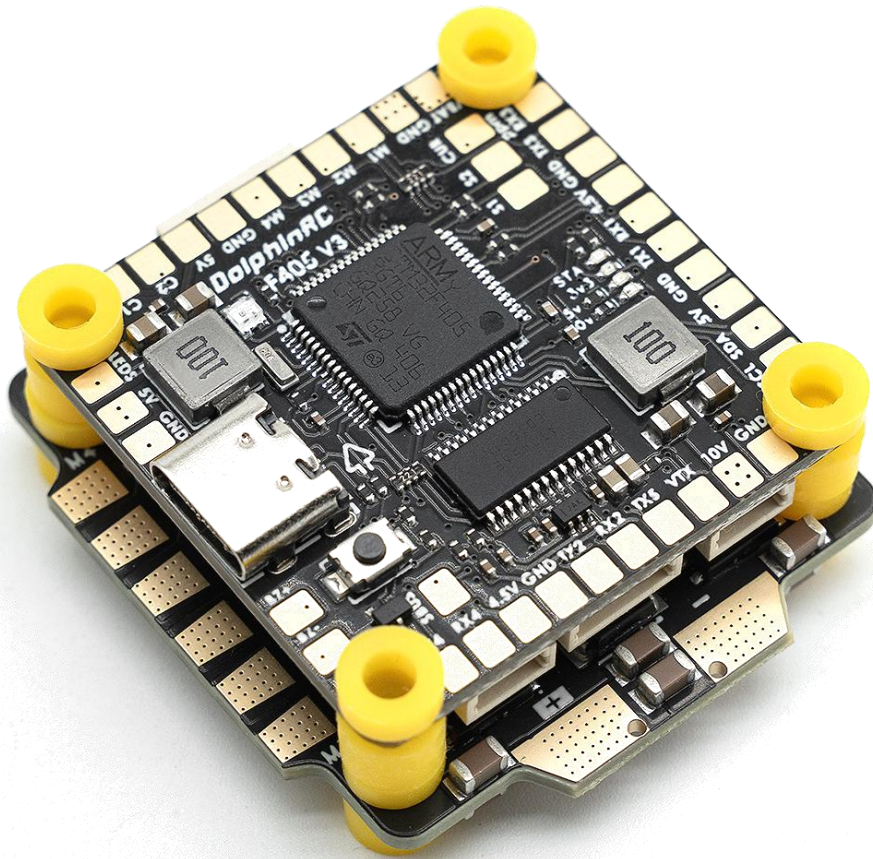




# F405 V3 FPV Stack

## User Manual

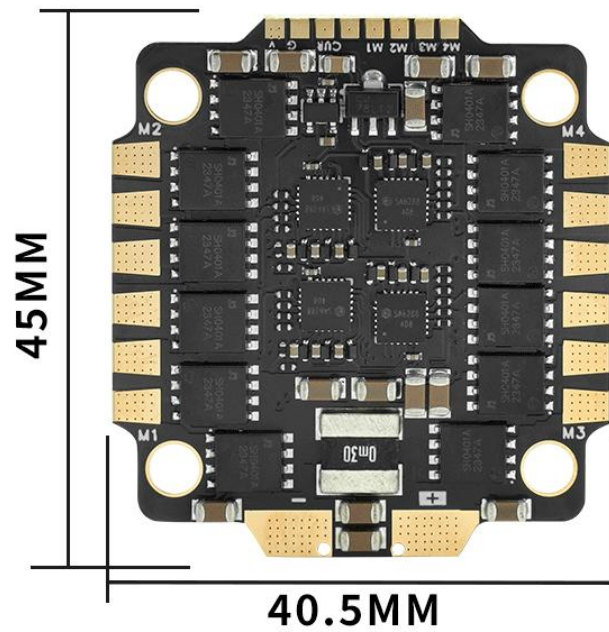
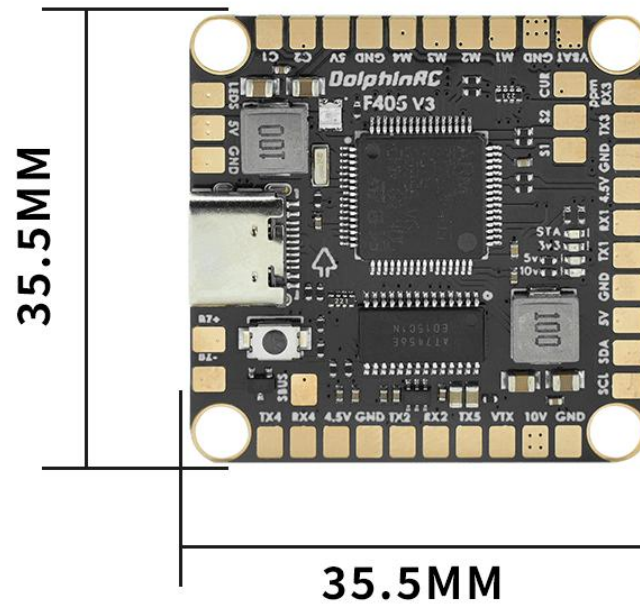


