

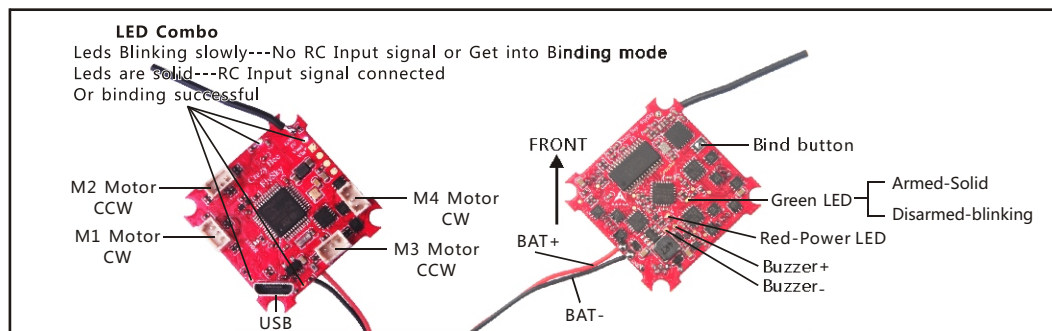
Crazybee f3 flysky controller board manual

Crazybee F3 flight controller is a Ultimate version for 1S Whoop brushless racing drone, it's the world first Tiny whoop size brushless flight controller with Receiver/4in1 ESC/OSD/ Current sensor all in one design, include all your needs for FPV racing drone.

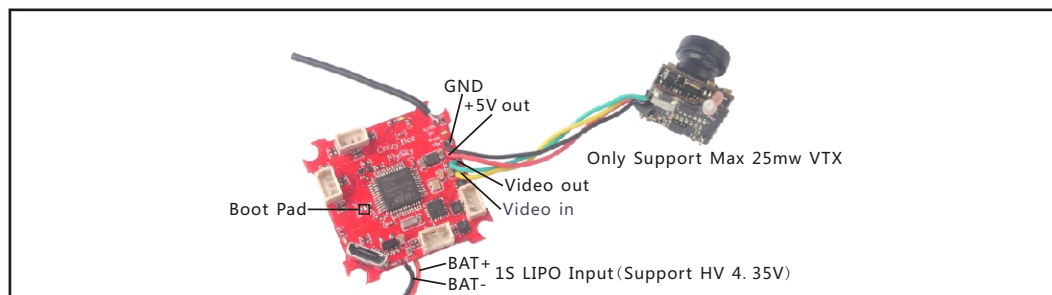
Notes:

The receiver connection will be unstable while the USB of the flight controller is plug into computer. So it can't be armed when connect to Computer, don't worry about that , disconnect the USB and then it will works normal.

