Hermit 145 V2 Micro brushless FPV quadcopter



Hermit 145 V2 is a newly designed micro FPV quadcopter of only 158mm (Diagonal from motor center to motor center), its small size can make it fly in a relatively confined space easily. It is installed a 5.8G/300mw analog video transmitter (VTX) supporting 40 channels, an analog camera(120°), a flight control board supporting CleanFlight and BaseFlight firmware), a buzzer, three onboard full color LED tail lights, a compatible receiver (three options), a DCDC power, a integrated control board with OSD etc. In addition, its camera is orientation adjustable.

Features:

- 1) Weight: 84.0g (not including battery)
- 2) Flight weight: 112.0g (450mAh/25C/7.4V); 128g (850mAh/25C/7.4V)
- 3) Flight time: 9 minutes (450mAh/25C/7.4V); 12 minutes(850mAh/25C/7.4V)
- 4) Working voltage: 7V~8.4V (2S)
- 5) Diagonal from motor center to motor center: 158mm
- 6) Propeller diameter:90mm
- 7) ESC: MU-3A-L1(max working votage:8.4V)
- 8) STM32F103CBU6 main control/72MHz
- 9) Support an outside compass, sonar and GPS
- 10) Camera angle adjustable:+/- 25°
- 11) It uses brushless micro motors of high efficiency (5.6g, 4000KV)
- 12) There are 3 options for the integrated receivers: compatible DSMX/DSM2 receiver; compatible FUTABA SFHSS receiver, compatible FlySky AFHDS receiver (we are developing other compatible receivers at the moment)

Other features:

- 1) The battery can be changed and mounted by only one hand
- 2) Binding operation can be done by one hand too.

Functions for hardware

- 1) The integrated analog 5.8G/300mw video transmitter supports up to 40 channels (frequencies)
- 2) Supports ONESHORT125 high speed ESC mode
- 3) Supports changing ESC parameters or upgrading ESC firmware through flight control board
- 4) Supports setting up OSD parameters and upgrading OSD firmware;
- 5) Customer can add or change many kinds of compatible receiver according to their request.

Binding operation:

1) If what you ordered is the following receiver on your Hermit 145 V2 (old receiver, only compatible with DSM2-7CH), its binding operation is the following:

Press the binding switch on the receiver (green LED is on), then power FC board, release the binding switch, the green LED on the receiver flashes quickly (the receiver enters binding mode); Press the binding switch on the DSM2 transmitter and then turn on the power;

When the fast flashing LED on the receiver is off and then comes to steady bright on, it indicates the binding is succeed, or repeat the above process.

2) If what you ordered is any receiver (new version receivers) from the following picture, its binding process is like the following:



(From left to right: DSMX/DSM2-7CH compatible receiver; Futaba SFHSS-8CH compatible receiver; Flysky AFHDS-8CH compatible receiver)

Power Hermit 145 V2, long press the binding button on the compatible receiver, when the steady on red LED turns to flashing, release the binding button and it enters binding mode. Then make the transmitter enter binding mode (please check the binding mode on the manual of transmitter you are using), when the fast flashing red LED on the receiver stays steady on, it shows the binding is succeed, or repeat the above process.

Operation on how to change the frequency of 5.8G analog video transmitter:

The VTX frequency includes a group of frequency and its sub frequency, in this case, changing frequency needs to take 2 steps: 1) set up a frequency group; 2) set up sub frequency.

After Hermit 145 V2 is powered, all the 6 LED lights indicating VTX working come to on and then flash two times (the flashing LED ON/OFF status shows the working frequency of VTX). Long press the set switch till LED3 changes from ON to OFF, then release the switch (the ON/OFF status of the 6 LEDs shows the present working frequency of VTX) and it enters setting up mode for group frequency (the

yellow LED-A, LED-B and LED-C shows the mode), the yellow LED ON/OFF status will be changed by short press the switch each time, when the wanted frequency group comes out, long press the switch till all the LEDs are on the off status, then release the switch and enter the setting up mode for sub frequency (the red LED1, LED2 and LED3 shows this mode), short press switch each time can change the red LED ON/OFF status, long press the switch when the wanted sub frequency comes out till all of the LED are on OFF status, then 6 LEDs flashes two times (the flashing LED ON/OFF status shows the working frequency of VTX), which indicates the frequency setting up is finished.