**V1.0**

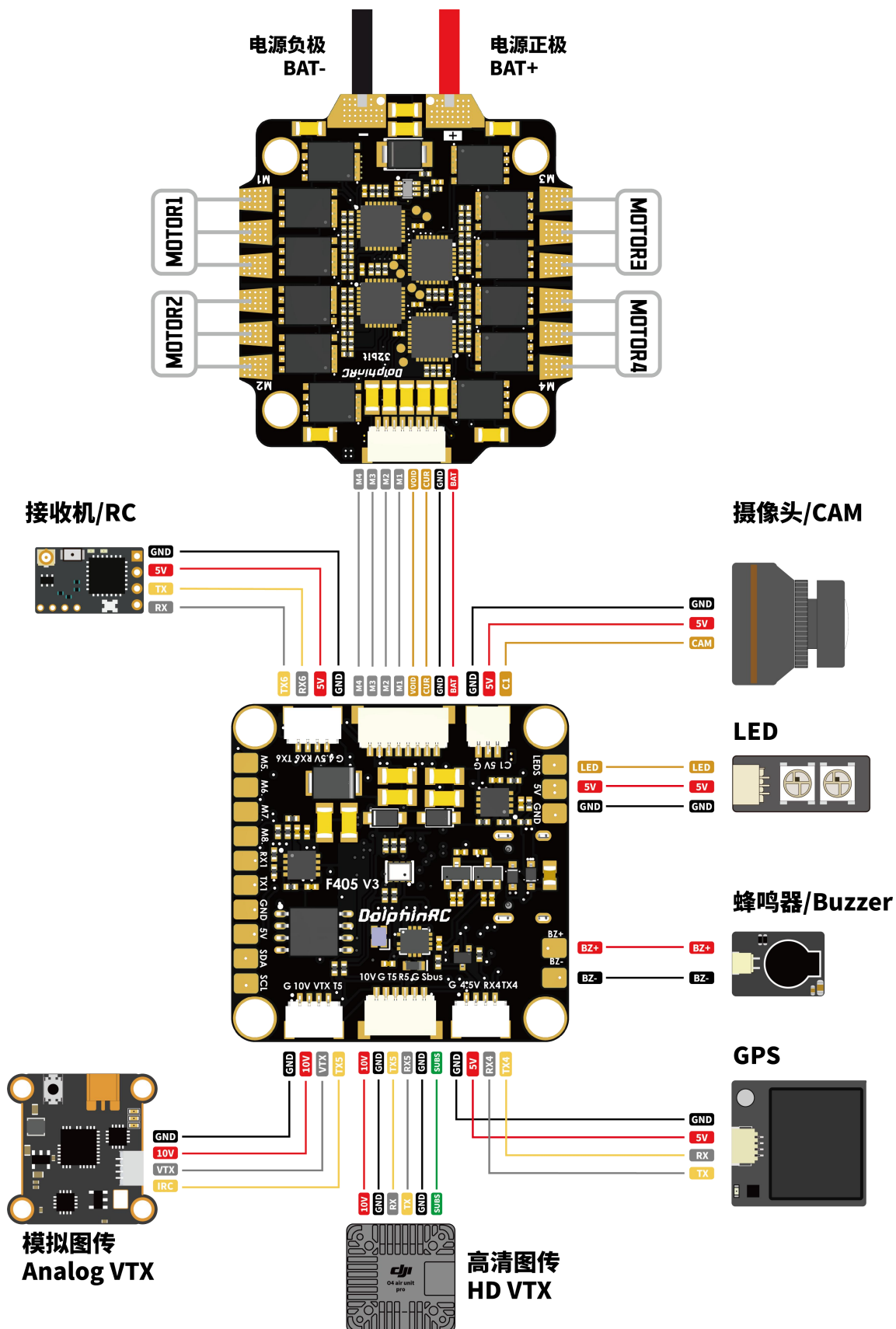
# 1. Specifications

| Flight Control Specs    |                                   |                   |
|-------------------------|-----------------------------------|-------------------|
| Product Name            | DolphinRC F405 V3                 |                   |
| Target                  | MATEKF405TE                       |                   |
| MCU                     | STM32F405                         |                   |
| IMU                     | ICM-42688-P                       |                   |
| Barometer               | SPL06-001                         |                   |
| USB Interface           | Type-C                            |                   |
| Black Box               | 16M                               |                   |
| UART                    | 6                                 |                   |
| ESC Signal Interface    | 8                                 |                   |
| BEC                     | 3.3V/0.5A, 5V3A, 12V2.5A          |                   |
| Analog Camera           | Support dual switching            |                   |
| Input voltage           | 6-30V (2-6S Lipo)                 |                   |
| Product size            | 36*36*8mm                         |                   |