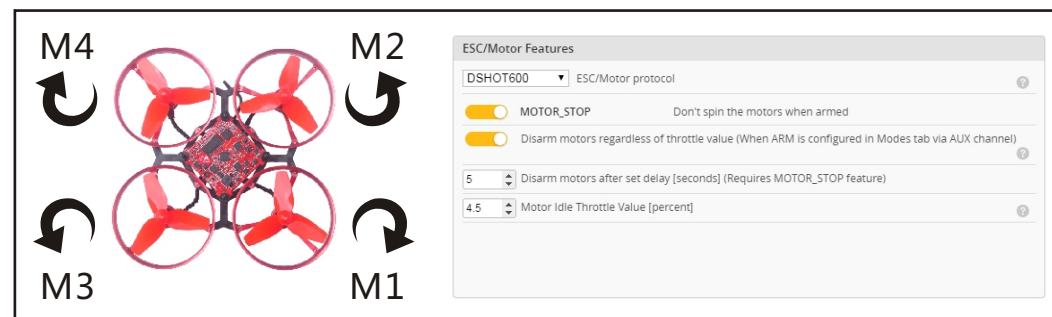
1.Connection and LED



2.Camera connection

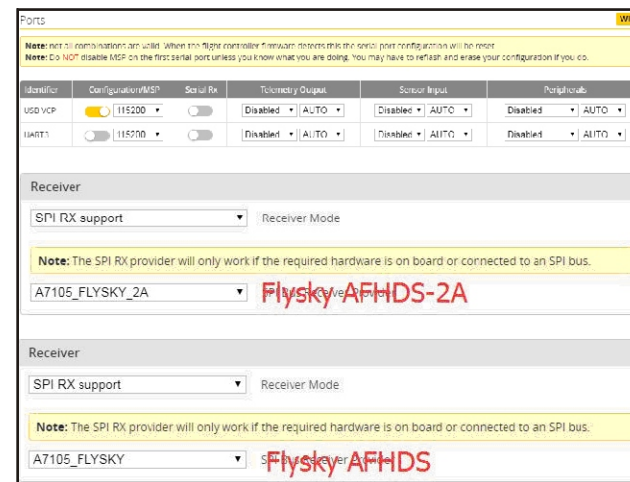


3.Mixer type and ESC/Motor protocol



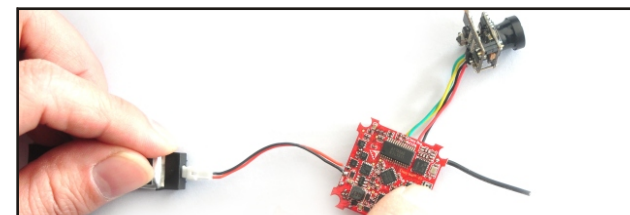
4.Receiver configuration

Please set Receiver mode to be SPI RX Support from the Configuration tab of the Betaflight Configurator, then select A7105_Flysky_2A Provider for AFHDS-2A Protocol Radio transmitter or Select A7105_Flysky Provider for AFHDS Protocol Radio transmitter, don't enable Serial RX since the CRAZYBEE Flight controller is integrated SPI BUS Receiver.

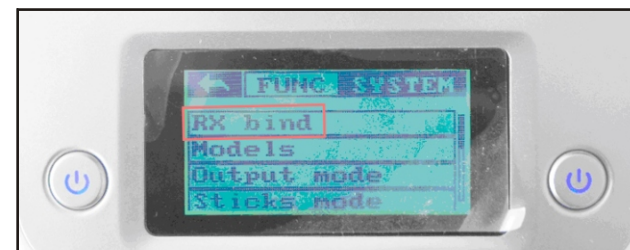


5.Binding procedure:

1.Power for the flight controller while holding the bind button, the LED Combo(2 red led and 2 white led) will blinking slowly, this indicate the Crazybee F3 Flight controller flysky version is in binding mode and then release the bind button

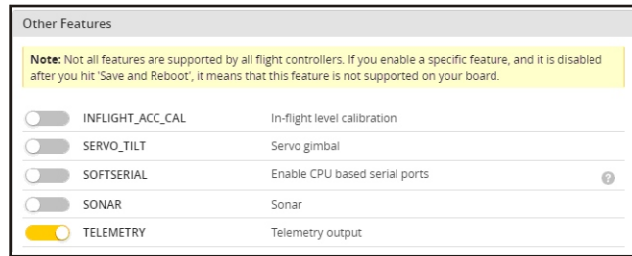


2.Turn on your Flysky transmitter, and Choose receiver mode AFHDS-2A or AFHDS according to your Betaflight receiver configuration(A7105_Flysky_2A=AFHDS-2A, A7105_Flysky=AFHDS)
3.ENT RX [BIND] to binding with the Crazybee Flight controller, the LED Combo(2 red led and 2 white led) will getting to be solid on the flight controller, this indicate binding successfully, the AFHDS-2A radio will auto exist the binding mode but the AFHDS radio should exist binding mode by yourself.

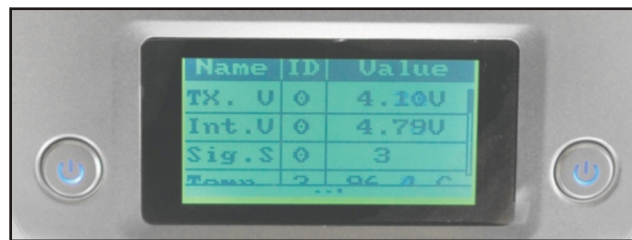


6.Receiver Telemetry Configuration

1.Just enable Telemetry from the configuration of Betaflight configurator



2.After binding successful, turn on the Flysky Transmitter and Move to the Telemetry display interface ,you can see all the telemetry info

