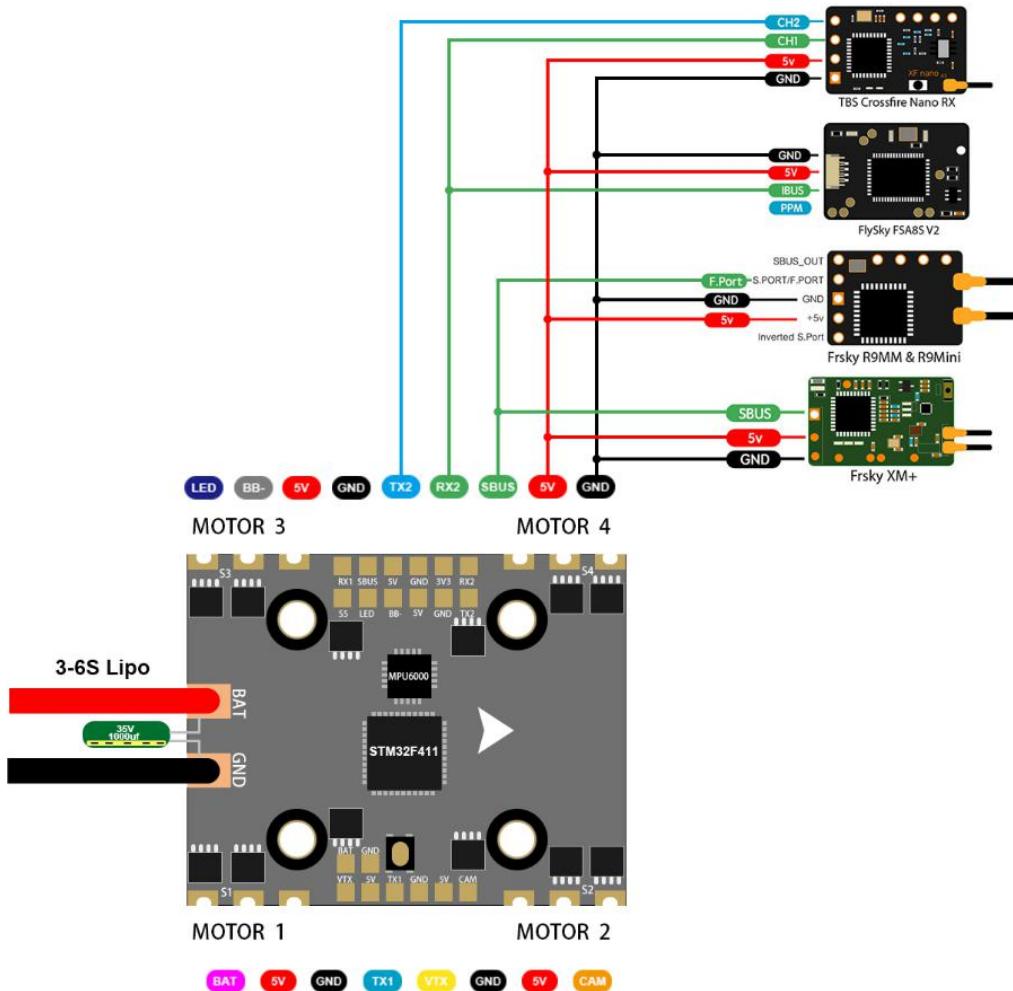
1.Click  Power & Battery Setting parameters

Power & Battery



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	<input checked="" type="checkbox"/> 115200	<input type="checkbox"/>	Disabled ▾ AUTO ▾	Disabled ▾ AUTO ▾	Disabled ▾ AUTO ▾
UART1	<input type="checkbox"/> 115200	<input type="checkbox"/>	Disabled ▾ AUTO ▾	Disabled ▾ AUTO ▾	VTX (IRC Tran ▾ AUTO ▾
UART2	<input type="checkbox"/> 115200	<input checked="" type="checkbox"/>	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	<input checked="" type="checkbox"/> 115200	<input type="checkbox"/>	Disabled ▾ AUTO ▾	Disabled ▾ AUTO ▾	Disabled ▾ AUTO ▾
UART1	<input type="checkbox"/> 115200	<input type="checkbox"/>	Disabled ▾ AUTO ▾	Disabled ▾ AUTO ▾	VTX (IRC Tran ▾ AUTO ▾
UART2	<input type="checkbox"/> 115200	<input checked="" type="checkbox"/>	Disabled ▾ AUTO ▾	Disabled ▾ AUTO ▾	Disabled ▾ AUTO ▾



4. Set the **SBUS** receiver

Receiver

Serial-based receiver (SPEKSAT, S ▾) Receiver Mode

Note: Remember to configure a Serial Port (via Ports tab) and choose a Serial Receiver Provider when using RX_SERIAL feature.