| Hole                    | 30.5*30.5mm/Φ4mm                  |                   |
| Weight                  | 7.7±0.1g (excluding accessories)  |                   |
| ESC Specs               |                                   |                   |
| Product Name            | DolphinRC 50A ESC                 | DolphinRC 60A ESC |
| MCU                     | AT32F421                          |                   |
| Firmware                | 32-bit                            |                   |
| Max. Continuous Current | 50A                               | 60A               |
| Max. Burst Current      | 55A (5S)                          | 65A (5S)          |
| Input voltage           | 6-30V (2-6S Lipo)                 |                   |
| Product size            | 45*41*6mm                         |                   |
| Hole                    | 30.5*30.5mm/Φ4mm                  |                   |
| Weight                  | 13.2±0.1g (excluding accessories) |                   |

## 2. Product size



### 3、Wiring Instructions



## 4、Camera switching and VTX on/off switch

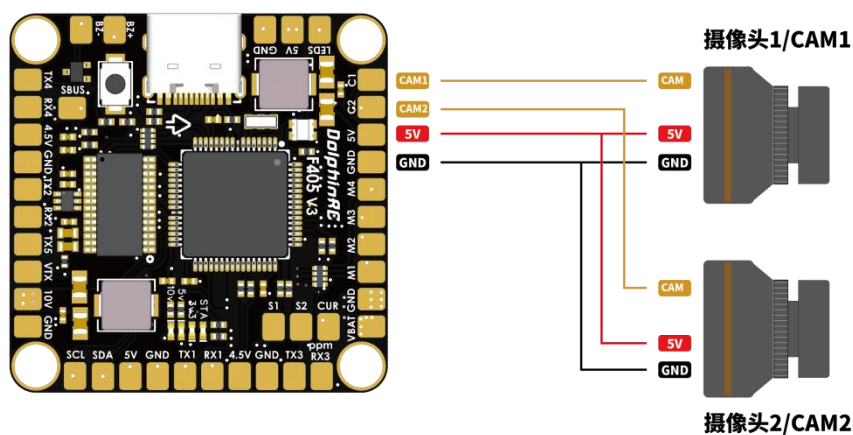
### Camera switching function settings

If two cameras are used, you can set the user1 switch in **[Mode]**. When it is not in the triggered state, the camera 1 screen will be displayed, and when it is in the triggered state, the camera 2 screen will be displayed.