Note: if what customer wants is to only set up frequency group or sub frequency, just long press the setting up switch when it enters group frequency setting or sub frequency setting, and then it enters next process.

Check the frequency operation of 5.8G analog VTX:

After Hermit 145 V2 is powered, all 6 LEDs come steady on and then flashes two times, then short press the switch and release it, the ON/OFF status of all 6 LEDs indicates the working frequency of VTX.

Group frequency	Sub frequency (red LED)							
,,,	000	001	010	100	011	101	110	110
000	5740M	5760M	5780M	5800M	5820M	5840M	5860M	5880M
001	5865M	5845M	5825M	5805M	5785M	5765M	5745M	5725M
010	5733M	5752M	5771M	5790M	5800M	5828M	5857M	5866M
010	5755W	57 JZIWI	577 TW	GE AEM	EQOEM	5020W	5037 W	5000W
011	570511	568511	566514	6545IVI	588511	5905M	5925IVI	5945IVI
101	5658M	5695M	5732M	5769M	5806M	5843M	5880M	5917M

The corresponding table for LED status and VTX working frequency (40 frequencies)

Note: "0" means LED OFF; "1" means LED "ON"



Power test picture for 5.8G analog VTX (26.4dBm@5.705G):

How to change the parameter of ESC and update the firmware of ESC:

You can change the ESC parameter and update its firmware when the firmware of Hermit 145 V2 is Cleanflight NAZE V1.12 version or above and the firmware of ESC is BLHeli v12.0 version or above. The detail operation is the following:

- 1) Turn the tail switch on Hermit 145 V2 to "FC", connect the power and connect the quadcopter to computer by USB cable.
- 2) Open BLHeli GUI software on your computer (ensure that CP2102 driver was installed and the connection with CleanFlight GUI was disconnected), select SILABS BLHeli Bootloader(cleanflight), and then select the serial number of Hermit 145 V2 (different computer comes with different serial number)

<u>Setup</u> ESC tools Select ATMEL / SILABS Interface A SILABS C2 (Toolstick)	Options ? BLHeli into Save Scre	enshot
 B SĮLABS C2 (4way-if) C SIŁABS BLHeli Bootloader (USB/Com) D SIL<u>A</u>BS BLHeli Bootloader (4way-if) 	Misc Rearming every Start X.X Programming by TX Motor Direction	Input Polarity
E SILABS BLHeli Bootloader (Cleanflight)	Normal	Positive
AIMEL BLHeli Bootloader (USB/Com) ATMEL BLHeli Bootloader (4way-if) ATMEL SK Bootloader (4way-if) ATMEL SK Bootloader (ArduinoUSBLinker) ATMEL SK Bootloader (ArduinoUSBLinker) ATMEL SK Bootloader (Afro/Turnigy USB Linker) ATMEL BLHeli Bootloader (Cleanflight) ATMEL ISP Interface (AVRDude)	The second secon	Beep Strength 120 Beacon Strength 200 201 Constrength 200 201 Constrength 200 200 201 Constrength 200 200 200 200 200 200 200 20
iovernor Target RPM HHR 70 % = 4873 rpm 80 Hotor @84% Lipo T	3600 1/2 6 1/2 8 1/2 64 1/2 81 1/2 lotor KV Pole Pinion M-Gear Comp.	PPM Max Throttle
Read Setup Write Setup Pack Bullel Com 3 Baud: 115200 Connect	Bash Other	

3)

4) Click "connect"on BLHeli GUI, then click "Read Setup", the following picture appears, click "OK", then you can change the parameter of ESC and update the firmware of ESC.

