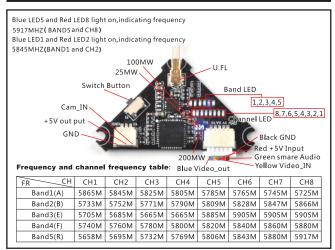


Specifications Brand Name: Eachine Item Name: 25 75mm Brushless Whoop racer drone BNF Wheelbase: 75mm Size: 98mm*98mm*36mm Weight: 33g(without battery)

VTX Bands and Channels setup



There are 3 ways to switch the vtx channels:

1.Long press the switch button to change the Band of the VTX, shorter press the switch button to change the channels of the VTX.

(Can't save ,it will lost the channel while re-power for the Trashcan since the Smartaudio funciton enalbed)

2.Go to Betaflight CLI, type the command:

Set vtx band=3

Set vtx_channel=1

Set vtx_freq=5705

save

Notes: The vtx_freq should match the vtx_band and vtx_channle as the VTX Channel list shows.

For example, if you set vtx_freq=5732, you should set vtx_band=5 and vtx_channel=3

3.Enable Smartaudio for UART1, then move the stick of the transmitter (THR MID+YAW LEFT

+ PITCH UP) to enter OSD Menu, Enter to Features, then enter to VTX SA to set VTX Band and channel

Identifier				Peripherals			
USB VCP	115200 🔻	Disabled ▼ AUTO ▼	Disabled ▼ AUTO ▼	Disabled ▼ AUTO ▼			
UART1	115200 ▼	Disabled ▼ AUTO ▼	Disabled ▼ AUTO ▼	TBS SmartAud ▼ AUTO ▼			
UART2	115200 ▼	Disabled ▼ AUTO ▼	Disabled ▼ AUTO ▼	Disabled ▼ AUTO ▼			



Binding procedure

1. Press and hold the bind button and then Plug the USB to power for the Crazybee F4 PRO FS flight controller, the LED Combo(2 red LED an 2 white LED) will blinking fast, this indicate the Crazybee F4 PRO FS flight controller is in binding mode and then release the binding button



Another easy way to getting into binding mode(Need the latest Firmware):

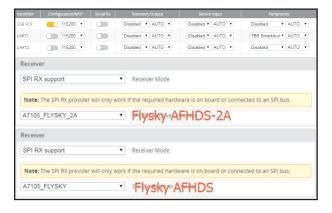
Plug usb and go to the CLI command in the Betaflight configurator, then type "bind_rx_spi", the Crazybee F4FS Pro flight controller will getting into binding mode, and then you just make the Flysky transmitter to Binding with it.

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 F4 POR 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.



Receiver configuration

Please set Receiver mode to be SPI RX Support from the Configuration tab of the Betaflight Configurator, then select A7105_Flysky_ZA Provider for AFHDS-ZA Protocol Radio transmitter or Select A7105_Flysky Provider for AFHDS Protocol Radio transmitter, don't enable Serial RX since the Crazybee F4 PRO Flight controller is integrated SPI BUS Receiver



Arm/Disarm the Motor

1. The Default Arm/Disarm switch for Trashcan is AUX1(Channel 5), and you can also customize it with Betaflight Configurator.



2. Set Arm/Disarm switch for your Flysky Radio: Move to the Aux.channels interface, Set "SWA" or "SWB" or "SWC" switch etc. for Ch5 to ARM/DISARM the motor.

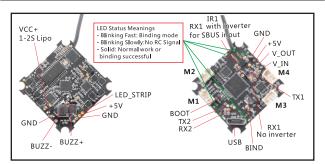


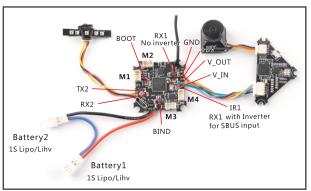
3. The default channel map for Trashcan Flysky version is AETR1234, please make sure your transmitter is matched, otherwise it will can't be armed. Toggle the AUX1 Switch, the Green LED on the flight controller will getting to be solid, this indicates the motor was armed. And also you can found "Armed" displayed on your FPV Goggles or the FPV Monitor. Please make sure keep the Trashcan level before arming. Be careful and enjoy your flight now!





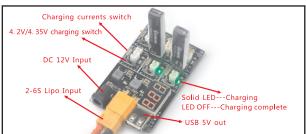
Flight controller connection diagram



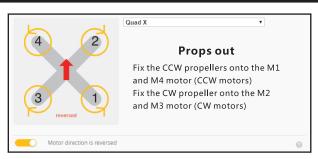


Charger the Lipo Battery





Mixer type and ESC/motor protocol





Default PID setting

	Proport	tion	alntegra						r & C Rate		Super Rate	Max Vel [deg/s]	RC Expo
Basic/Acro													0
ROLL	46	-	45	\$	25 \$	-	60	\$	1.20	<u></u>	0.75	\$ 960	0.00 \$
PITCH	50	-	50	‡	27 \$	A.	60	*	1	*	0.75	\$ 960	1
YAW	45	-	100	‡	0 \$	h.	100	-	1.30	-	0.80	\$ 1300	0.00 \$

ESC Check and Flash firmware

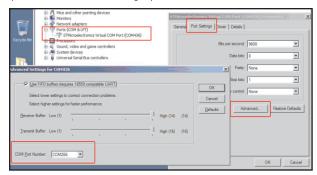
1.Download New release Blhelisuite from:

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

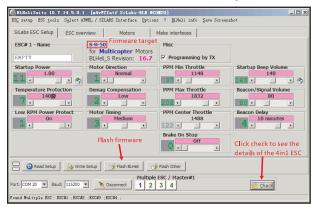
2. Connect the Crazybee F4 PRO flight controller to computer and power for it with battery



3.Open the Device Manager of your computer, find the Ports, please make sure the Comport Serial Number is under 255, otherwise it will can't connect to the BLHELISUITE. You can change the port serial number like the bellowing 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 BLHEILISUITE, the firmware Target is "S-H-50"



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. Open Betaflight configurator and choose firmware target "CrazybeeF4FS", then select the firmware version.

 $4. There \ are\ 2\ ways\ to\ get\ in\ DFU\ Mode:\ 1).\ solder\ the\ boot\ pad\ and\ then\ plug\ USB\ to\ computer\ 2).$

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 F4 PRO and release to our website in time.

"Flip over after crash" procedure

Set one channel of your radio transmitter to activate the Flip over function in the Mode tab of Betaflight configurator.