SBUS ▾ Serial Receiver Provider

5. Set the **i.BUS** receiver

Receiver

Serial-based receiver (SPEKSAT, S ▾) Receiver Mode

Note: Remember to configure a Serial Port (via Ports tab) and choose a Serial Receiver Provider when using RX_SERIAL feature.

IBUS ▾ Serial Receiver Provider

6. Set the **DSMX** receiver

Receiver

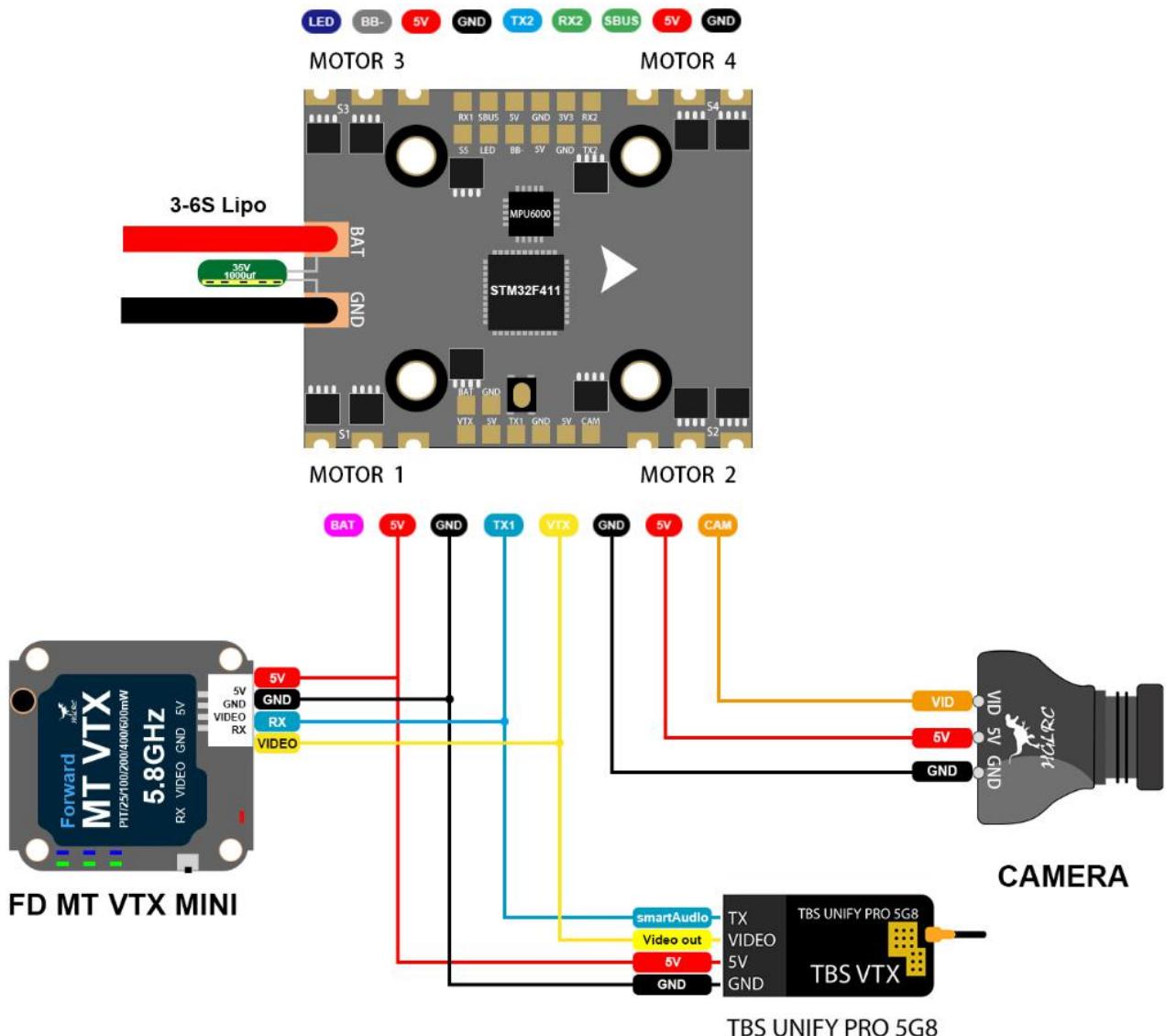
Serial-based receiver (SPEKSAT, S ▾) Receiver Mode

Note: Remember to configure a Serial Port (via Ports tab) and choose a Serial Receiver Provider when using RX_SERIAL feature.

