

FLYWOO CineRace20 ANALOG Base User Manual

Home » FLYWOO » FLYWOO CineRace20 ANALOG Base User Manual





Contents [hide

- 1 drone introduction
- 2 Features
- 3 Personalization Frame Kit
- 4 Specification
- 5 Highly recommended battery
- 6 Includes
- 7 Receiver binding
- 8 Mode setting:
- 9 Motor test:
- 10 Flight firmware upgrade and write default

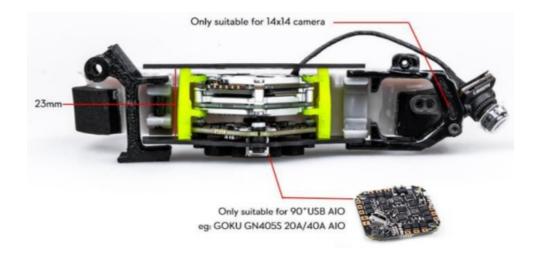
CLI

- 11 Configuration table
- 12 Documents / Resources
 - 12.1 References
- **13 Related Posts**

drone introduction

CineRace20 is a new concept and more than a cinewhoop. Inspired by RaceWhoop designed by Free Zillion. This is a combination of CineWhoop and RaceWhoop! CineRace s double duct design, is not a simple guard anymore. It can fly as flexible as a racing drone, and as stable as Cinewhoop. Pilots can quietly enjoy the fun of shooting a video without jelly and up to 12 minutes of Super long flight time with Flywoo's latest 4S HV 900mah Battery! All in all, this is an all-around drone that can not only Race but also shoot a video stably, and at the same time achieve a super long flight time!



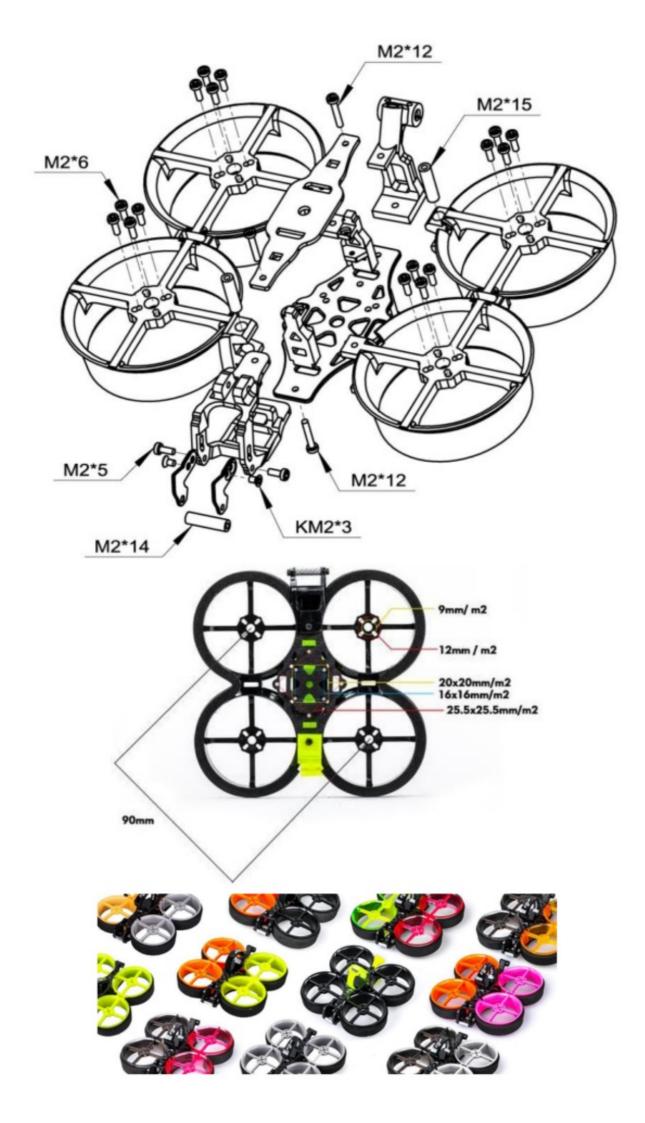


Features

- 1. Almost all parts are injection molded. ABS\PC material. More sturdy and durable.
- 2. Very easy to disassemble and install, only fixed by two aluminum columns.
- 3. Pilots can freely combine their favorite colors to be more individual
- 4. Efficient power configuration and reasonable structural design ensure CineRace20 flight stability, low noise, and super long flight time up to 12mins
- 5. No Propellers in view, NO Jello flight Footage, stable flight picture
- 6. With its own power cable output to the SMO camera (If you are using a GoPro 6/7/8 camera, you need to buy an adapter cable)
- Add Flywoo Bt-nano Bluetooth Module
 You can use mobile devices to set the parameters of the flight controller.

