



# *SMART35*



User Manual & Setup Guide

V1.0

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# Contents

Overview:.....	3
Specification:.....	3
Features:.....	3
Warranty Policy:.....	4
PS:.....	4
DJI Digital FPV System:.....	5
Bind TBS NanoRX:.....	6
Bind FrSky R-XSR:.....	7
Install Betaflight:.....	8
Install Drivers:.....	8
ARM(DJI Transmitter):.....	9
OpenTX Transmitter:.....	10
Install Silicone Pad,Landing pad:.....	14
Install Propellers, Battery strap:.....	15
Pre-flight Check:.....	16
Include:.....	17
Contact:.....	17

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## Overview:

The 3.5-inch quadcopter newly designed by the GEPRC R&D team is now released. There are currently three versions, namely VISTA Polar/VISTA Nebula Nano/Analog.

SMART35 is a small size, light weight, suitable for freestyle quadcopter. GEPRC 1404-3850KV motor and EMAX 3.5\*2.8\*3 propeller form a highly efficient power system. Using the latest GEP-F411-35A AIO FC system, combined with the VISTA Digital FPV system, the flying is stable and feels great. Flying time is 13 minutes by the 4S1100mAh LIPO battery.

We pursue lighter weight, better flying feel and more extended functions of the Quadcopter.

## Specification:

Model: SMART35 Quadcopter

FC: GEP-F411-35A AIO

ESC: BLheli\_S 35A

VTX: VISTA/ GEP-STABLE-VTX58600N

Camera: Caddx Polar/Caddx Nebula Nano/Caddx RateL2

Antenna: Momoda UFL LHCP/MMCX RHCP Antenna

Motor: GR1404 3850KV

Propeller: EMAX3.5x2.8x3

Frame: GEP-ST35

Motor to Motor: 155mm

SMART35 Weight: 142.1g (Polar) /137.6g (Nano) /127.4g (Analog)

Receiver: PNP, Frsky RXSR, TBS Nano RX

## Features:

- 1.The arm is made of 4mm carbon plate with high frame strength.
- 2.Equipped with VISTA Digital FPV system.
- 3.Use 1404-3850kv motor, high efficiency and incredible power.
- 4.The 3.5-inch lightweight design is suitable for freestyle flight.
- 5.Independent design of GEP GoPro Lite 8 3D Print Mount, which can carry Naked GoPro6 / 8 and INSTA GO2.

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## Warranty Policy:

1. If Quadcopter is damaged or unknown issue, please contact GEPRC. 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.

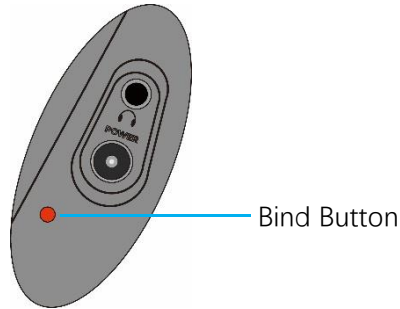
### **PS:**

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](mailto:support@geprc.com).)

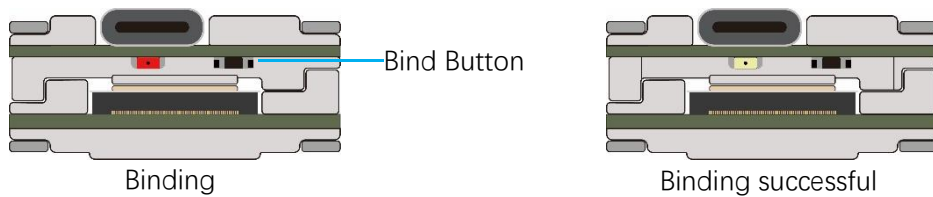
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# DJI Digital FPV System:

