

Cinebot30



User Manual

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Overview

Taking your drone photography to the next level, the new series Cinebot30, take you to the real world, shooting extreme footage.

Cinebot30 is a new generation of Cinematic FPV drone developed by GEPRC team. The high-strength 7075 aircraft-grade aluminum alloy bracket for FPV camera escort, the combination of classic engineering and aesthetics. The newly polished gimbal damping module can easily fix high-frequency vibration and jello issues. It can be mounted with GEPRC Naked GoPro Hero 8 and GoPro Black Bones, Insta 360 GO2 and other cameras. The image is stable and clear, and it's easy to film.

Adopts high-strength one-piece injection-molded propeller guard and high-toughness and impact-resistant PC material for injection molding. A ring-shaped Cob light strip is embedded in the propeller guard, and the light effect is carefully tuned. High-strength grain-cut carbon fiber sheet, the overall strength of the fuselage is upgraded again! Cinebot30 will be equipped with a powerful 1804 motor with optimized motor magnetic circuit and surging torque, which can easily cope with ultra-low altitude shooting. With HQ prop T76mm*3 propeller, it gets the lowest noise effect in its class. Using GEP-F722-45AAIO v2 flight controller, higher performance redundancy, and easy handling of unexpected situations. Finely polished frame design, only 6 screws need to be removed to separate the aircraft top plate and protection frame. Easy to cope with the urgent need to replace the accessories, at any time to restore the state.

Tuned by GEPRC professionals, the Cinebot30 is a Cinematic FPV that performs both indoor and outdoor flights equally well. The Cinebot30 explores endless possibilities for your drone shots!

Specifications:

Model: Cinebot30 HD Quadcopter

Brand: GEPRC

Frame: GEP-CT30

Wheelbase:127mm

Top plate thickness: 2mm

Main plate thickness : 3mm

Base plate thickness: 1.5mm

FC : GEP-F722-45A AIO V2

MCU: STM32F722

IMU: ICM-42688-P

VTX:Vista Nebula Pro/Runcam Link/Walksnail Avatar/GEPRC RAD 1W /DJI O3 air unit

Propeller: Hq prop T76mm

Antenna: 5.8G

Battery Interface: XT60H-M

Motor: SPEEDX2 1804-2450KV (6S Version) / SPEEDX2 1804-3450KV (4SVersion)

Weight: 222g (vista HD pnp)/Nebula Pro version 222.5g/Avatar version 221g/ Analog version 209.2g/ Link Wasp version 222.5g (excluding the battery, the above are TBS RXnano version)

Receiver: PNP, Frsky R-XSR, TBS Nano 915M RX, ELRS 2.4G

Recommended Battery: LiPo 4S 1100mAh-1300mAh (4S Version) / LiPo 6S 850mAh-1100mAh(6S Version)

Features:

1. Design that combines engineering and aesthetics.
2. Quick-disassembly design, only need to remove 6 screws to upgrade or replace parts.
3. Selected high-toughness and impact-resistant PC material for injection molding.
4. Aviation 7075 aluminum alloy camera mounting bracket and fuselage aluminum column.
5. Propeller guard embedded ring Cob light strip, carefully tuned light effect. Color brightness in the day and night can be clearly displayed.
6. The newly developed gimbal shock absorption structure can disintegrate high frequency jitter and jello effect. Easily carry a variety of action cameras.
7. Powerful 1804 motor, surging torque to deal with ultra-low altitude flight at will.
8. With the new GEP-F722-45AAIO V2, stable performance, more secure flight
9. Four kinds of FPV system with the program, choose to belong to your first-person view
10. Tuned by GEPRC professionals, delicate and silky flying feel

Warranty Policy:

1.If Quadcopter is damaged or unknow issue,please contact GEPRC and send it back . We'll do our best to get this taken care of quickly for you.

2.Any impact damage, product liquid damage, high temperature burn or other artificial damage is not covered by warranty.

PS:

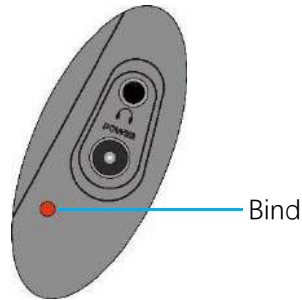
1.All components has been strictly inspected and tested before shipping.