S <u>C</u> setup	ESC <u>t</u> ools S <u>e</u> lec	t ATMEL / SILABS Interface <u>C</u>	Options ? <u>B</u> LHeli info	Save Screenshot	
Labs ESC Set	up Motors Make in	iterfaces			
ESC# 1 - Na	ame	Unknown ESC for ??? Motors BLHeli Revision: xxx.	Misc Rearming every Programming by	Start TX	
Low Voltag	je Limiter	Startup Power	Motor Direction	Inpu	t Polarity
3.2	Volt / cell	x 1.00	Normal		Positive
<	>	Information		` × *	< >
Governor M	lode			Beep	Strength
	Tx	Found Multiple	ESC configuration in SiLa	bs mode:	120
	,	•	j		
Governor P	-Gain	S ESC# 1 : XP7A	- Rev. 14.3 - Multi	Beac	on Strength
7	× 1.00	[MAST	'ER]	200	200
• • • • •	Cala	ESC# 2 · YP7A	- Rev. 14.3 - Multi	Dent	na Delau
Governor 1-	-Gain	ESC# 2 : AF/A	- Kev. 14.5 - Mulu El	Beac	on Delay
7 <	>		-,	- 4	< >>
Governor R	ange	ESC# 3 : XP7A	- Rev. 14.3 - Multi	DDM	Min Throttle
	High	[SLAVE	E]		1.148 ms
L < 📃	>	ESC# 4 . YD7A	- Rev. 14.2 - Multi	37	< >
Governor T	arget RPM	SLAVE		PPM	Max Throttle
<u>THR</u> 70 %	= 4873 rpm	π			1.832 ms
180		Ū F	OK	208	< >
			UK		

Note: The updated firmware should be BLHeli V12.0 version or above, otherwise, you can not change or update ESC firmware through Hermit 145 V2.

How to change parameter of FC and update firmware of FC:

- 1) Turn the tail switch of Hermit 145 V2 to "FC", connect the quadcopter to computer through USB cable
- 2) Open CleanFlight GUI software on computer (ensure that CP2102 driver was installed and the connection with BLHeli GUI was disconnected), click "Connect", the following picture appears, then parameters of FC can be changed now.
- 3) Click "disconnect" and then click and the left of Cleanflight GUI, if the firmware is loaded locally, you don't need to select the hardware version; If the firmware is loaded online, you need to select the hardware version first, and then click "Load Firmware[Online]", after loading, click "Flash Firmware"



		– 🗆 🗙
CONFIGURATOR 11.0	COM3 ¢ 115200 ¢ Auto-Connect	Connect
2016-03-28 @ 18:47:29 Serial port successfully closed		Show Log
Cr Choose a Firmware / Board / Aver/ Choose a Firmware / Board / Aver/ Choose a Firmware / Board 1.12.0 ALLENVIIF 12016-2:2014:55 (stable) 1.12.0 COLUBRI RACE 2016-2:2014:55 (stable) 1.12.0 COLUBRI RACE 2016-2:2014:55 (stable) 1.12.0 COLUBRI RACE 2016-2:2014:55 (stable) 1.12.0 MOL 2016-2:20 14:55 (stable) 1.12.0 NAZE 2016-2:20 14:55 (stable) 1.12.0 NAZE 2016-2:20 14:55 (stable) 1.12.0 SPARKY 2016-2:20 14:55 (stable) 1.12.0 SPRACINGF 3MIN 2016-2:20 14:55 (stable) 1.12.0 SPRACINGF 30110-12:20 17:37 (stable) 1.11.0 ALLENVIIF 12015-11:29 17:37 (stable) 1.11.0 CC3D 2015-11:29 17:37 (stable) 1.11.0 NAZE 2015-11:29 17:37 (stable) 1.11.0 NAZE 2015-11:29 17:37 (stable) 1.11.0 NAZE 2015-11:29 17:37 (stable) 1.11.0 NAZE 2015-11:29 17:37 (stable)	able online firmware releases - Select the correct firmware appropriate for your board. If you are flashing board with bootloader pins shorted all configuration data currently stored on the board if selection of baud rate for boards that don't support the default speed or for flashing via bi Release-Candidates and Development Releases Working his firmware flasher. while flashing. icked. e firmware flasher. ngrades will wipe your configuration. ables from your FC. n power off the board, jumper the bootloader pins, power on, enable 'No reboot sequence', r, power on and connect (For all firmware except OPBL firmware). arget. Flashing a binary for the wrong target can cause bad things to happen.	enable 'Full chip
Port utilization: D: 0% U: 0% Packet error: 0 12C error: 0 C	Flash Firmware Load Firmware [Online] Load	d Firmware [Local]

If the firmware updating above is not succeed, the Bootload could get problem, we can fix it through the following way:

1) Disconnect the USB cable with Hermit 145 V2

- 2) Remove the receiver from Hermit 145 V2
- 3) Short connect "Boot" port with the port inside red round by cable.