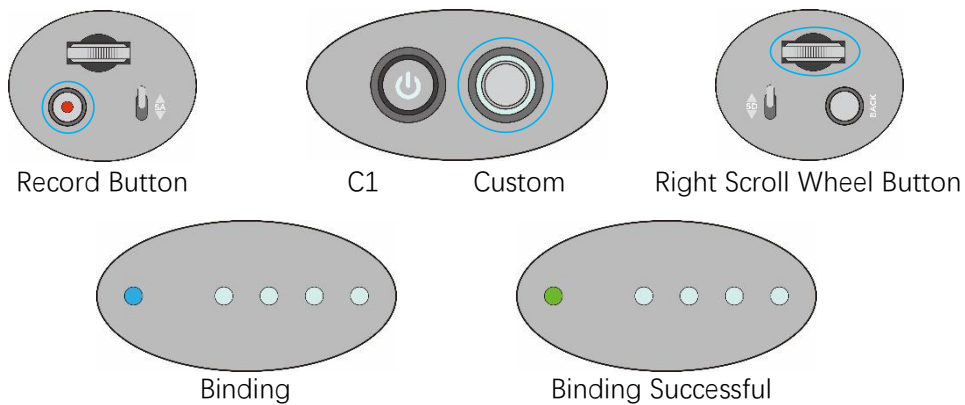
1. Turn the power of the FPV Goggles, DJI FPV Transmitter, and Quadcopter. Press the FPV Goggles bind button twice, and it will beep to indicate the binding state.



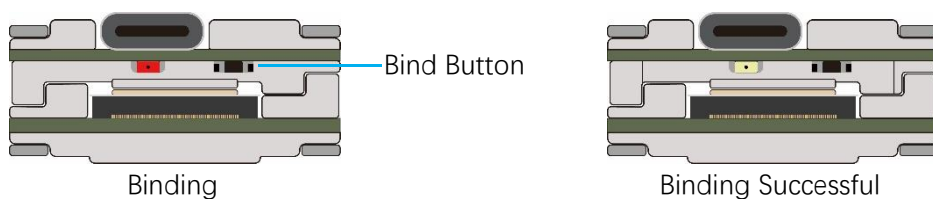
2. Press the VISTA bind button, the indicator light turns red, indicating that it is binding. Then the indicator light turns yellow, means the binding is successful, and the FPV Goggles will display the received picture.



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.

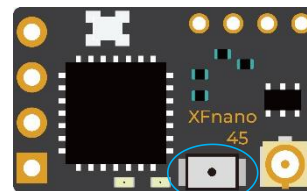
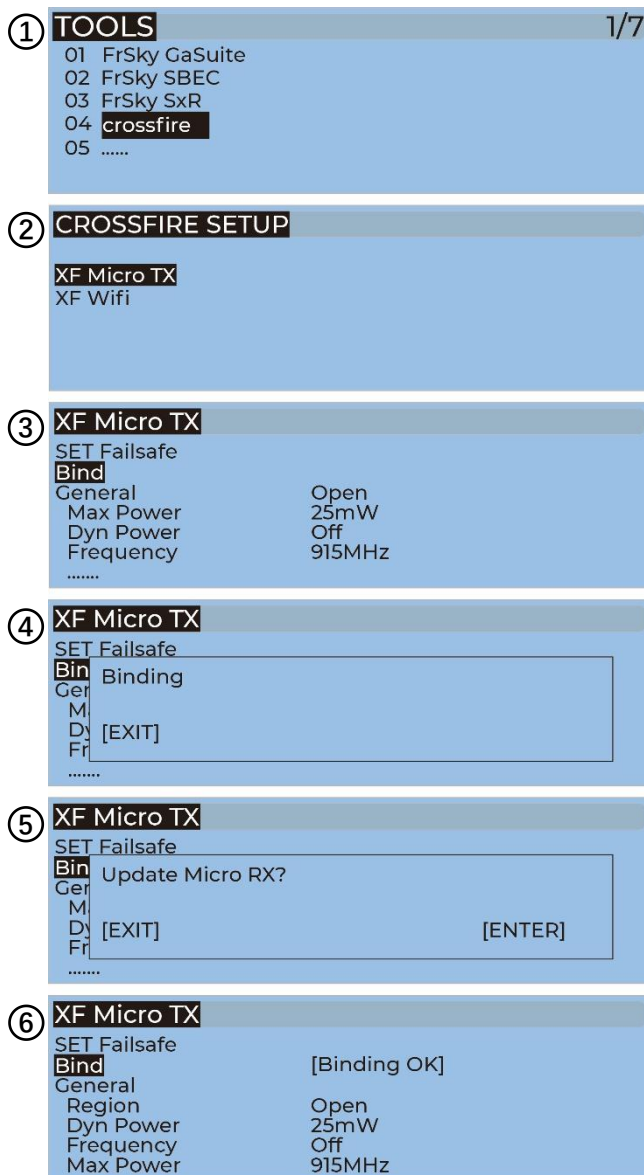