SPEKTRUM2048 ▾ Serial Receiver Provider

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

1.VTX connection diagram

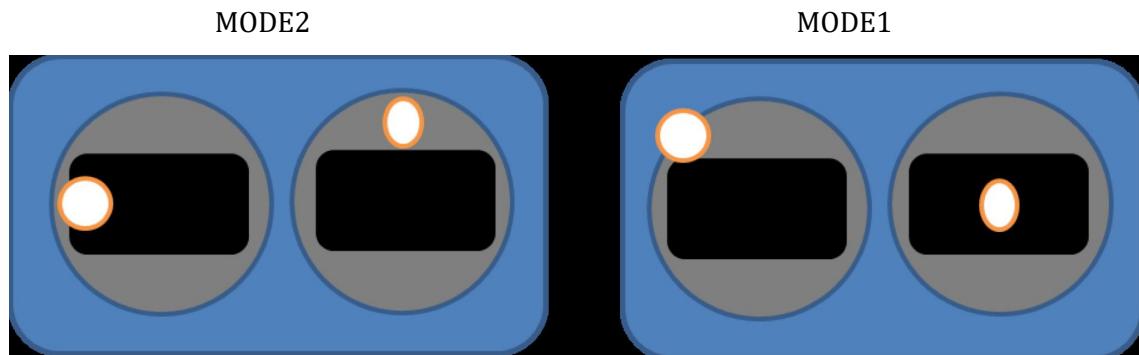


2.VTX serial port opens. The protocol is selected according to its own VTX protocol.

Identifier	Configuration/MSP	Serial Rx	Telemetry Output	Sensor Input	Peripherals
USB VCP	<input checked="" type="button"/> 115200 ▾	<input type="button"/>	Disabled ▾ AUTO ▾	Disabled ▾ AUTO ▾	Disabled ▾ AUTO ▾
UART1	<input type="button"/> 115200 ▾	<input type="button"/>	Disabled ▾ AUTO ▾	Disabled ▾ AUTO ▾	VTX (IRC Tran ▾ AUTO ▾
UART2	<input type="button"/> 115200 ▾	<input checked="" type="button"/>	Disabled ▾ AUTO ▾	Disabled ▾ AUTO ▾	Disabled Blackbox logging VTX (TBS SmartAudio) VTX (IRC Tramp) Camera (RunCam Protocol) Benewake LIDAR

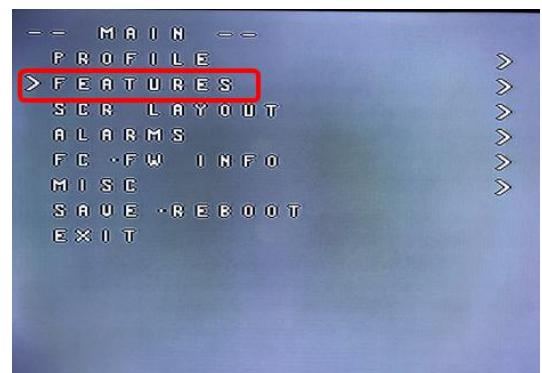
3.Use OSD to adjust VTX

which displays information like battery voltage and mAh consumed while you fly. In addition, the Betaflight OSD can be used to configure the quadcopter, making in-field adjustments and tuning more convenient.



The graphics above show the stick command to bring up the OSD menu. The stick command is: throttle centered, yaw left, pitch forward. The exact stick command therefore depends on which mode your transmitter sticks are in.

In the OSD menu, use pitch up/down to move the cursor between menu items. When a menu option has a > symbol to the right of it, this indicates that it contains a sub-menu. Roll-right will enter the sub-menu. For example, in the screen to the right, moving the cursor to “Features” and then moving the roll stick to the right will enter the “Features” sub-menu.



