

1

Safety

- Please keep the propeller away from your body and others all the time when the battery is connected.
- It is suggested that you remove the propeller when you are working on the airplane with the battery connected.
- It is suggested that you remover the pinion when you are working on a helicopter with the battery connected.
- Please observe all local laws regarding the flying of remote control airplane.
- Never fly over others or near crowds.
- Before beginning flying, turn on the transmitter BEFORE powering on the receiver. When finish the running, power off the receiver BEFORE turning off the transmitter.
- Never disconnect the battery pack while the brushless motor is running, as this could cause damage to the speed controller and/or motor. And such damage would not covered under manufacturer's WARRANTY.

Features of Fulcrum V2 ESC

- 32-bit Microprocessor with up to 80MHz frequency.
- 4-15S Lipo support
- Max continuous current 300A / 350A in full throttle Active FreeWheeling optional
- Motor PWM frequency 8-32K Hz
- Throttle resolution up to 1uS
- Throttle signal refresh rate up to 1K Hz
- Integrated RPM sensor to simplify the wiring for external Governor
- Optimized the Governor Algorithm to ensure the head speed more stable
- Fully CNC aluminum housing to efficient the heat dissipation.
- Built-In data Logger (logging parameters: battery voltage/ current/throttle output/temperature/motor
- RPM)
- Combine with WiFi dongle (sold separately) to program setting the parameters of esc and telemetry the real-time flight data to any kind of smart cell phone
- Max RPM 240000 with 2 pole motor (Heli Mode: Max electric RPM 160000)

pecifications of	Fulcrum	V2 ESC
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ESC	Voltage	Conti . Amp	Surge Amp(5s)*	BEC	Size(mm)	Weight (incl.wires)
Fulcrum V2 300A	4-15S Lipo	300amp	350amp	Couple- OPTO	119*73 *26	400g

* Surge current could be reached under the condition of ESC in contact with 5mph airflow of 25° C (77F) or cooler air at full throttle.

Install your ESC

Add battery connector

You have to attach a quality battery connector of your choice to the red (positive) and black (negative) of power wires. Well solder the connectors to the wires and ENSURE THAT POLARITY IS CORRECT (red wire to battery red wire, black wire to battery black wire). Follow the instructions provided with battery connector.

Connect ESC to motor

Suggested to solder quality and corresponding size golden bullet connectors for your motor to the motor wires coming from ESC. *Swapping any two motor wires connection can change rotation direction.

Connect to receiver

Connect the receiver lead (consisted of brown, red and orange small wires with a black plastic connector on the end) to throttle channel of receiver in right polarity, brown wire to negative, red wire to positive, orange wire to signal.

Fulcrum V2 HV ESC are OPTO, so separate receiver battery or UBEC to supply power for receiver is required.

Mounting the ESC

Recommend to use Velcro to fix the ESC on airframe for easy removal. keep the good airflow around the ESC.

Calibrating throttle range of TX

You **HAVE TO** complete throttle range calibration before use a new ESC at first time, and when change a new radio.

- **1st:** Connect ESC to motor, plug receiver lead of ESC to throttle channel of receiver.
- **2nd:** Push joystick of transmitter to max throttle position, power on transmitter.
- **3**rd: Power on receiver, connect ESC to battery. Motor emits three beeps in drop tones. J
- 4th: In the following, motor will emit four long beeps in flat tones. $\downarrow \downarrow \downarrow \downarrow \downarrow \downarrow$

During any one beep of the four long beeps, pull down joystick to zero position immediately.

5th: Then motor emits two beeps in up tones. Calibrating is completed, it's ready to fly.

Parameters features

Fulcrum V2 ESC is with default factory settings which are recommended for most applications. The programming options are provided for obtain optimum performance in different setup.