4. Press the VISTA bind button, the indicator light turns red, indicating that it is binding. Then the indicator light turns yellow, means the binding is successful. And the remote controller indicator light turns Green.

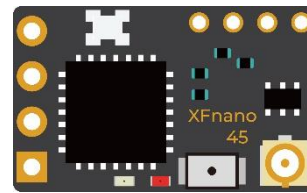


# Bind TBS NanoRX:

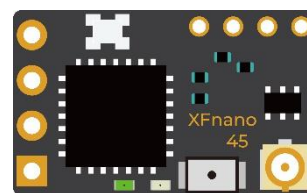
1. For Taranis X9D/X9D Plus/X9E and Taranis QX7, turn on the transmitter, go to the TOOLS – CROSSFIRE SETUP – XF Micro TX ,and select Bind.
2. Turn on the receiver while holding the bind button on the receiver, release the button and the green LED on flash .and then holding the button for 8 second ,and 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



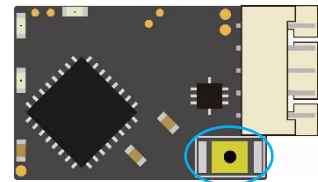
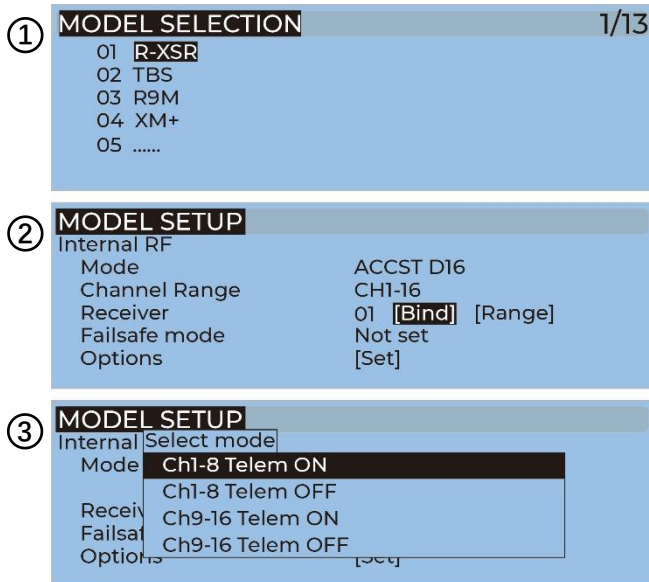
Binding Successful

# Bind FrSky R-XSR:

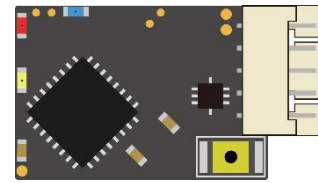
1. For Taranis X9D/X9D Plus/X9E and Taranis QX7, turn on the transmitter, go to the MENU – MODEL SETUP – PAGE 2, choose Internal RF, and select BIND.

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

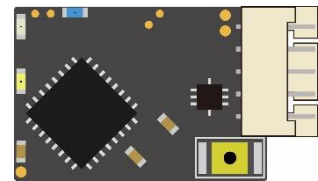
3. When the red light flashes, it indicates that the binding is successful. Turn off the receiver, and then turn on the receiver. The blue light and yellow light of receiver are on, indicating that the link is normal.