- 4) Download the wanted firmware from this link:<u>https://github.com/cleanflight/cleanflight/releases</u> (Firmware on Hermit 145 V2 is V1.12.0-RC1 cleanflight_NAZE.hex)
- 5) Connect Hermit 145 V2 with computer by USB cable, then open Flash Loader Demo software (ensure that Cleanflight GUI software is closed), follow the operation of the following pictures:

	STMicro	electro	nics			
elect the co	mmunication po	ort and set s	ettings, the	n click next	to open	
onnection.			-			
Common for	all families					
• UART						
Port Name	сомз	• F	Parity	Even	•	
Baud Rate	115200	<u>т</u> Е	cho	Disabled	•	
Data Bits	8	T	imeout(s)	10	•	
	Real 1		1		C1	
	Dack	Next	<u><u> </u></u>	ancei	Llose	Click "Nex
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lash Loader D	emonstrator					
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Targe	STMicro	Please click	nics "Next" to p	roceed.		
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Flash Loader	Demonstrate	or		-		×
	STMi	croelec	tronics	6		
Please, sel	ect your dev	vice in the t	arget list			
Target	STM32_M	led-density	_128K		•	
PID (h)	0410					
BID (h)	NA	_				
Version	2.2					
lash						
Name	Start ad	End ad	Size	R.W		^
Page0	0× 800	0× 800	0×400 (1	66		
Page1	0× 800	0× 800	0×400 (1	66		
Page2	0× 800	0× 800	0×400 (1	66		
Page3	0× 800	0× 800	0×400 (1	66		
Page4	0× 800	0× 800	0×400 [1	66		
Page5	0× 800	0× 800	0×400 (1	66		
Page6	0× 800	0× 800	0×400 [1	66		
Page7	0× 800	0× 800	0×400 [1	66		
Page8	0× 800	0× 800	0×400 (1	66		
Page9	0× 800	0× 800	0×400 (1	66		
Page10	0× 800	0× 800	0×400 (1	66		
Page11	0× 800	0× 800	0×400 (1	66		
Page12	0× 800	0× 800	0×400 (1	88		
Page13	0× 800	0× 800	0×400 [1	66		
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Upload from device Upload to file				
Enable/Disable Fla	sh protection			
ENABLE	- REAL	PROTECTIO	N	

Load the already downloaded firmware or the firmware

provided by us which is specially for our Hermit 145 V2, and then click "next"

Flash Loader D	Demonstrator – 🗆 🗙	🥔 Flash Loader I	Demonstrator — — >
	STMicroelectronics		STMicroelectronics
Target Map file	STM32_Med-density_128K STM32_Med-density_128K.STmap	Target Map file	STM32_Med-density_128K STM32_Med-density_128K.STmap
Operation File name	DOWNLOAD C:\Users\user\Desktop\NAZE 32 HEX\CF_NAZE V1.12.0-RC1.hex	Operation File name	DOWNLOAD C:\Users\user\Desktop\NAZE 32 HEX\CF_NAZE V1.12.0-RC1.hex
File size Status Time	120.82 KB (123720 bytes) 90.60 KB (92775 bytes) of 120.82 KB (123720 bytes) 00:00:13	File size Status Time	120.82 KB (123720 bytes) 120.82 KB (123720 bytes) of 120.82 KB (123720 bytes) 00:00:18
	Downloading data 75%		Download operation finished successfully
	Back Next Cancel Close		Back Next Cancel Close

After it is finished, click "close", Flash Loader Demo software is closed automatically.