Low voltage cutoff

Option 1: Auto	Option 2: 4s Lipo(default)
Option 3: 5s Lipo	Option 4: 6s Lipo
Option 5: 7s Lipo	Option 6: 8s Lipo
Option 7: 9s Lipo	Option 8: 10s Lipo
Option 9: 11s Lipo	Option10: 12s Lipo
Option 11: 13s Lipo	Option12: 14s Lipo
Option 13: 15s Lipo	Option14: 16s Lipo
Option 15: 17s Lipo	Option16: 18s Lipo
Option 17: 19s Lipo	Option18: 20s Lipo

Recommended to set LVC at exact Lipos series number for better protect Lipo packs from over-discharging. ONLY WHEN battery packs are fully charged, 'Auto' can detect Lipo cells number correctly and it is suggested

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Lipo cell Cutoff Voltage

Option 1: 2.5v	Option 2: 2.6v
Option 3: 2.7v	Option 4: 2.8v
Option 5: 2.9v	Option 6: 3.0v (default)
Option 7: 3.1v	Option 8: 3.2v
Option 9: 3.3v	

Current Limiting

Option 1: High	Low over-current threshold, will shut down rapidly
Option 2: Medium (default)	Moderate over-current threshold, will shut down after a slight delay. Recommended for inrunner motors.
Option 3: Low	High over-current threshold, will shut down after a slight delay,. Recommended for outrunner motors. Only experienced modelers should use this option.
Option 4: disabled	Current limiting detection disabled. Only experienced modelers should use this option.

* Default setting is recommended. If you change the setting, damage to the controller as a result of over current will be not covered by the manufacturer's warranty.

Brake Type

Option 1:	Brake disabled is mainly used for helicopters.
Disabled (default)	
Option 2:	Soft brake provides 50% of full braking power. General
Soft brake	aircraft use, with fixed or folding prop
Option 3:	Hard brake is 70% braking power. Direct drive applica-
Hard brake	tions where more braking power is required. Hard
	brake should only be used below 12V.

Timing Advance

Option 1: Low (0°~15°)	Recommended for lower pole count motors. Gives more power and slightly less efficient.	
Option 2: middle (5 °~ 20 °)	Recommended for most motors .Gives a good balance of power and efficiency.	
Option 3: High (15° ~ 30 °)	Recommended for most of higher pole count motors	
Option4:Auto(default)	Recommended for most of all brushless motors.	
Option 5: 0°; Option 6: 2°; Option 7: 4°; Option 8: 6°; Option 9: 8°; Option 10: 10°;		

Option 11: 12°; Option 12: 14°; Option 13: 16°; Option 14: 18°; Option 15: 20°; Option 16: 22°; Option 17: 24°; Option 18: 26°; Option 19: 28°; Option 20: 30°

 \bigwedge 0° and 30° timings are for special motors. ONLY when motor manufacturer requests the special timings, they can be used.

Cutoff types

When battery voltage reaches cut-off voltage the motor		
will shutdown immediately. Motor can be restarted by closing the throttle to the lowest position and then		
		move the throttle as normal.
When battery voltage reaches cut-off voltage, the ESC		
will slowly reduce motor power to zero, you will no-		
tice a decrease in power and it is time to land, the		
throttle maintains its full linear.		

Start types

Option 1:Soft start	Recommended for helicopters
Option 2:	Recommended for most of the fixed or folding
Standard start	prop airplanes, and some helicopters.
(default)	
Option 3: Fast start	Recommended for fastest startup.

PWM switching rate

Option 1: 8 KHz (default)	Recommended for most brushless motors
Option 2: 10KHz	Recommended for low inductance motors
Option 3: 12KHz	
Option 4: 16 KHz	Recommended for very low inductance motors
Option 5: 20 KHz	
Option 6: 24 KHz	
Option 7: 28 KHz	
Option 8: 32 KHz	

Fly Modes

Option 1: Fix Wing (default)	Recommended for fixed wing aircraft and EDF
Option 2: External Governor	ESC turn over the throttle signal to external FBL controllers such as VBar, Skoo- kum,MB,BeastX etc
Option 3: Governor	ESC Internal Governor

Active FreeWheeling

Option 1: (default)	OFF	
Option 2:	ON (helicopter mode)	