Mode settings:



Wiring method:



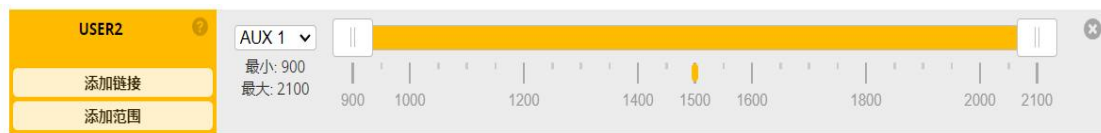
### VTX on/off switch setting

If you need to use the VTX on/off switch function, you can set the user2 switch in **[Mode]**. If it is not in the triggered state, the VTX will not be powered on and will not enter the working state. If it is in the triggered state, the VTX will be powered on and enter the working state. If you do not need to use this function, set the channel trigger threshold to the maximum.

Use the VTX on/off switch mode setting:



No need to use the VTX on/off switch mode setting:



## 5、Contact Details

Official Website: <https://dolphinrc.com/>

Official China Taobao store:

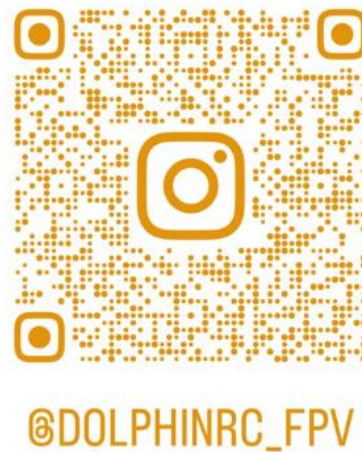
[https://shop220846899.taobao.com/?spm=a21n57.shop\\_search.0.0.3a4a3b35Bv61i2](https://shop220846899.taobao.com/?spm=a21n57.shop_search.0.0.3a4a3b35Bv61i2)

AliExpress:

[https://www.aliexpress.com/store/1102377215?spm=a2g0o.store\\_pc\\_allItems\\_or\\_groupList.pcShopHead\\_2003923376054.0](https://www.aliexpress.com/store/1102377215?spm=a2g0o.store_pc_allItems_or_groupList.pcShopHead_2003923376054.0)