2.If you have any problems, please cooperate with our engineers to figure out solutions.

(E-mail: support@geprc.com.)

DJI Digital FPV System:

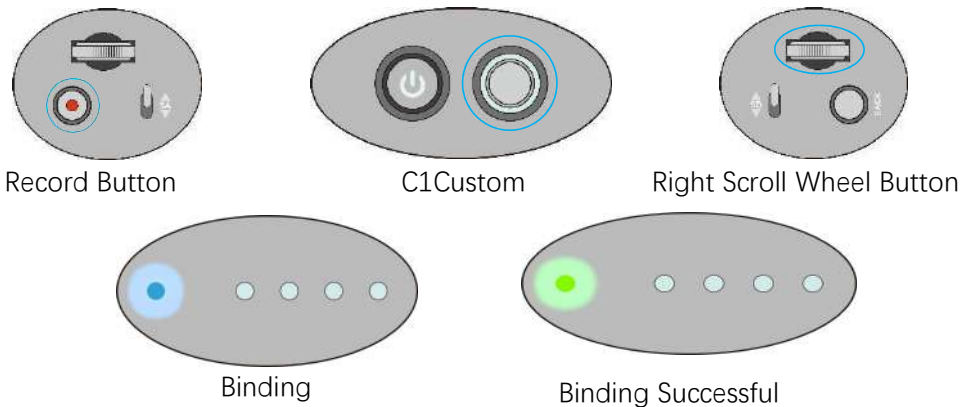
1. Turn the power of the FPV Goggles, DJI FPV Transmitter, and Quadcopter. Press the FPV Goggles bind button twice, and it will beep to indicate the binding state.



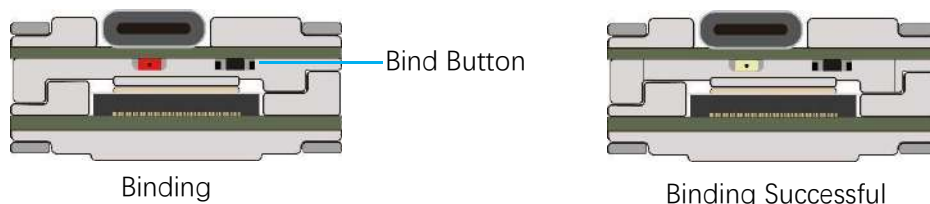
2. Press the VISTA bind button, the indicator light turns red, indicating that it is binding. Then the indicator light turns yellow, which means the binding is successful, and the FPV Goggles will display the received picture.



3. Press the **C1 custom button**, **record button** and **right scroll wheel button** of the remote controller at the same time. The indicator light turns blue, and the remote controller sends a beep indicating that it is binding.



4. Press the VISTA bind button, the indicator light turns red, indicating that it is binding. Then the indicator light turns yellow, which means the binding is successful. And the remote controller indicator light turns Green.

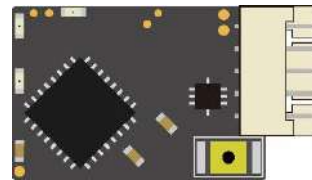


Bind FrSky R-XSR:

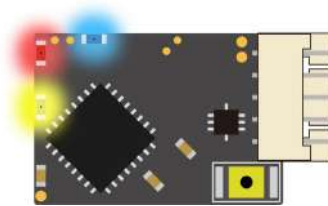
1. For Taranis X9D/X9D Plus/X9E and Taranis QX7, turn on the transmitter, go to the MENU – MODEL SETUP – PAGE 2, choose Internal RF, and select BIND.

2. Turn on the receiver while holding the bind button on the receiver, release the button and the blue, red, yellow LED on .

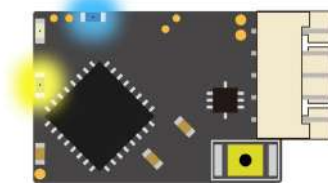
3. When the red light flashes, it indicates that the binding is successful. Turn off the receiver, and then turn on the receiver. The blue light and yellow light of receiver are on, indicating that the link is normal.