Active FreeWheeling comes in when, instead of running at partial throttle through the FET body diodes, as one FET switches off, the "freewheeling" diode switches on to allow the "freewheeling" current to flow through it instead of it's body diode. Since the resistance of the FET is much much lower than its body diode, so much less heat is dissipated. ESC's that are equipped with active freewheeling are able to operate over a wider range of throttle percentages due to the more optimized PWM algorithm that is used. This means that you can run lower head speeds without having to re-gear or worry about your ESC blowing up! *We strongly recommend you to option Active Freewheeling 'On' as you option the Governor Mode (helicopter mode)*

Velcom	e 2.Par	ameter Setting	3.Logger Configuration	4.Show the Record	5.Upgrade	1	
Ĩ	KingKong series						
	Firmware Version:	AHKA 3	1722 13H4 200	5	Heli Mode:		
	LVC:	4 Lipo	Current Limiting:	Medium	▼ Spool Up Rate:	Level 5	Ŧ
	Lipo cell Cutoff Voltage:	3.0V	Timing Advance:	Auto	Governor Gain:	Grade 9	~
	Brake Types:	No Brake	Startup Type:	Standard	▼ HS Change Rate:	Standard	Ŧ
	Cutoff Type:	Hard Cutoff	▼ PWM Rate:	8 KHz	AR Recover Time :	Disable	~
	Flight Mode:	Fix Wing	Active Free	ON	>		
	Status:		Throttle Rang	je: 2040	uS Throt	tle Cal	
		Default Value				Update	e

There are two Governor Modes in Flight Mode, they are: **External Governor** and **Governor**.

External Governor

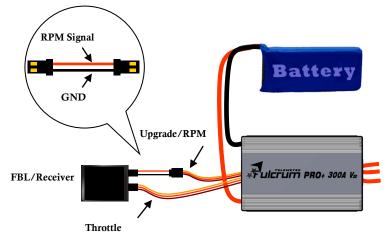
When you option this one, Fulcrum V2 ESC will act as an ESC without Governor function, ESC's governor function will be taken over to outside FBL system (such as Vbar/mini Vbar/Skookum/MB/BeastX). in this case, the start type have to be set with 'soft start' and only one of Heli mode parameters can be option is: Spool Up Rate.(see the following screenshot).

Welcome	e 2.Par	ameter Setting 3.	Logger Configuration 4.	Show the Record	d 5.U	pgrade		
Γ	KingKong series —							
	Firmware Version:	АНКА 3722	! 13H4 2000		2	Heli Mode:		
	LVC:	4 Lipo 💌	Current Limiting:	Medium		Spool Up Rate :	Level 5	
	Lipo cell Cutoff Voltage:	3.00	Timing Advance:	Auto	•	Governor Gain:	Grade 9	<u> </u>
	Brake Types:	No Brake 💌	Startup Type:	Soft Start		HS Change Rate :	Standard	-
	Cutoff Type:	Hard Cutoff	PWM Rate:	8 KHz	•	AR Recover Time :	Disable	~
	Flight Mode:	External Governo 🔻	Active Free Wheeling:	ON	•			
	Status:		Throttle Range	2040	uS	Throt	tle Cal	
		Default Value					Update	e
L		-					-	
Set Con	1							



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RPM sensor: KingKongIII Pro has a built-in RPM sensor to provide the rpm signal to the third Flybarless devices such as Vbar/mini Vbar / Skookum/ BeastX Plus, and the RPM signal specification as following:



▲ Please read instructions of Flybarless devices carefully and understand the specifications before connecting ESC RPM sensor cable to the devices.

Governor

The Governor mode acts as an RPM control. Throttle stick position determines the RPM that the motor runs and the controller will attempt to hold that RPM regardless of load changes and battery voltage decreasing . Thanks to Active Freewheeling ,the motor RPM control could be available as long as the throttle level exceed 30%. In Governor Mode, the' brake' MUST always disable, 'Soft Cutoff' and 'Soft Start' MUST be optioned.