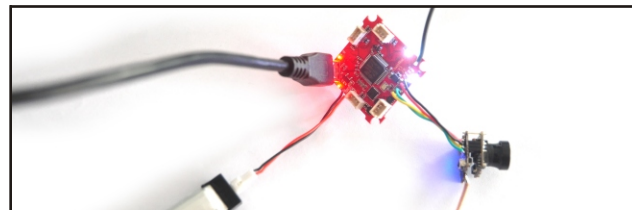


7.ESC Check and Flash firmware

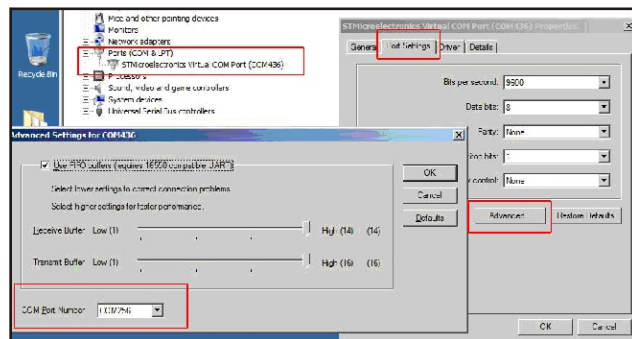
1.Download New release Blhelisuite from:

<https://www.mediafire.com/folder/dx6kfaasyo24l/BLHeliSuite>

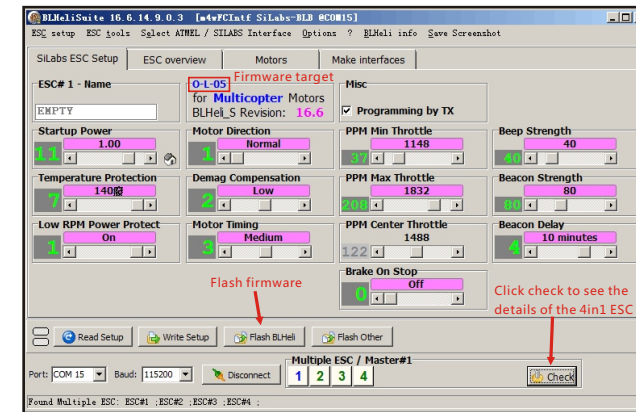
2.Connect the CRAZYBEE flight controller to computer and power for it with 1S Lipo battery



3.Open the Device Manager of your computer, find the Ports, please make sure the Com port Serial Number is under 255, otherwise it will can't connect to the BLHELISUITE. You can change the port serial number like the following step :

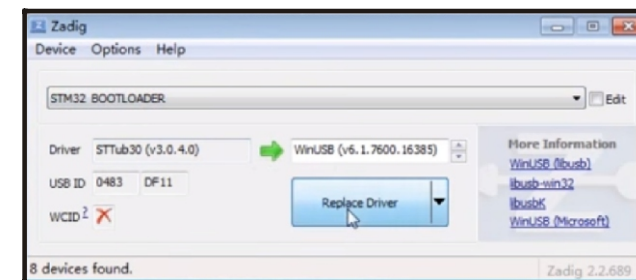


4.Open the BLHELISUITE, Select SILABS BLHeli Bootloader (Cleanflight) from the third tab on the top side. Then Select the right Serial com port and Click connect. You can also Flash the new release BLHeli_s firmware via the BLHELISUITE, the firmware Target is "O-L-05"



8.Flight controller firmware update

- 1.Install latest STM32 Virtual COM Port Driver <http://www.st.com/web/en/catalog/tools/PF257938>
- 2.Install STM BOOTLOAD Driver (STM Device in DFU MODE)
- 3.Download the BETAFLIGHT FIRMWARE for Crazybee F3 Flight controller from website and Open Betaflight configurator and load Local firmware
- 4.There are 2 ways to get in DFU Mode: 1). solder the boot pad and then plug USB to comper 2).loading betaflight firmware and hit "flash" , then it will getting into DFU Mode automatically.
- 5.Open Zadig tools to replace the drivers from STM32 Bootloader to WINUSB Driver.
- 6.Reconnect the flight controller to the computer after replace driver done , and open Betaflight configurator, loading firmware and flash.



***We will update the firmware for Crazybee F3 and release to our website in time**