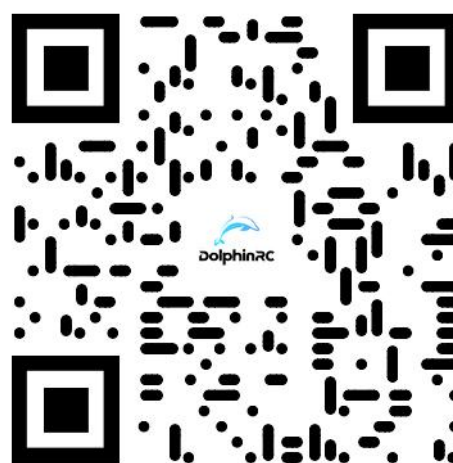
DolphinRC Facebook



DolphinRC Instagram



DolphinRC YouTube Channel

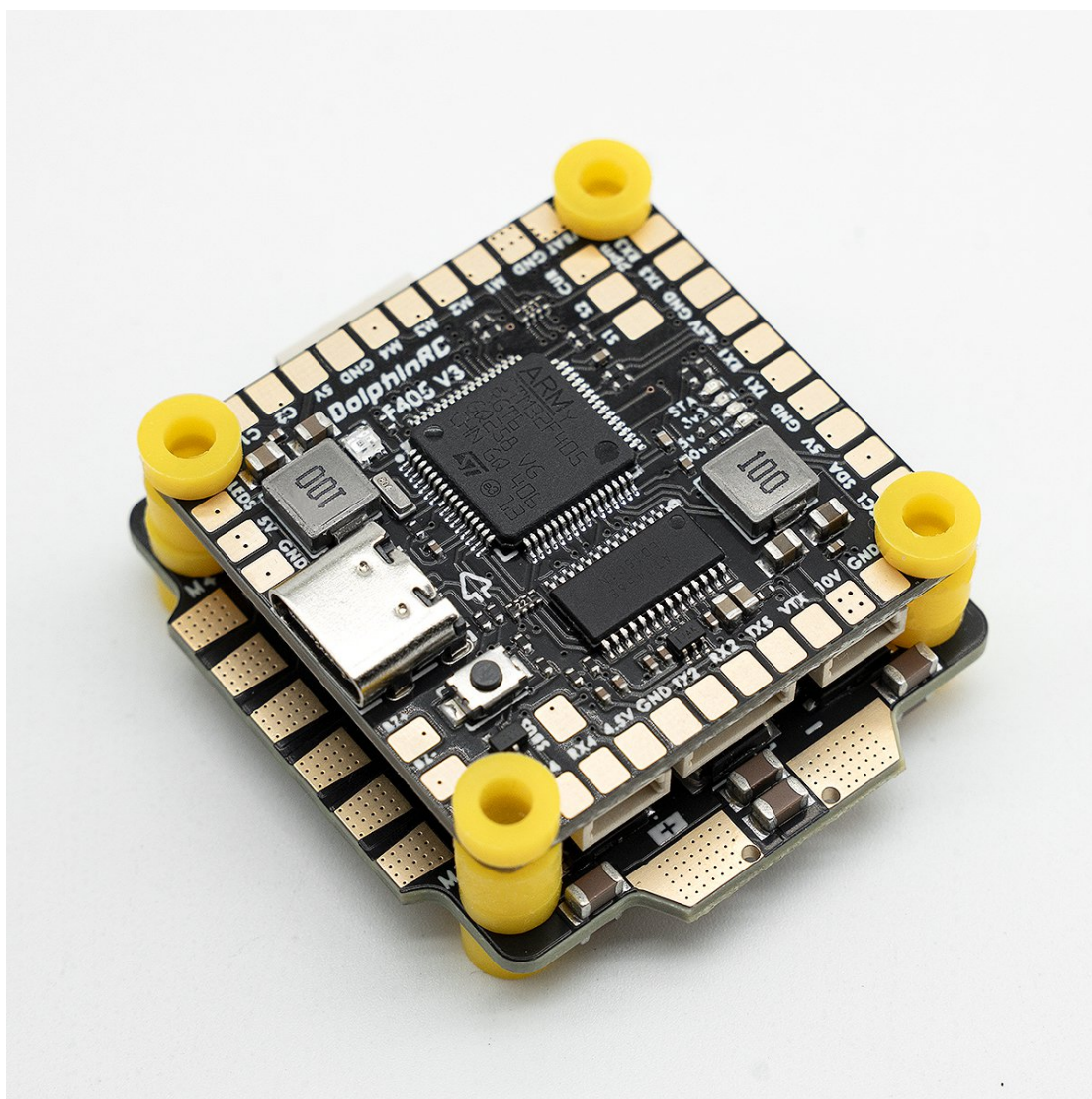


DolphinRC Website



# F405 V3 飞塔

## 用户使用手册

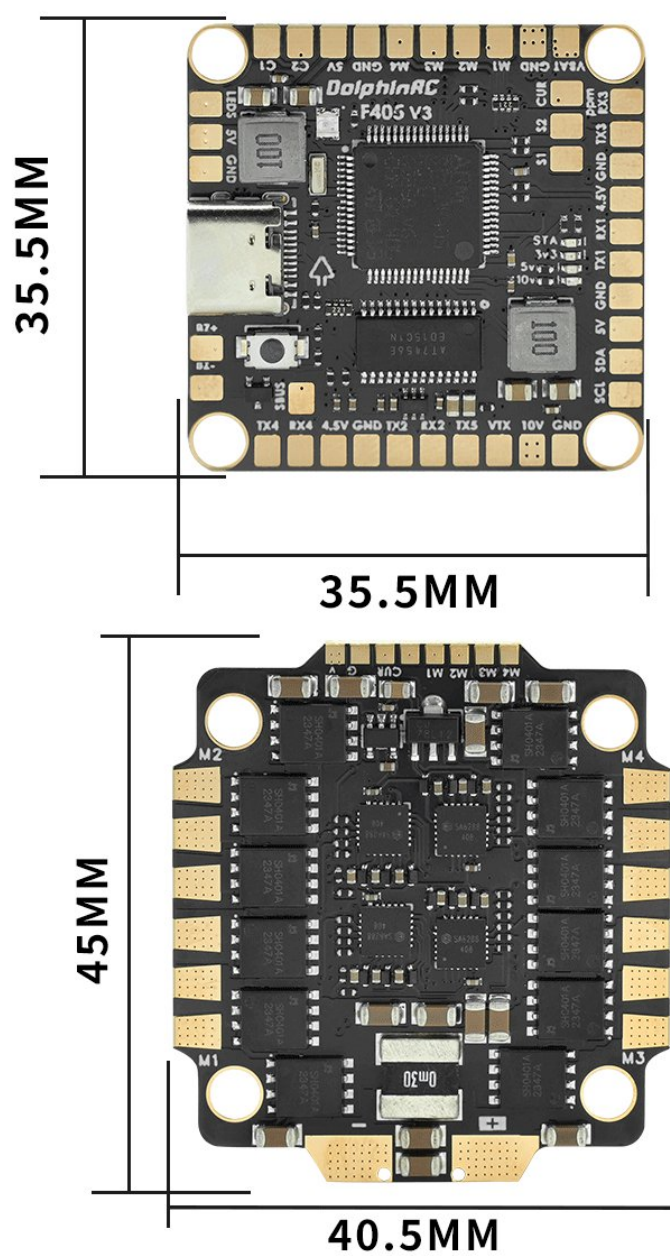


V1.0

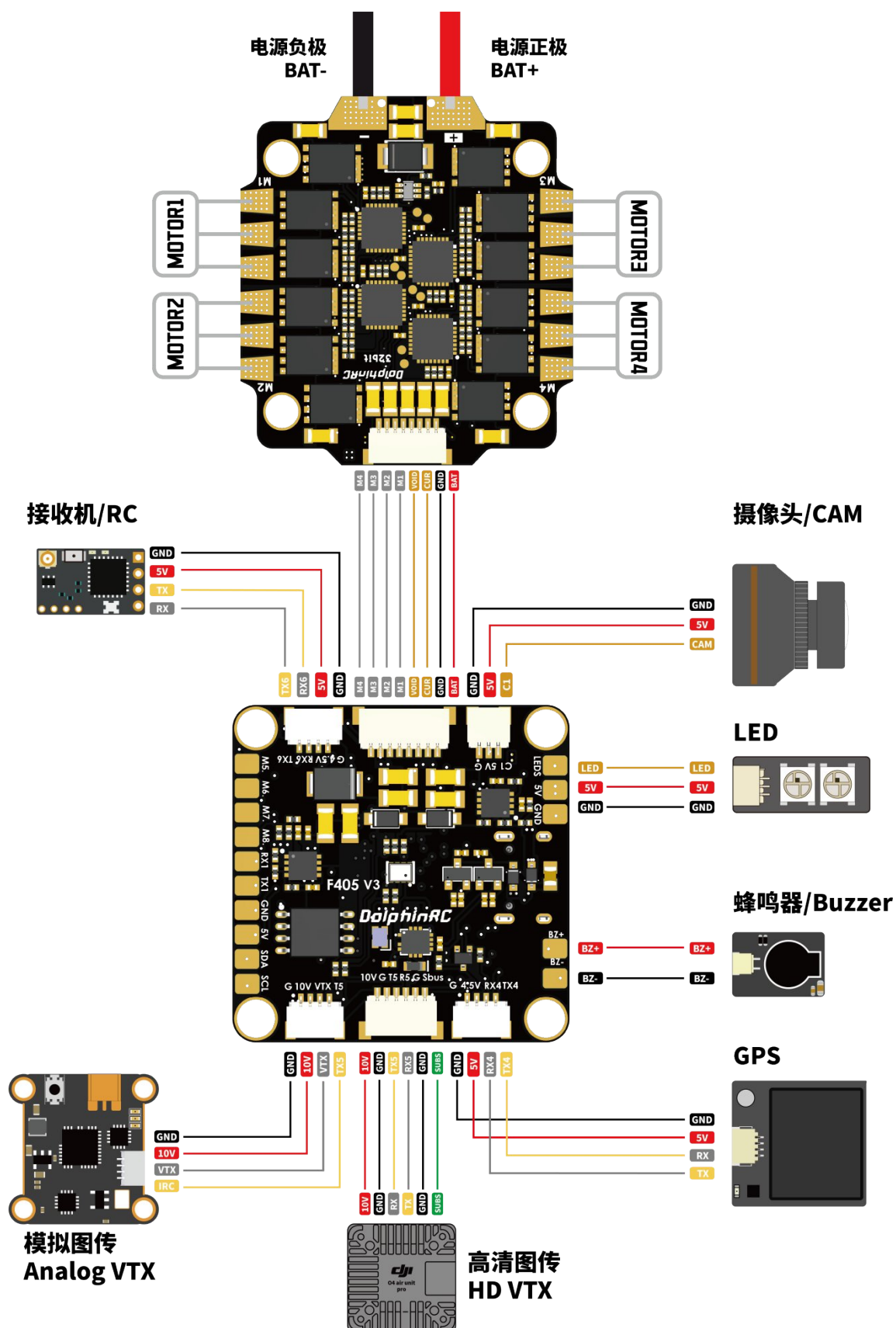
# 一、规格参数

| 飞控参数    |                        |                   |
|---------|------------------------|-------------------|
| 产品名称    | DolphinRC F405 V3      |                   |
| 固件名称    | MATEKF405TE            |                   |
| 主控      | STM32F405              |                   |
| 陀螺仪     | ICM-42688-P            |                   |