Note: we strong recommend to open the Active Freewheeling when Governor is option

Spool Up Rate: indicates the startup spool up rate, the default setting is Level 3, higher level numbers means to approach the head speed faster.

Governor Gain: The default setting is grade 9, the higher grade number means the higher gain.

<u>Head Speed Change Rate:</u> The default setting is standard, this setting indicates the change rate between 2 different head speed switching (for example, throttle curve switch up from Normal to Idle1 or Idle1 to Idle2, vice versa). The "Head Speed Change Rate" value also determines the speed at which the head recovers.

<u>AR Recover Time</u>: is Autorotation Recover Time, it also can be understood as the recover time from Autorotation (TH=0) to Normal mode. The default setting is 'Disable', it indicates the AR is inactived.

10 to 60 Secs can be optioned to determine the recover time that Autorotation is actived, for example if you program the AR Recover Time to 30 secs, the AR will be available WITHIN 30 secs, in this period the motor can be ramped up to a preset head speed instead of soft startup, but more than this time (>30 seconds) will lead to the motor engaged with soft startup.

Throttle Calculator is a calculator to help you calculation the throttle curve according to your desired HS, Gear rate and motor poles. Please see the following screenshot:

Throttle Calculator:	×
Desired Head Speed: 2000 RPM	Exit
Motor pinion: 11	
Main Gear: 100 Thottle Position ESC Output	
Governor: High GV V Battery Voltage:	v
Motor Poles: 10 Motor KV:	
Thottle Position 71 % ESC Output	%

Furthermore, fill out the battery voltage and motor KV can help you find out the ESC power output match with the pre-set head speed, HiFei recommends for <u>optimum</u> the ESC output to motor about 80% power, it ensure the ESC has enough reserve to compensate the battery voltage decreasing and load changing. Please see the following screenshot:

Sarottle Calculator:	a Carloundar I Alban De	X
Desired Head Speed:	2000 RPM	Exit
Motor pinion:	11	
Main Gear:	100	
Thottle Position	ESC Output	
Governor: High GV	Battery Voltage:	44.4 V
Motor Poles:	10 Motor KV:	520
Thottle Position	71 % ESC Output	79 %

* Incorrect gear rate/motor KV probably results the ESC Output haven't enough reserve to compensate battery voltage decreasing and load change, in the case there is a tab pop out to indicate 'Head Speed Out of Control Range'. Generally you can Inc/Dec the tooth of motor pinion or Inc/Dec the Desired Head Speed to get the best match results. Please carefully check your heli configuration, make sure the desired heed speed is under control.

Throttle Calculator:	Case."	×
Desired Head Speed: Moto Hifei	2000 RPM	Exit
Gove .	Out of Control Range	44.4 V
Moto 		520

HiFei Software V6.0 operation

HiFei software V6.0 is specially for easy programming Fulcrum V2 ESC. (Please download V6.0 from Hifei official website www.hifei.com) What can be realized by V6.0? Fully program Fulcrum V2 (incl. heli mode) Upgrade firmware of Fulcrum V2 View logged data by Fulcrum V2

Computer OS request

- PC with Windows 7/8/10 operation system
- · CD-ROM drive (or access to Internet)
- · Available USB port
- 8 Megabytes hard disk space

•Computer screen resolution with 800X600, 1024X768(recommended), 1280X1024

Hardware request

• Fulcrum V2 series ESC

• Hifei USB adaptor (it's a necessary adaptor to connect ESC to PC, purchase separately)

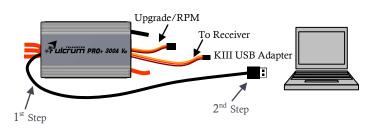
Install HiFei V6.0 to PC

Download the V6.0 setup software from Hifei website and finish the installation according to the popped-up window guide.