Binding Button



Binding



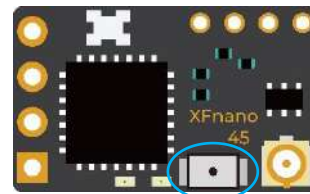
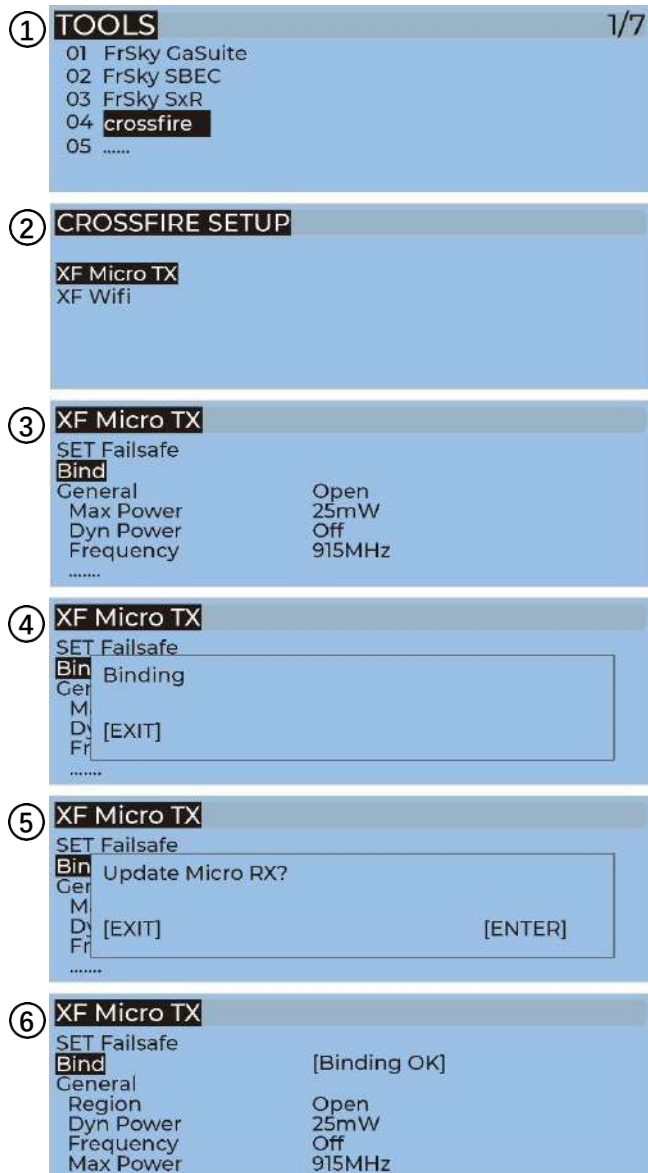
Binding Successful

Bind TBS NanoRX:

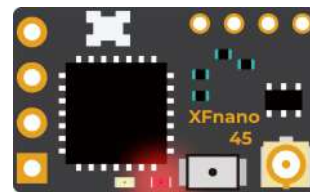
1. For Taranis X9D/X9D Plus/X9E and Taranis QX7, turn on the transmitter, go to the TOOLS – CROSSFIRE SETUP – XF Micro TX ,and select Bind.

2. Turn on the receiver while holding the bind button on the receiver, release the button and the green LED on flash .and then holding the button for 8 second ,and release. And the green light is off and the red light is flashing, ‘update micro RX?’ will appear on the transmitter screen, and select ‘ENTER’.

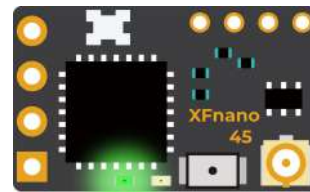
3. Wait for the update to complete, the binding is successful, and the receiver green light is on.



Bind Button



Binding



Binding Successful

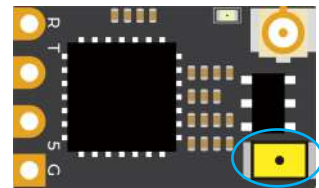
Bind ELRS:

GEPRC's ELRS 868MHz, ELRS 915MHz and ELRS 2.4G receivers have the same operation method for frequency alignment.