Binding Button



Binding



Binding

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## 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):

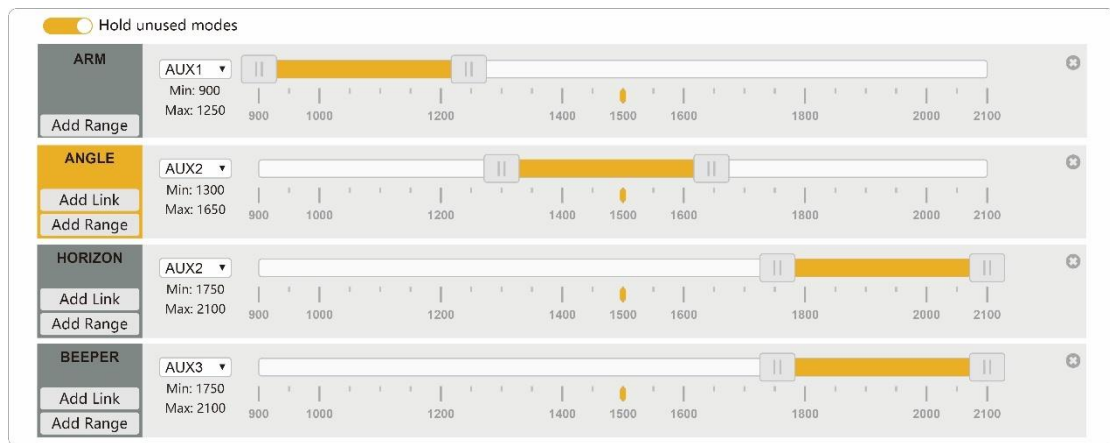
With DJI FPV Transmitter, the toggle switch is set at the factory. The corresponding functions of each switch are as follows:

SA→AUX1 (ARM)

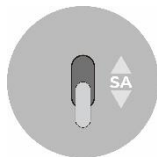
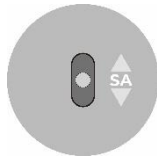
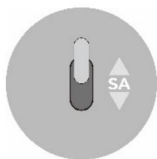
SB→AUX2 (MODES)

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.



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# 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.

MIXES		5/13
CH1	100 I Ail	
CH2	100 I Ele	
CH3	100 I Thr	
CH4	100 I Rud	
CH5	100 ↓ SF	
CH6	100 ↓ SG	
CH7	100 ↓ SA	

CH1-CH4 corresponds to four channels of rocker

CH5 (SF) →AUX1 (ARM)

CH6 (SG) →AUX2 (MODES)

CH7 (SA) →AUX3 (BEEPER)

CH8 (Vacancy) →AUX4 (Vacancy)

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.

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**MIXES** 5/13

**Edit**

- CH1 10
- CH2 10 Insert Before
- CH3 10 Insert After
- CH4 10 Copy
- CH5 10 Move
- CH6 10 Delete
- CH7 100 SA