Personalization Frame Kit

You can freely combine the color frame you like! Please note you need to replace the Ducts yourself, all Prebuild Drone colors are determined. Link: CineRace Frame kit Parts



Specification

Item: CineRace20 Analog w/ Caddx Ant

Weight: 93g (without battery)

FC & ESC: GOKU GN 413 13A AIO Frame: CineRace20 Frame Kit Motors: NIN V2 1203PRO 3400Kv

Props: Gemfan D51 -5 VTX: vtx625 450mw

Antenna: Flywoo Circular RHCP 5.8Ghz Ant (UFL-Length: 115mm \ Tube 45mm) Battery: Explorer 4S HV 300mAh / Explorer 4S HV 900mAh battery (Not including)

Highly recommended battery

Explorer 4S HV 300mah Battery (You will get good flight time and fly quite flexible)
Explorer 4S HV 900mah Battery (You will get a super long flight time, and the flight will be more stable)

Includes

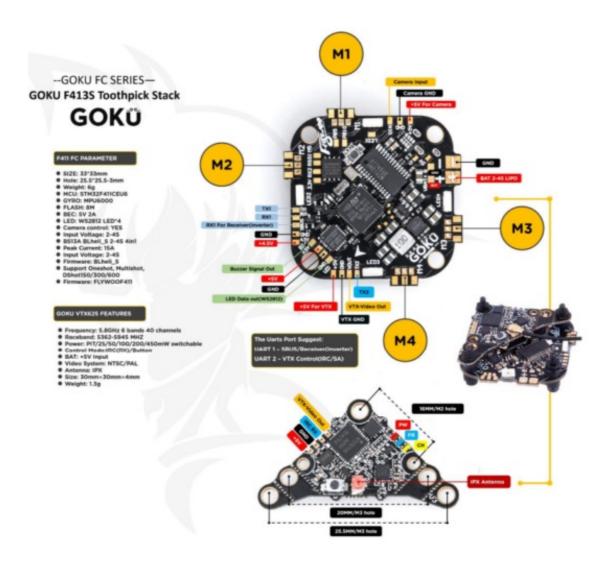
1x Prebuilt and tested CineRace20 Quadcopter

4x D51-5 Props (Pairs)

2x Battery Strap

1x Hardware Set





PID and filter settings





Default serial port settings



UART1: ELRS/TBS/R9M/XM+/DSMX/SBUS receiver UART2: VTX IRX TX

Frequency table:

FR/CH	СН1	CH2	CH3	CH4	CH5	CH6	CH7	CH8
A	5865	5845	5825	5805	5785	5765	5745	5725
ь	5733	5752	5771	5790	5809	5828	5847	5866
E	5705	5685	5665	5645	5885	5905	5925	5945
F	5740	5760	5780	5800	5820	5840	5860	5880
r	5658	5695	5732	5769	5806	5843	5880	5917

 The selections in XXXX require a HAM license to operate .legally. XXXX Selections are only available on special requests.

Button function

- FR (blue light), short press the button, the blue light flashing times represent CH1-CH8
- CH (yellow light), long-press the button 2S until the yellow light flashes, and then press the button shortly, the number of flashes of the yellow light represents A-r
- PWR (power), long-press the button 6S until the red light flashes, and then press the button shortly, the number of flashes of the red light represents 5 levels of power
- Long press 105 to unlock 40 channels. (three-color led flashes)

Receiver binding

TBS NANO 915:

When the USB is connected, the green light of the receiver flashes, and then binds according to the picture operation.

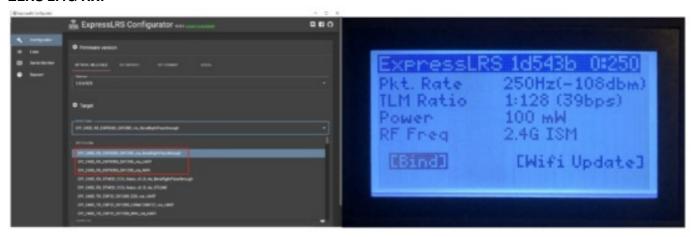
https://www.youtube.com/watch?v=-iNkVcOLITM&ab_channel=Danimal3D







ELRS 2.4G RX:



Bind procedure:

- Supply power to the EL24E/EL24P RX, wait until the LED on the RX is off, immediately turn off the power, and then repeat again the above steps. When the RX is powered on for the third time, the LED light will start to double-flash, which means that the RX enters the binding mode
- Insert the 2.4G ELRS TX to the Radio transmitter, and choose External RF mode to CRSF protocol, then you can find the ELRS menu from the Radio systems(Need to copy the ELRS.LUA file to the SD-Card tools first), Enter into ELRS and press [Bind], the LED on the RX module will get to be solid if bind successfully.
- Receiver LED status meanings:

EL24E/EL24P RX: LED solid means to bind successful or Connection established; LED double-flash means in bind mode; LED flash slowly means no signal connection from the TX module; LED flash fast means in WIFI hotspot mode, you can connect the WIFI of the RX and upgrade the firmware of the RX via visit 10.0.0.1 from the web browser(password: expressIrs)

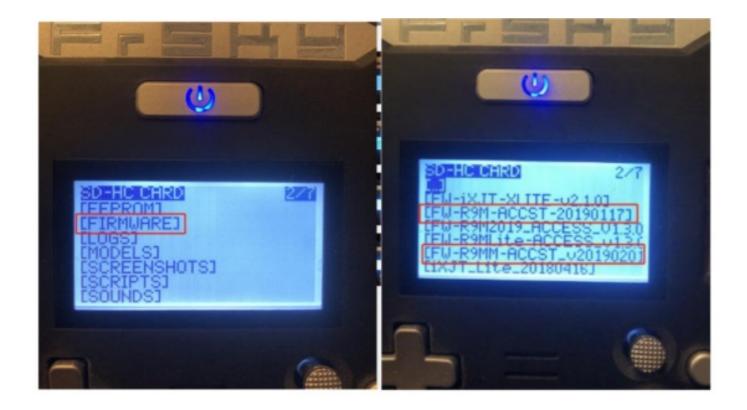
R9MM FCC ACCESS OTA

Make sure your remote control supports ACCESS protocol, then follow the link to register and bind https://www.youtube.com/watch?v=az5hDdNBcjg&t=9s&ab_channel=FrSkyRC

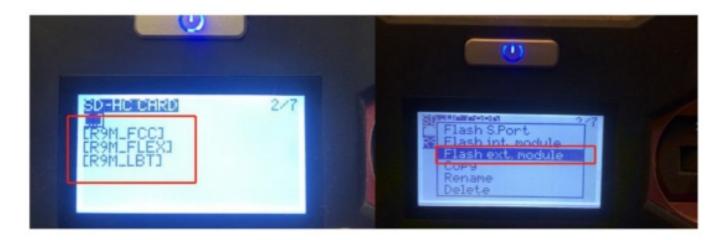
If the remote control is ACCST protocol, please bind as follows:

1/ Put these two files into the firmware directory of the SD card of the remote control.

R9MM firmware: FW-R9MM-ACCST_v20190201 R9M TX module: FW-R9M-ACCST-20190117



2/ Insert the R9M TX module and write the firmware you need



3/ To write the firmware of the R9MM receiver, you need to remove the R9MM receiver, and then write the firmware by connecting to the S.PORT port.



4/ After both R9M TX and R9MM RX are written into the ACCST firmware.

Binding method:

- 1/ Press and hold the button of RX, power on, the red and green lights are always on.
- 2/ Then after R9MM selects binding, RX red light flashes, and then exit
- 3/ RX is powered on again, and only green light is displayed, indicating that the binding is successful.

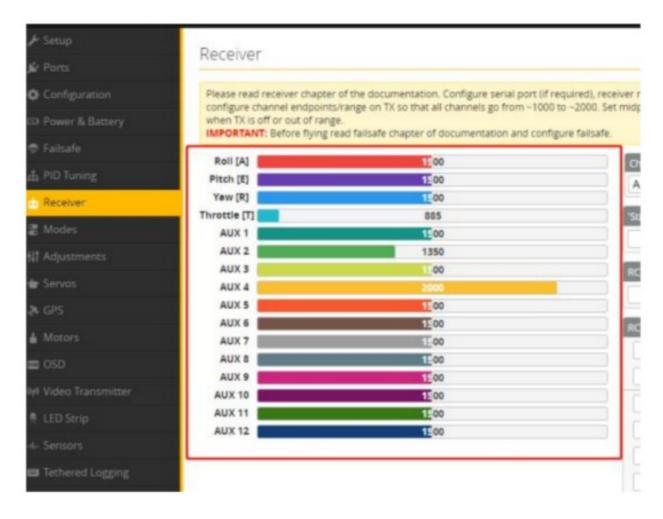


XM+ receiver:

- 1/ Press the XM+ receiver button, and USB power supply, the red and green lights are always on
- 2/ The remote control turns on the binding mode, and the green light flashes to indicate successful binding, turn off and restart

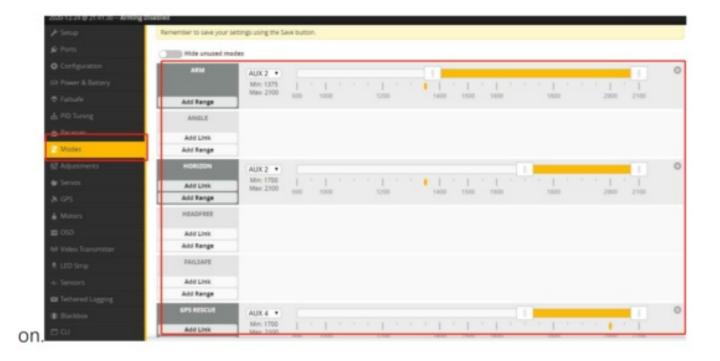


3-1/ Then set the corresponding serial port and receiver protocol to ensure the normal output of each channel of the receiver.



Mode setting:

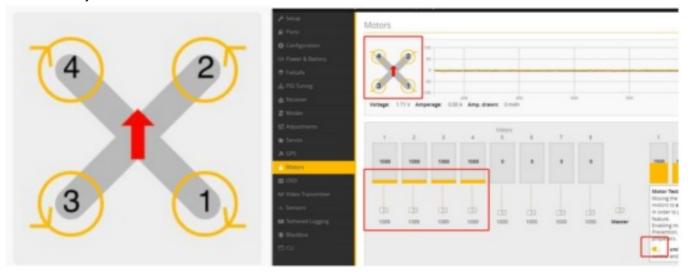
Set the ARM switch and flight mode switch, AUX* corresponds to the remote control switch, and the yellow area mark is turned



Motor test:

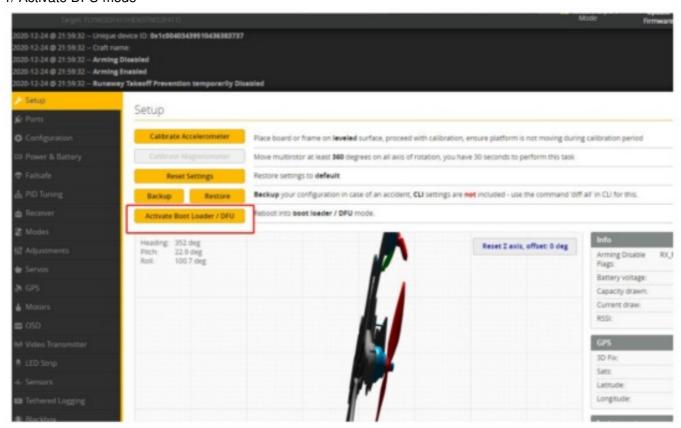
Unload the propeller, test the rotation direction of the motor, turn on the safety switch, and test the rotation of the

motors one by one.



Flight firmware upgrade and write default CLI

1/ Activate DFU mode



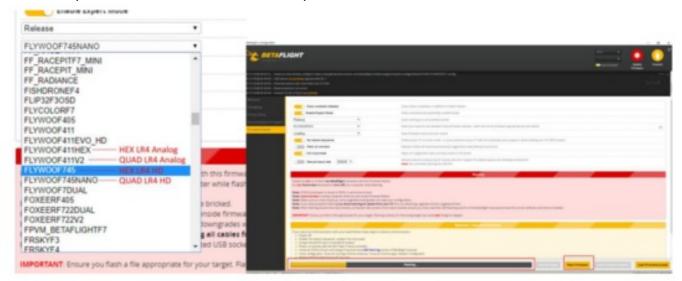
2/ BF Configurator will display to enter DFU mode. If it does not enter DFU mode, it may be that the driver is not installed. The driver can be installed using IMPULSE RC software



Driver software:

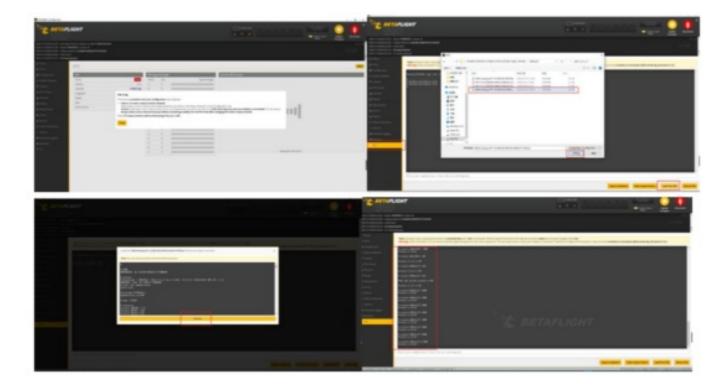
https://impulserc.blob.core.windows.net/utilities/ImpulseRC_Driver_Fixer.exe

3/ Then load the local HEX firmware and wait for the flashing to complete. A green progress bar is displayed to indicate completion, and DFU will become a COM port





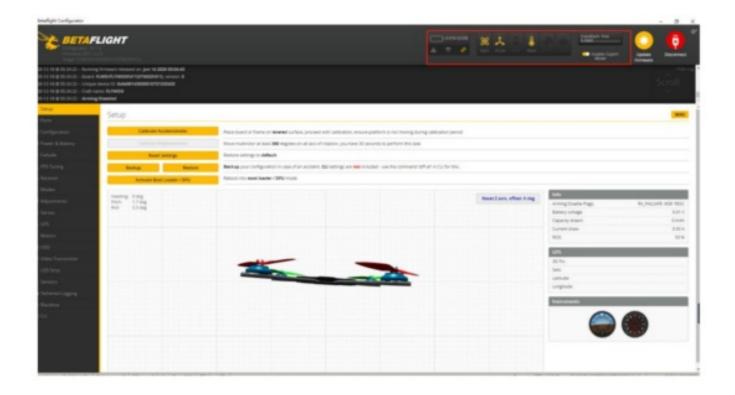
4/ After the connection is entered, it is a blank interface, you need to write CLI commands, Factory CLI LINK: https://flywoo.net/pages/manual



5/ If the command is not restarted after writing the command, please write SAVE and press Enter to save, and the FC will restart



6/ Then all functions of FC return to normal.



Configuration table

CineRace20 Analog		CineRace20) Analog Pro	CineRace20 Polar Nano		
Color	Grey	Color	Yellow	Color	Black	
FC \ESC	GOKU 413SAIO 13A MO	FC\ESC	GOKU 405S 20A A1 0	FC \ESC	GOKU 405S 20A AIR	
Camera	Caddx Ant	Camera	Caddx Baby Ratel V 2	Camera	Polar Nano	
VTX	VTX625 450mw	VTX	HM850 850mw	VTX	Vista	
Antenna	Plywood circular RHCP ⁵ .8Ghz Antenna (UFL-Length: 115m m \ Tube 45mm)	Antenna	Plywood circular RH CP 5.8Ghz Antenna (UFL- Length: 115m m \ Tube 45mm)	Antenna	Plywood circular LHCP 5.8Ghz Antenna (UFL –Length: 115mm \ Tube 45mm)	
Motor	Nin V2 1203PRO 340 0kv	Motor	Nin V2 1203PRO 34 00kv	Motor	Nin V2 1203PRO 3400 kv	
Propeller	Gemfan D51-5 blade	Propeller	Gemfan D51-5 blade	Propeller	Gemfan D51-5 blade	
Bluetoot h, modul e	\	Bluetooth, module	YES	Bluetooth, module	YES	

Microph one mod ule	\	Micropho ne modul e	YES	Microphone module	\
Battery	Explorer 4S 300mah HV Explorer 4S 900mah HV	Battery	Explorer 4S 300mah HV Explorer 4S 900mah HV	Battery	Explorer 4S 300mah H V Explorer 4S 900mah H V
Flight Ti me (With out Cadd x Peanut	300mAh\7mins 900m Ah\15mins 30s	Flight Tim e (Without Caddx Pe anut)	300mAh\7mins 900 mAh\1 Smins 30s	Flight Time (Without Ca ddx Peanut)	300mAh\6mins 900mA h\12mins 30s
Flight Ti me (With CaddxPe anut	300mAh\4mins 30s 9 00mAh\12mins Flight T e (With CaddxP nut)		300mAh\4mins 30s 900mAh \12mins		300mAh\3mins 30s 90 0mAh\10mins
Weight	93.2g (Without Batter y)	Weight	94.7g (Without Batte ry)	Weight	111.7g (Without Batter y)

Documents / Resources



FLYWOO CineRace20 ANALOG Base [pdf] User Manual CineRace20 ANALOG Base, CineRace20

References

- FLYWOO
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Manuals+, home privacy