- 6) Disconnect the USB connection between Hermit 145 V2 and computer, and remove the cable between "Boot" port and the port inside the red circle.
- 7) Connect Hermit 145 V2 with computer by USB cable, and open Cleanflight GUI, click "Connect"
- 8) Click " Calibrate Accelerometer " to calibrate the sensor
- 9) If the firmware is downloaded online in the fifth step, the firmware file needs to be matching the parameters of Hermit 145 V2 specially (customer can ask dealer for the file or change the parameter of "gyro_lpf" to "20HZ"by referring "setting up parameters for basic flight on Hermit 145 V2"; If the loaded firmware is provided by us which already includes basic flight parameters of Hermit 145 V2, then no additional parameters are needed. If customer wants to more free operation ways or wants to add more favorite functions, they can change the parameters accordingly.

Setting up parameters for basic flight on Hermit 145 V2:

If customer updated the firmware on which no basic flight parameter was included, setting up the basic flight parameter for Hermit 145 V2 should be done. Please make sure the tail switch on Hermit 145 V2 is turned to "FC", the following is the set up:

1) UART2 set up:

¥⊈ ≎	 Note: not all combinations are valid. When the flight controller firmware detects this the serial port configuration will be reset. Note: Do NOT disable MSP on the first serial port unless you know what you are doing. You may have to reflash and erase your configuration if you do. 					
ሔ	Identifier	Data	Logging	Telemetry	RX	GPS
₾	UART1	● MSP 115200 ▼	Blackbox 115200 •	Disabled V AUTO V	Serial RX	57600 •
8	UART2	MSP 115200 V	Blackbox 115200 •	Disabled v AUTO v	Serial RX	57600 •

2) ONESHOT125, RX and LED set up:

ESC/N	loto	r Features	
0		MOTOR_STOP	Don't spin the motors when armed
	0	ONESHOT125	DNESHOT ESC support (disconnect ESCs, remove props)
	0	Disarm motors channel)	s regardless of throttle value (When arming via AUX

Receiver Mode

• RX_PPM	PPM RX input
RX_SERIAL	Serial-based receiver (SPEKSAT, SBUS, SUMD)
<pre> RX_PARALLEL_PWM </pre>	PWM RX input
O RX_MSP	MSP RX input

Serial Receiver Provider

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

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SPEKTRUM1024 SPEKTRUM2048 SBUS

SUMD

Other Features					
INFLIGHT_ACC_CAL	In-flight level calibration				
SERVO_TILT	Servo gimbal				
SOFTSERIAL	Enable CPU based serial ports				
SONAR	Sonar				
TELEMETRY	Telemetry output				
3D	3D mode (for use with reversible ESCs)				
LED_STRIP	Addressable RGB LED strip support				
DISPLAY	OLED Screen Display				
BLACKBOX	Blackbox flight data recorder				
CHANNEL_FORWARDING	Forward aux channels to servo outputs				

3) PID parameter set up:

PID Tuning						DOCUMENTATION	FOR 1.12.0
Profile 1	PID Controller ▼ MultiWii (2.3)	· ·	Show all PIDs				
Name	Proportional	Integral	Derivative	ROLL rate	PITCH rate	YAW rate	
Basic/Acro					0.25 🛟	0.25 🛟	0.50 🛟
ROLL	2.0 :	0.030 🛟	23 🌲				_
PITCH	4.0 :	0.030 🛟	23 🌲	TPA	TF	PA Breakpoint	
YAW	8.5	0.045	0 \$		0.00 \$		1500 💲
Angle/Horizon	Strength (Angle)	Strength (Horizon)	Transition (Horizon)				
LEVEL	9.0	0.010 🛟	100 ‡				

4) Set up for receiver signal channel order:

Channel Map		RSSI Channel
AETR1234	•	Disabled •
Default		
Futaba / Hitec		
JR / Spektrum / Graupner		

5) Flight mode set up

	ARM Add Range																			
	ANGLE	AUX 1 ▼ Min: 900 Max: 2100	900	1000				1		1500	, 1	' 600		1	' 300		1		- 1	0
ľ	HORIZON	mon 2100		1000	_	1200	_	_	1100	1000			_			_	_	2000	2.10	
	MAG Add Range																			

6) Parameter for gyro_lpf:

Enter CLI mode, input "set gyro_lpf=20HZ", click "Enter" on keyboard, and then input "save", click "Enter" on keyboard for saving.