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

**MIXES** CH5

Mix name

Source  SF

Weight -100

Offset 0

Trim

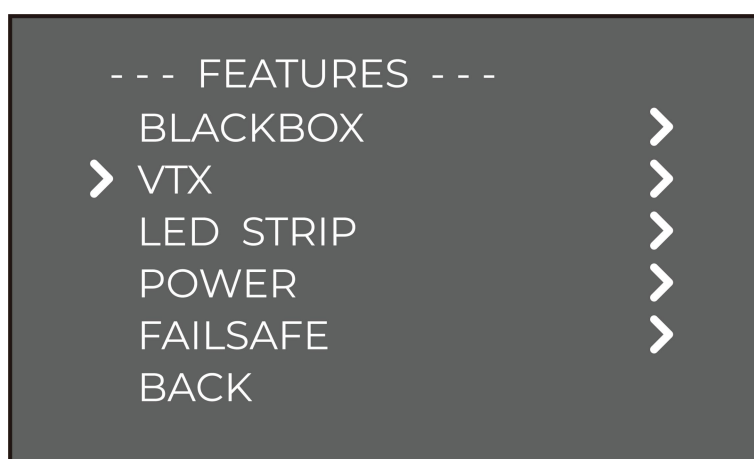
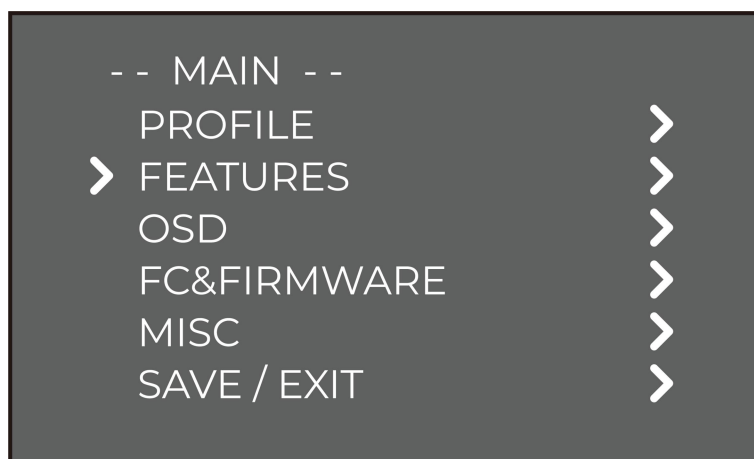
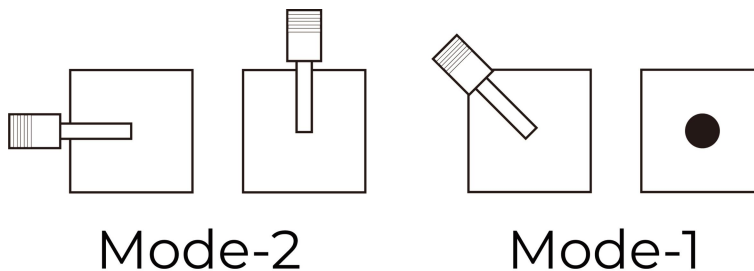
Curve Diff 0

Modes 0 1 2 3 4 5 6 7 8

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## IRC Tramp(Analog):

Turn on the transmitter,THR middle,YAW left,PITCH up,enter the OSD menu. The PITCH moves the cursor up and down, and the ELE right to enter the next item. Finally,save and exit.



```

- TRAMP -
X R7 5880 25
> PIT OFF
  BAND RACE
  CHAN 1
  (FREQ) 5880
  POWER 25
  T(C) 45
  SET >
  BACK

```

```

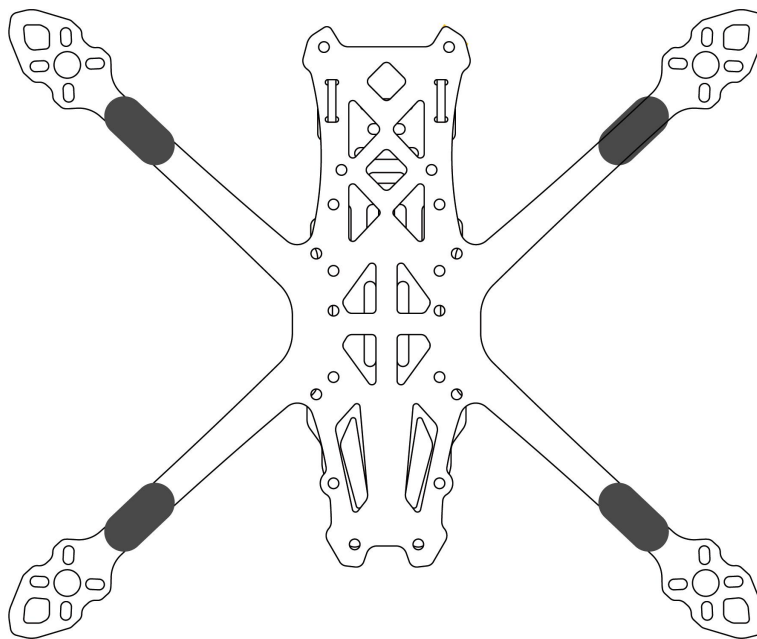
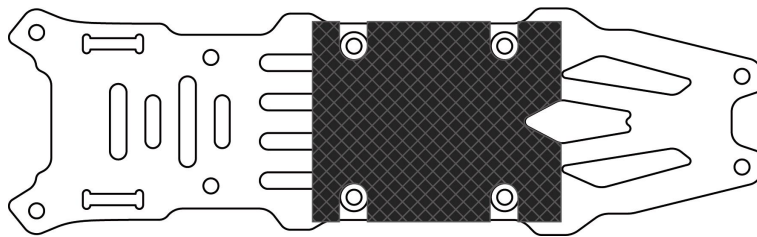
CONFIRM
> YES >
  NO