- ▲ If PC is 64 or 32 bit, when V6.0 is completed installation, It is requested to back to directory folder of HiFei V6.0 and install driver of 64 or 32 bit by hand separately.
- ▲ If PC OS is Windows 7, We recommend you to installed V6.0 as administrator
- ▲ If you once changed PC font to big size, then it needs to change it to original size. Because big size font would possibly cause software interface cannot be showed in full.



Connect ESC to PC



1st : Plug the USB Adapter to miniUSB port of ESC.

 2^{nd} : Plug the USB Adapter to an USB port of PC.

* WARNING DO NOT USE STANDARD USB CABLE

V6.0 tab 1 Welcome

- Open HiFei V6.0 by double clicking on the shortcut icon. - Click on 'Open Device'.

*(If connection is right and successful

*(If connection is right and successful, Fulcrum V2 ESC model will be displayed at the box below)

- It's ready to use V6.0 for more operation

V6.0 tab 2 Parameter setting

Click on tab 2 **Parameter Setting** to get into programming interface, select the options you want to change by down arrow, then click on **Update** to save the setting.

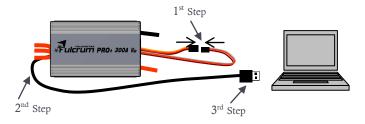
Welcome 2.P	arameter Setting 3	Logger Configuration	4.Show the Record	5.Upgrade	1	
KingKong series						
Firmware Versio	n: AHKA 392	5 10MP 1003	7	- Heli Mode:		
LVC:	2 Lipo	Current Limiting:	Standard	▼ Spool Up Rate:	Level 1	-
Lipo cell Cutoff Voltage:	2.5V	Timing Advance:	Auto	▼ Governor Gain:	Grade 1	-
Brake Types:	No Brake	Startup Type:	Standard	▼ HS Change Rate:	Very Slow	~
Cutoff Type:	Hard Cutoff	PWM Rate:	8 KHz	AR Recover Time:	Disable	-
Governor Mode	Fix Wing	Active Free Wheeling:	OFF	•		
Status:		Throttle Rang	e: 712	uS Thro	ttle Cal	
				Default Value	Update	
				Dendar Value	oposic	

V6.0 tab 5 Upgrade

In **tab 5**, you can upgrade ESC's firmware if there is a new firmware for the ESC be released.

When upgrade the ESC, it needs to connect the cable to receiver with upgrade cable together. (Pls refer to the below diagram)

Each ESC has specific firmware and be different. You have to make sure the upgrade firmware your download is correct, otherwise possibly causing ESC damage.



1st: Short upgrade/rpm cable with receiver lead.
2nd: Plug the USB Adapter to miniUSB port of ESC.
3rd: Plug the USB Adapter to an USB port of PC.

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0 2 2 3 4 6 6 5 2	04810681
3.Welcome 2.Parameter Setting 3.Logger Configuration 4.Show the Record 5.Lographie	1.Welczen 2.Parameter Setting 3.Logger Configuration 4.Show the Second 5.Subgrade
Specify the Upprade Ple	Specify the Upgrade File
Ournet Venice: A48A 1224 1390 0000	Ournert Version: 0.010.0 13224 13200 0000
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Ligned 26.4	Royale 2016 The Art Sec.
Set Can Fast	Set Con Fart gene Dones pit
Rawly ANDA122411066000 [10:51:58]000	Tendy ASSISSALISEO00 10.54:20 000 /

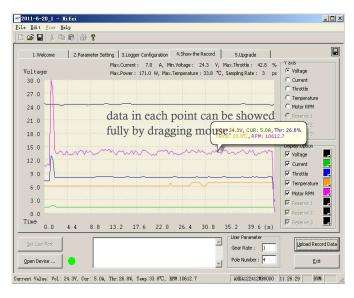
V6.0 tab 4 Show the Record

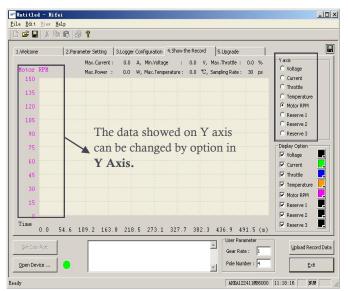
Show the Record will read the logged data of latest fly by ESC.