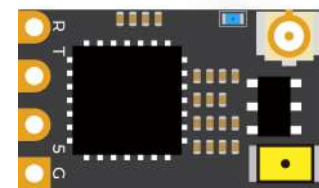
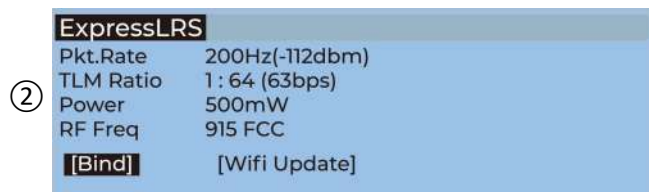
1. When the receiver is powered on and off three times continuously (1 second interval), the blue light of the receiver indicator will double flash continuously, indicating that the receiver has entered the frequency pairing status.

2. For X9D/X9D Plus/X9E and Taranis QX7 remote control, turn on the power of the remote control, press and hold the MENU key to enter TOOLS -ELRS and select Bind to enter the frequency pairing status.

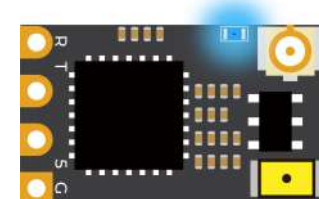
3. Wait for the blue light of the receiver indicator to change from continuous double flash to constant light, that is, the frequency pairing is successful. Turn off the receiver power, then turn on the receiver power, the blue light is always on, which means the receiver and remote control are connected normally.



Bind Button



Binding



Binding Successful

Install Betaflight:

Although your Quadcopter comes from the factory nearly completely ready to fly, you still need to install betaflight to facilitate your subsequent use of betaflight for debugging.

Installation package download address:

<https://github.com/betaflight/betaflight-configurator/releases>

Enter the web page, pull to the bottom, and select the appropriate installation package to download. EXE suffix is Windows system, DMG suffix is MacOS system, RPM / DEB suffix is Linux system, APK suffix is Android system.

Install Drivers:

If you are on windows, you must install the driver manually. MacOS and Linux do not.

CP210x Drivers:

<https://www.silabs.com/products/development-tools/software/usb-to-uart-bridge-vcp-drivers>

STM USB VCP Drivers:

<http://www.st.com/en/development-tools/stsw-stm32102.html>

Zadig:

<http://zadig.akeo.ie/>

ARM(DJI Transmitter):

With DJI FPV Transmitter, the toggle switch is set at the factory. The corresponding functions of each switch are as follows:

- SA AUX1 (ARM)
- SB AUX2 (MODES)
- SC AUX3 (BEEPER)
- SD AUX4 (Vacancy)



DJI toggle switches are all three sections. If you move the Yellow cursor of the corresponding aux channel of the switch, the corresponding function will be turned on when you move to the set range.



OpenTX Transmitter

The transmitter of openTX system needs to check the AUX channel. For Taranis X9D/X9D Plus/X9E and Taranis Q X7, turn on the transmitter, go to the MENU –MIXS and view the current AUX channel settings.

CH1-CH4 corresponds to four channels of rocker CH5 (SF) γAUX1 (ARM)

CH6 (SG) γAUX2 (MODES)

CH7 (SA) γAUX3 (BEEPER)

CH8 (SB) γAUX4 (Light strip switch) .



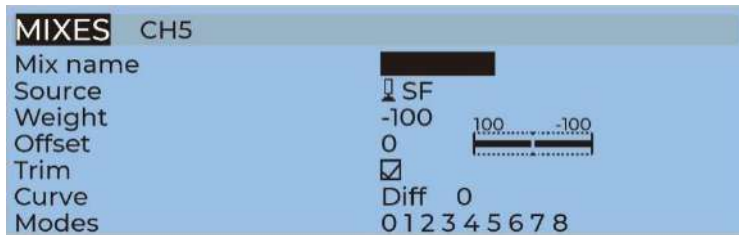
FrSky X9D transmitter SF toggle switch are two sections. If you move the Yellow cursor of the corresponding aux channel of the switch, the corresponding function will be turned on when you move to the set range.



Use the transmitter wheel to move the cursor to select the AUX channel, and then press and hold the wheel key to edit the channel.

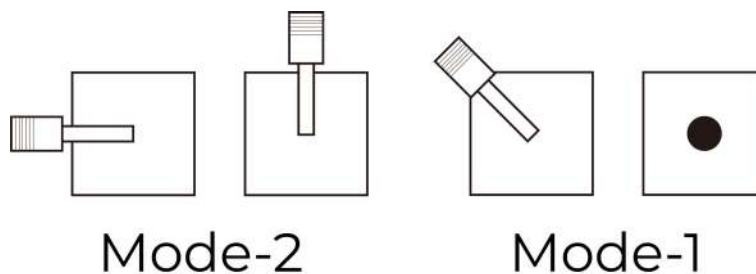


You can name the aux channel, or set the toggle switches you want, and exit and save it.