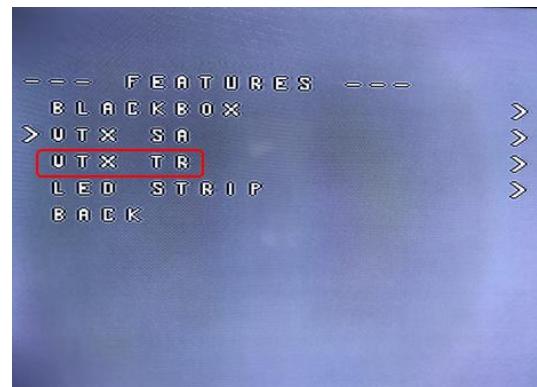


If you are using a video transmitter that supports remote configuration, enter the “Features” menu to configure the vTX. From there, enter either “VTX SA” if you are using SmartAudio (TBS Unify) or “VTX TR” if you are using IRC Tramp Telemetry.

To adjust PIDs, rates, and other tuning-related parameters, enter the “Profile” sub-menu.

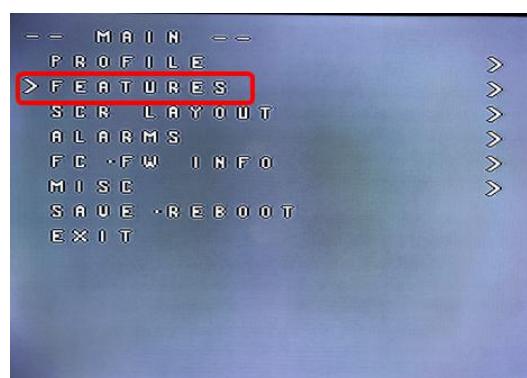
In the “Scr Layout” sub-menu, you can move the OSD elements (like battery voltage, mAh, and so forth) around on the screen.

The “Alarms” sub-menu lets you control when the OSD will try to alert you that battery voltage is too low or mAh consumed is too high.



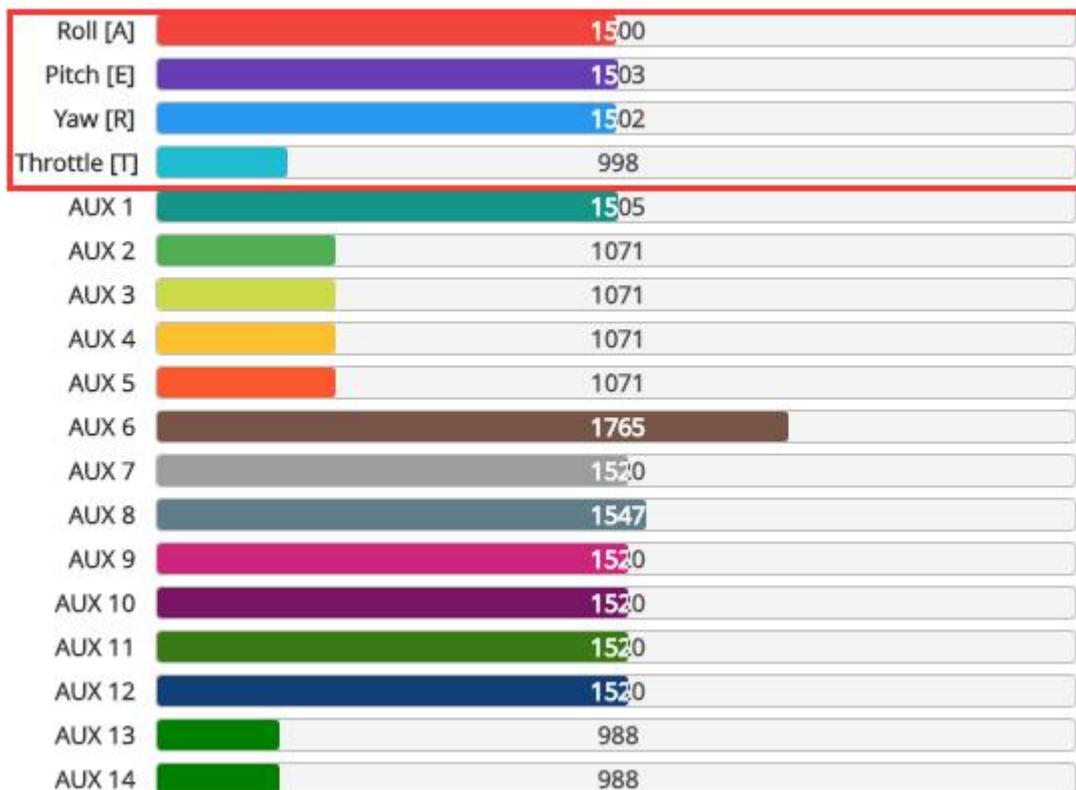
When a parameter can be modified, the parameter's current value will be shown on the right-hand side of the screen. In this case, roll left/right will adjust the parameter up and down.