```

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

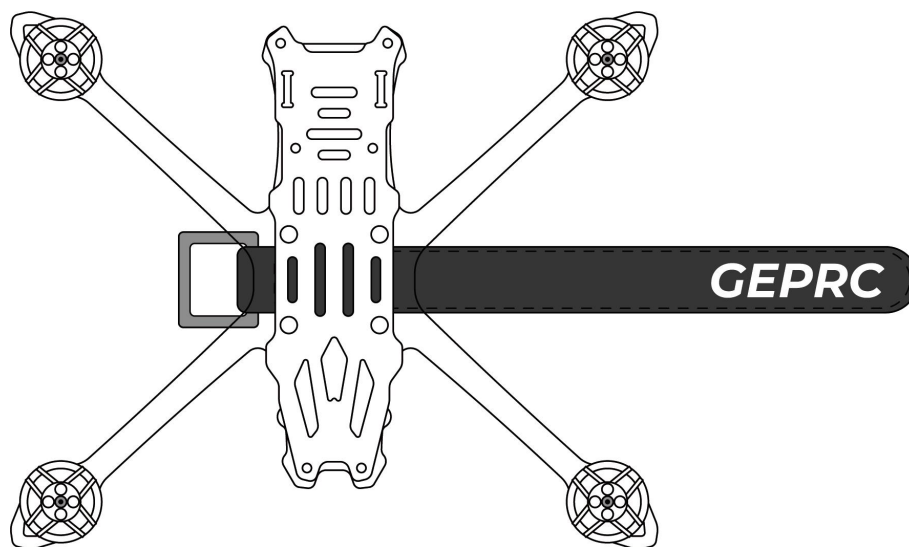
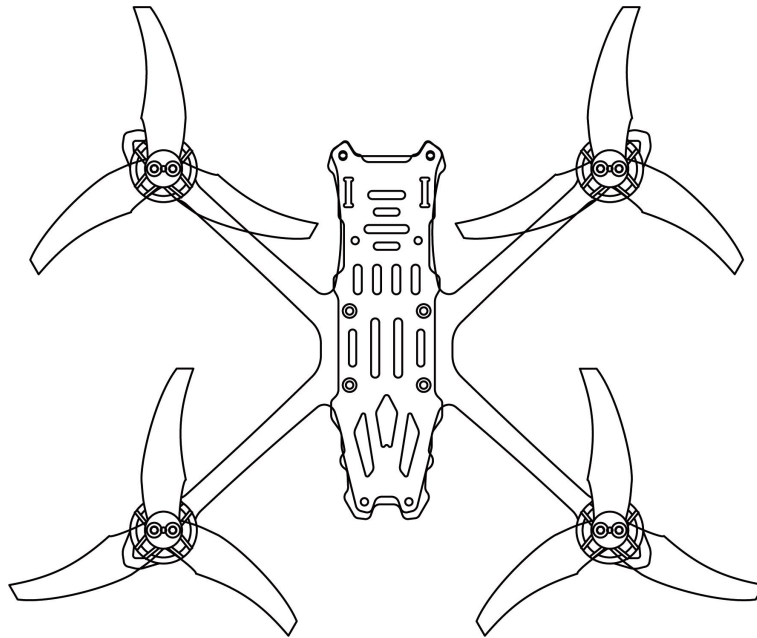
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## Install Silicone Pad,Landing pad:



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## Install Propellers, Battery strap:



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# 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.



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## Include:

- 1 x SMART 35 Quads
- 2 x EMAX3.5\*2.8\*3 Props(pairs)
- 8 x Foot pad
- 1 x The silicone pad
- 1 x L-shaped screwdriver
- 2 x Antenna protection tube
- 1 x 15\*200mm Battery strap

## Contact:

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