- Firstly, it is requested to input the **Gear Ratio** and motor **magnetic Poles** at the bottom.

- Click on Upload the Record at right bottom.

- Click on **Yes**, then it begins to upload data and finish uploading in a short time.





To magnify a range of data for more clearly view. left click mouse on beginning point, and click again to the end point, the period of data will be magnified. Right click mouse once will recover to original display.



1.Welcome	2.Parameter Set	ing 3.Logger Conf	iguration 4	.Show the Record	5.Upgrade	1
Voltage 30.0 27.0 24.0					, Max.Throttle: 42.8 C, Sampling Rate: 3	% Y axis ps If Voltage C Current C Throttle C Temperature C Motor RPM
21.0 18.0						C Reserve 1 C Reserve 2 C Reserve 3
15.0 12.0 9.0						Display Option
6.0						Motor RPM
0.0 Time 20.0 2	20.3 20.7	21.0 21.3	21.7	22.0 22.3	22.7 23.0 (Reserve 2

V6.0 tab 3 Logger Configuration

Cycle Record

1) Not Reverse indicates when data logger memory space is filled up, it will stop logging.

2) Reverse indicates when data logger memory space is filled up, it continue logging data indefinitely by overlapping the former data and do a cycle. *Default setting is Not Reverse.*

Sampling rate means the times that data logger samples per second. *Default setting is 3ps.* *

* Higher sampling rate will fill up the memory space quickly and thus reduce the logging time when in 'not reverse' record type.

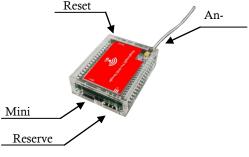
	Sampling Rate	Max logging Time	Mini running Time
	Once/ second	Approx. 68.1 minutes	> 60 seconds
Not Re-	Twice/second	Approx. 34.05 minutes	> 30 seconds
verse	3 times/second	Approx. 22.7 minutes	> 20 seconds
Record	4 times/second	Approx. 13.62 minutes	> 10 seconds
	10 times/second	Approx. 6.81 minutes	> 5 seconds
	15 times/second	Approx. 3.405 minutes	> 3 seconds
	30 times/second	Approx. 2.27 minutes	> 2 seconds

Minimum running Time means the minimum time that ESC is requested to run. The time MUST be longer than reference in above form. Too short running will cause ESC logs little data that cannot be displayed in PC windows.

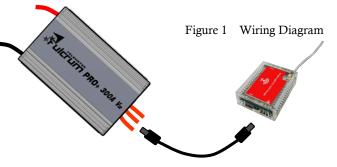
11-6-20_1 - Hi Kdit ⊻iew Hel ≱ 🖬 % 🖻	lp	
1.Welcome	2.Rarameter Setting 3.Logger Configuration 4.Show the Record 5.1	Upgrade
	Logger Parameters Cycle Record: not reverse Flight Times:	Y
	Status:	Update
1		
iet Com Port		glear Data
ben Device		Exit

Flight Times is the total times that ESC records data. ESC being powered on is regards as once.

HiFei WiFi dongle



Connect the WiFi dongle with Fulcrum V2 ESC



Hardware Request

Keep the length of USB cable no more than 500mm

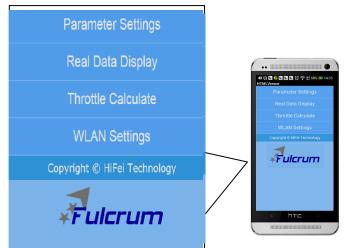
- Compatible to any kind of smart mobile phone, PAD or PC with iOS/Android/Windows Operation System
- Support all kind of browsers such as: Chrome, IE, Safia, Firefox, etc.