Note: inputting "save" is a must after step 1 to step 5, otherwise, all the set up parameters will be invalid.

Editing OSD options:

The page for OSD can display or not display some parameters according to the request of customer. Please turn the tail switch to "FC" on Hermit 145 V2, the detail operation is the following:

- 1) Connect Hermit 145 V2 with computer by USB cable.
- 2) Open MW OSD GUI software (please make sure that Cleanflight and BLHeli Suite GUI is closed first)
- Click and get the COM port which Hermit 145 V2 is on (different computer will be different on port), MW OSD GUI will connect with the OSD hardware on Hermit 145 V2 automatically.

					GPS Settings	Lot 43.09	4 8 6 N	ton 71	1.88970W	LAYO
		Display Voltage	Metric Imperial Units		Display GPS	X 10253		""E	↑ ¹⁵ 350	Using (
M = COM37		Use FC main voltage	NTSC 📕 PAL 🛛 Video Signal		- GPS Coords	ск скъ				4 Not us
d rate: 115200	200	Voltage Adjust	Display Throttle Positic	n 📄	- GPS Altitude	(koak)				0 HUD - I
OFTTHIOG	4	Battery Cells	Display Battery Status	1	- Map mode					1 HUD - C
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37		Video Voltage	Display		Display Compass				÷	
SE COMM		Display Video Voltage	Display Flight Mode		Display Heading					LAYOUT E
		Use FC video voltage	- FM sensors		- Heading 360		areas a reaction as			MCD: 409
	200	Voltage Adjust	Display Gimbal		Display Angle to Home	Section of the sectio	and the second second	14 Th -	and a state of the second s	1015F. 100
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		Display mAh	Display Timer	0.0	Time Zone offset	B15.0v			a 22 1 : 1 8	2012001
		Use Virtual Sensor	HUD		Time Zone +/-		and the second			
		Use FC amperage	Display Horizon Bar			LINKS				
	150	Amps Adjust	- HB Elevation	400	Alarms					
	4	Zero Adjust	Display Side Bars	100	x100 Distance aramin		USER GUIDE	GPS R	EQUIREMENTS	
DISK	50	x100 mAh Alarm	- SB Scrolling	100	Speed starm		FAQ	FRSKY	REQUIREMENTS	
SAVE	100	Amp Alarm	- SB direction	30	Timer alarm		CALIBRATION			
LOAD		RSSI		and the second second			SUPPORT			
LUAD		Display RSSI								
NT TOOLS		Use FC RSSI	SIMULATOR							
SELECT		Use PWM	FC SENSORS	GPS		RADIO	ANGLE/HE	ADING	MODES	
JPLOAD	0	RSSI Min		GPS FIX					ARM	
DIT FONT	150	RSSI Max	500.0 7.0	10 S	ATS 0.00				ANGLE	
	60	RSSI Alarm	000.0 1.0	500 A	LT-CM				PARO	
DCONTROLS		eference Voltage	10.0	1000 S	PEED-CM/S HEAD HOME	_	ROLL/P	тсн	MAG	
READ		Enable ADC 5v ref	10	350 D	ST HOME-M	Donate			CAMSTAB	
WRITE			ALT VARIO VBAT RSSI				- (6		GPS HOME	
FFAIII T		Call Sign	SIMULATOR CONTROL	FRSKY		Debug		1	GPS HOLD	
		Display Cansign	Simulate on OSD	SIMULA	TE FRSKY CELLS	Debug	HEAD	MG	MISSION	

4) Set up OSD according to your request, click

wRITE and save the parameter.

The order way (send email to sales@overskyrc.com) :



(Note: There is no receiver on the Hermit 145 V2 above, the place of the red square is for receiver installation)

It includes:

- 1) A fully assembled Hermit 145 V2 (not including receiver)
- 2) A new version receiver with double antenna
- 3) 8 pcs of 90mm propeller (1.5mm hole)

Note:

 Please tell us the receiver you want for your quadcopter when you place the order (three options: A-DSMX/DSM2-7CH compatible receiver; B-Futaba SFHSS-8CH compatible receiver; C- Flysky AFHDS-8CH compatible receiver)

2) Only RHCP clover antenna is available.