The screen to the right shows the current vTX settings. From here, you can change the frequency band, channel, and power level of the video transmitter. After making the changes, move the cursor to “Set” and press roll-right to confirm the settings.



11.Check receiver signal

1.Click  Receiver Check the remote control output signal



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)

Modes WIKI

Use ranges to define the switches on your transmitter and corresponding mode assignments. A receiver channel that gives a reading between a range min/max will activate the mode. Remember to save your settings using the Save button.

Show/hide unused modes

ARM AUX 1 ▾  Min: 1300 Max: 2100

ANGLE AUX 1 ▾  Min: 1300 Max: 2100

13.OSD settings

1. Click  OSD the OSD Settings, according to the need to choose, drag the OSD schematic diagram of the parameters can be adjusted.

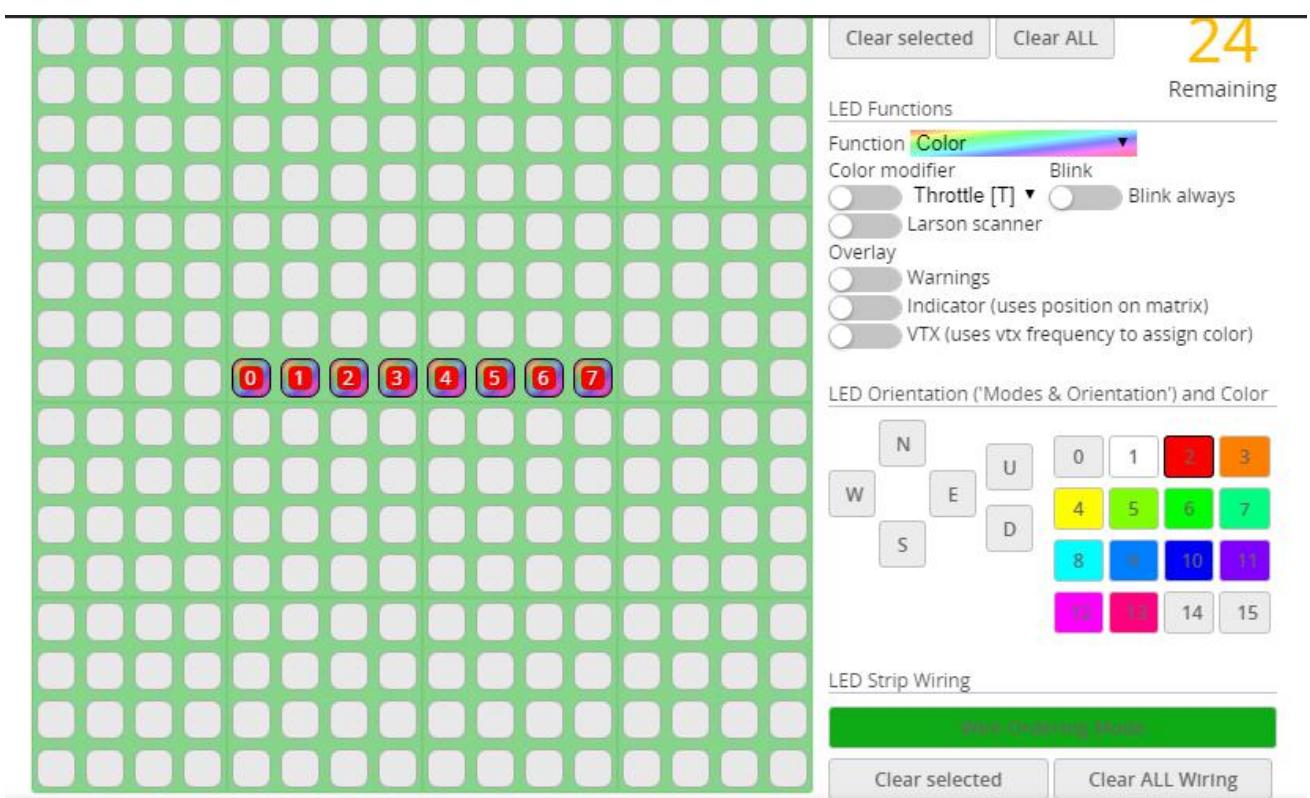


14.LED settings

1. Click  Configuration Turn on LED support



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



15.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