Connecting the WiFi Dongle

- Connecting the cable to ESC and WiFi dongle (Figure 1)
- Power on the ESC (the red LED of dongle will light a while and then black out), waiting more than 20 seconds till the green led on dongle start to blink.
- Option HiFei-Fulcrum in the WLAN list of your smart terminal
- Open your browser and input the default IP address & password as following:

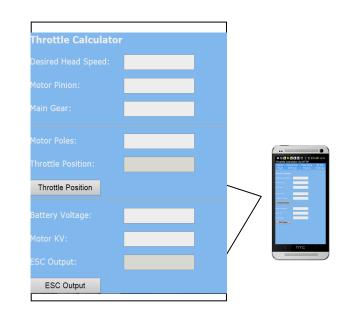
IP address <u>192.168.1.16:2015</u> *Password* <u>12345678</u>

• Entered into the Home Page



HiFei WiFi dongle (continuous)

	Home	e Page	
	Parameter Setting		
	Low Voltage Cutoff:	Auto 🔻	
	LVC / Per cell:	2.5 V v	
	Current Limiting:	sensitivity 🔻	
	Brake Type:	no brake 🔻	
_	Timing:	Low 🔻	
	Cutoff Type:	Hard Cutoff 🔻	
LViewer 9 Heal Data Throttle WLAN 9 Display Calculate Settings	Startup Type:	Soft Start 🔻	
der Dattegs narr Const. Aus	PWM Rate:	8 KHz 🔻	
n cardi 249 al an Londong caracterity al an en fossie al	Active FreeWheeling:	Disable V	
ter al and table a	Governor Mode:	Fixed Endpoints V	
ne denor de nor Northeling Dealth de Flora Fand (régistre d	Helicopter Mode		
nana (and) 🖉 Gare Gode I 🖉	Spool Up Rate:	Level 1 T	
Finite Brandon A	Governor Gain:	Grade 1 🔹	
a Delaat	HS Change Rate:	Very Slow	
< htc o	AR Recover Time:	Disable 🔻	
	Update Back to [Default UpLoad	



Throttle Calculator

Parameters Setting

Refresh

Start

Note: the updated parameters will be available only after the ESC is re-powered up.



Real-time Flight Data Telemetry

WLAN Setting

Note: After Updated the The AP name and IP Address, Please press Reset button in 1 second and release, the red LED will blink in 5 seconds and go to steady light, after that ,you have to re-power up the WiFi dongle to make the change available.

Q: It pops-up box ' Time out, device open failure' when click on 'Open Device' button.

A: There are three possible reasons to result from this problem. 1) First is wrong polarity connection between ESC receiver lead and USB linker. Please check if the connection is correct and tight. In addition, Fulcrum V2 ESC is OPTO, it is requested to connect ESC to battery pack when connect them to PC. 2) Second reason may because ESC were damaged in running. In this condition, please contact our after-service for repair. 3) At last, it may because USB Linker is damaged.

Q: It pops-up box 'Invalid Com Port' when click on 'Open Device' button.

A: It because com port for ESC connection device is wrong or occupied by other devices. Please open 'Device manager' of 'My computer' to check the right com port number or change the com port number which be occupied to an available port number. Then open V6.0, select the right com port number and save it.

Q: It cannot upload data and pops-up a box 'C:\Program files\V6.0\ xxx cannot be found'.

A: It because ESC run too short time and the logged data cannot be showed in window. Please clear the data and fly it again for a longer time than required minimum time.

O: In the process of uploading data, it stops uploading and pops-up an error box 'Program: C:\Program Files\Hifei V6.0\Hifei V6.0.exe This application has requested the Runtime to terminate it in an unusual way. Please contact the applications support team for more information.'

A: The problem is because V6.0 is installed to 'C' and the security setting of 'C' stops the uploading. There are three ways to solve the problem. 1) First, if PC has more than one hard partitions, then change to install V6.0 to other hard disks from "C". 2) If PC has only one hard disk 'C', you can try to install V6.0 to a flash disk. 3) Change security settings of 'C', select PC user as 'administrator' and let all the permissions of writing and reading below are allowed. Save the change. Then try to upload data again.

Page 6