IRC Tramp:

1. Turn on the transmitter, THR middle, YAW left, PITCH up, enter the OSD menu.



2. The PITCH moves the cursor up and down, and the ELE right to enter the next item. Now, save and exit.

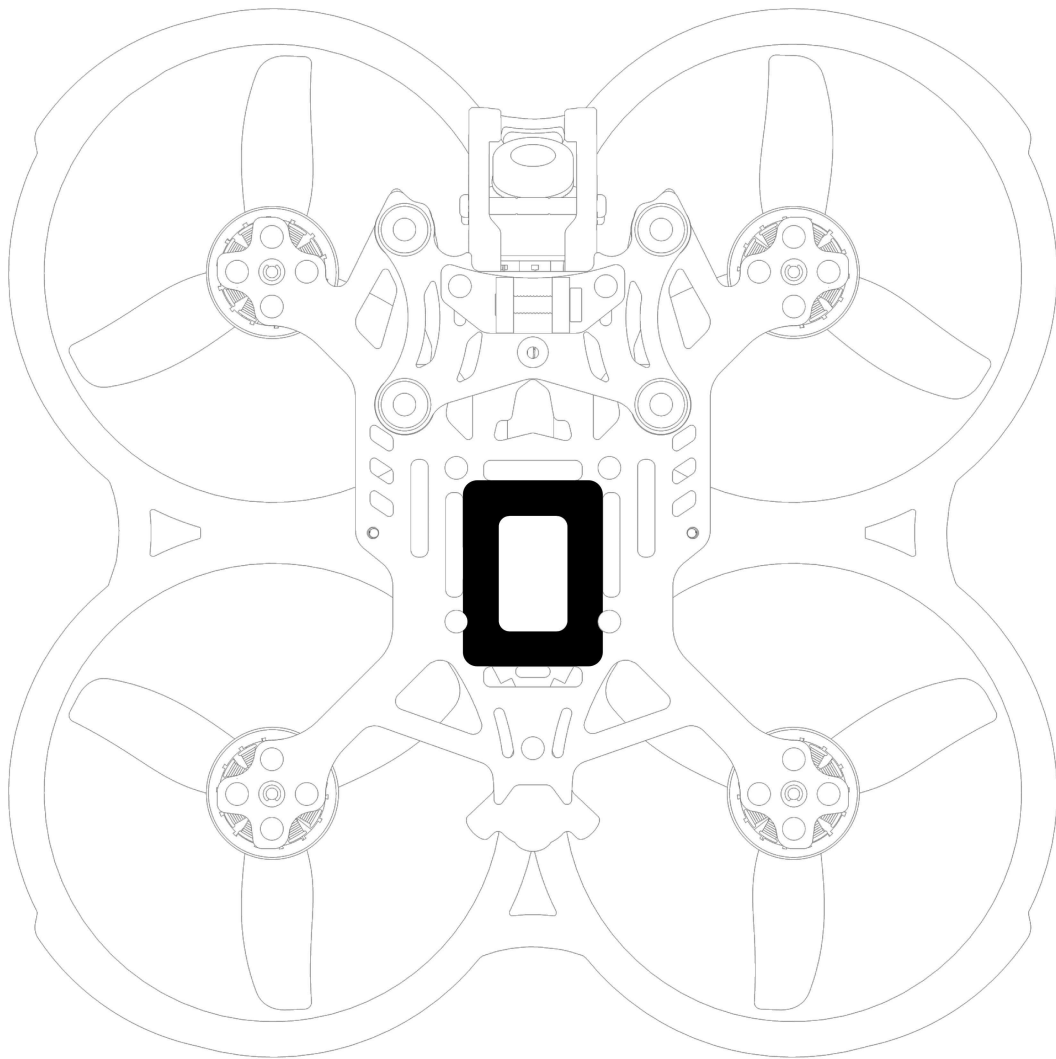




Frequency table:

Universal frequency table (BAND)	CH							
	CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8
1, A (BOSCAM)	5865Mhz	5845M	5825M	5805M	5785M	5765M	5745M	5725M
2, B (BOSCAM)	5733Mhz	5752M	5771M	5790M	5809M	5828M	5847M	5866M
3, E (BOSCAM)	5705Mhz	5685M	5665M	5645M	5885M	5905M	5925M	5945M
4, F (FATSHARK)	5740Mhz	5760M	5780M	5800M	5820M	5840M	5860M	5880M
5, R (RACEBAND)	5658Mhz	5695M	5732M	5769M	5806M	5843M	5880M	5917M

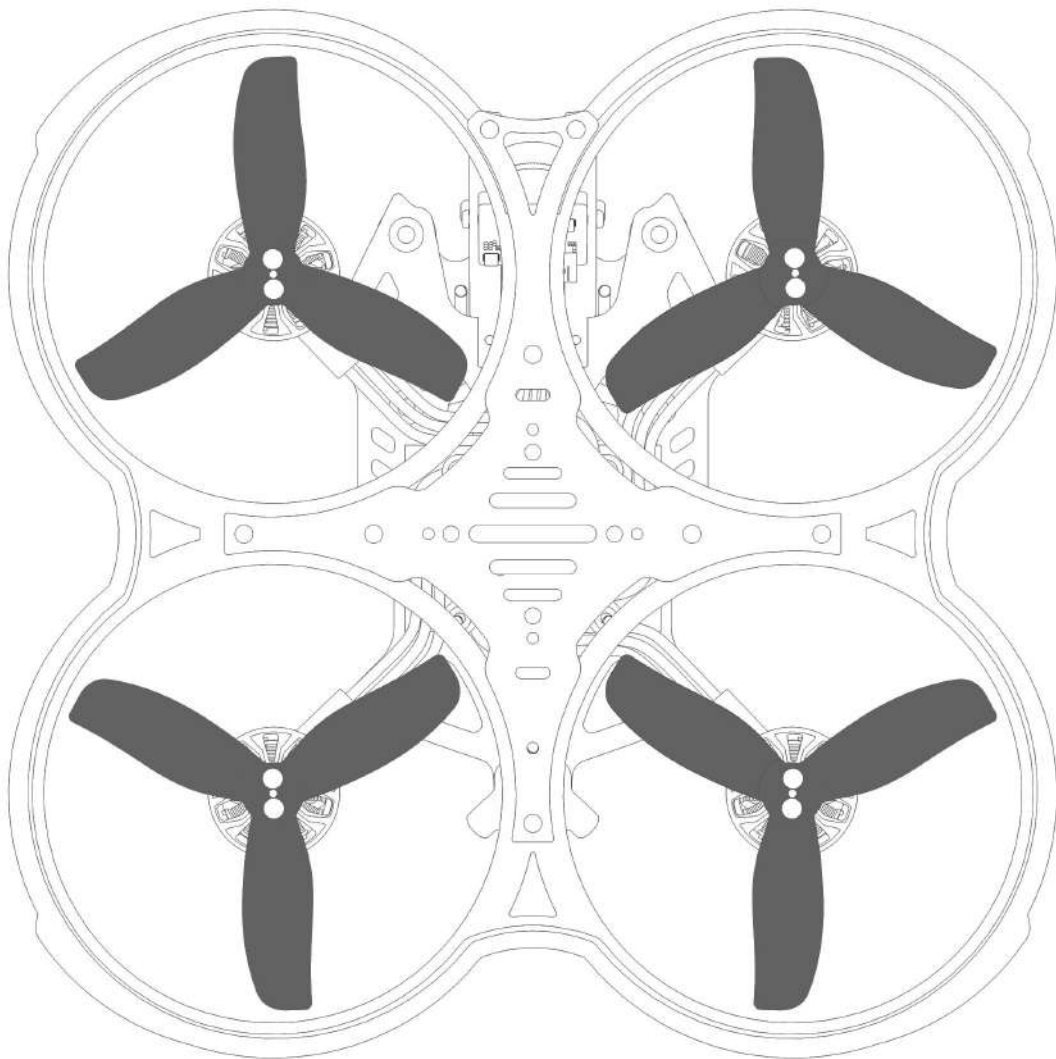
Install Silicone Pad,Landing pad:



Install Propellers:

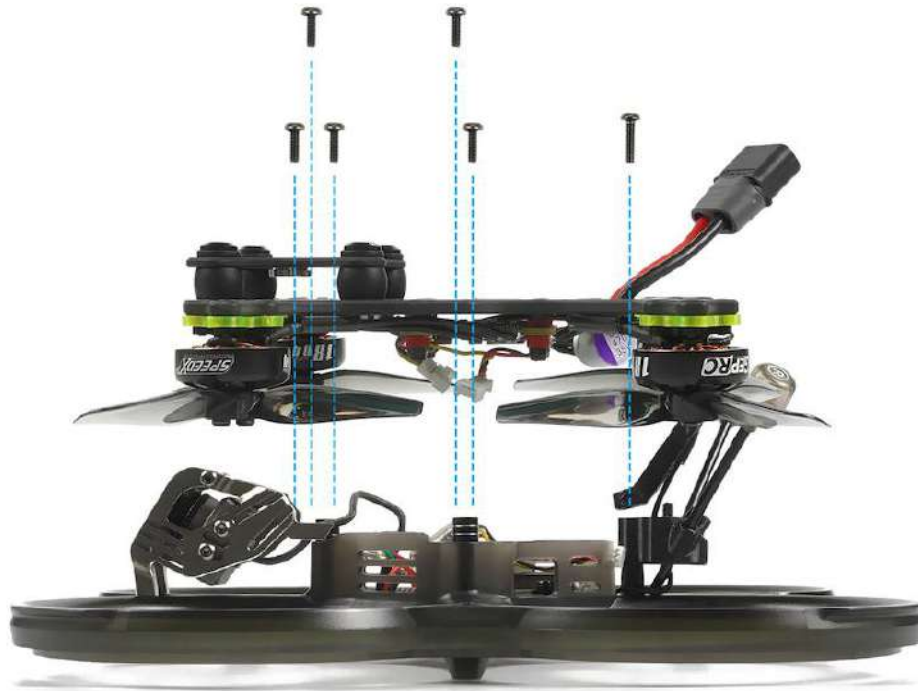
CINEBOT30

Although the propeller of cinebot30 are installed in the factory, the direction of the propeller should be checked before taking off.



Although the blades of the CINEBOT30 have been installed in the factory, it is necessary to check the direction, positive and negative of the blades before takeoff.

Quick disassembly scheme



It is only necessary to remove 6 screws of the arm plate to open the internal space for easy maintenance and replacement.

Pre-flight Check:

In many cases, the cause of a Quadcopter crash is not checked before takeoff. For the sake of safety, we suggest that you check before every flight. The steps are as follows:

1. Turn on the transmitter and select the correct mode. Please confirm that the arming switch on the transmitter is in the "disarmed" position and throttle is all the way down;
2. Please perform a physical inspection of the Quadcopter for damage. If there is damage, please repair first;
3. Please confirm the propeller is in the right direction and the propeller nut is locked, otherwise there is a risk of crash;
4. Check LiPo battery voltage. A fully-charged LiPo should be about 4.2 volts per cell, or about 12.6 volts for a 3S, or 16.8 volts for a 4S;
5. Please confirm the battery is securely attached to the aircraft by the strap. And secure the balance lead so that it can't be struck by the props;
6. Please Scan the flight area for any safety issues that might be present, such as people or animals;
7. Verify that you have clean, strong video in your FPV goggles or screen. If you see interference or you see another pilot's feed, resolve this issue before flying;
8. Arm the quadcopter. Listen for the props hitting anything like an antenna or the battery wire;
9. At this stage, take off and enjoy flying.

Note: if you choose to fly close to water, please pay attention to the flight safety. It is difficult to salvage the Quadcopter when it falls into the water, and the water in the Quadcopter is not covered by the warranty.

Includes:

- 1 x Cinebot30 Quadcopter
- 2 x HQProp T76MM (pair)
- 1 x Battery strap M15*200mm
- 1 x Battery strap M15*220mm
- 2 x Battery Silicone Pads
- 1 x Set of screws
- 1 x L-shaped screwdriver 1.5mm
- 1 x L-shaped screwdriver 2mm
- 1 x Antenna fixed tube (pair)
- 1 x Key Chain
- 1 x GoPro camera mount holder
- 1 x Antenna mount holder
- 1 x Naked GoPro 4S Version
- 1 x Naked GoPro 6S Version

Contact Details:

Website: <https://geprc.com/>