| 气压计     | SPL06-001              |                   |
| USB接口类型 | Type-C                 |                   |
| 黑匣子     | 16M                    |                   |
| UART接口  | 6组                     |                   |
| ESC信号接口 | 8组                     |                   |
| BEC     | 3.3V/0.5A、5V3A、12V2.5A |                   |
| 模拟摄像头   | 支持双切换                  |                   |
| 输入电压    | 6-30V（2-6S Lipo）       |                   |
| 产品尺寸    | 36*36*8mm              |                   |
| 安装孔距    | 30.5*30.5mm/Φ4mm       |                   |
| 重量      | 7.7±0.1g（不含配件）         |                   |
| 电调参数    |                        |                   |
| 产品名称    | DolphinRC 50A ESC      | DolphinRC 60A ESC |
| 主控      | AT32F421               |                   |
| 电调位数    | 32位                    |                   |
| 持续电流    | 50A                    | 60A               |
| 峰值电流    | 55A（5S）                | 65A（5S）           |
| 输入电压    | 6-30V（2-6S Lipo）       |                   |
| 产品尺寸    | 45*41*6mm              |                   |
| 安装孔距    | 30.5*30.5mm/Φ4mm       |                   |
| 重量      | 13.2±0.1g（不含配件）        |                   |

## 二、产品尺寸



## 三、接线说明

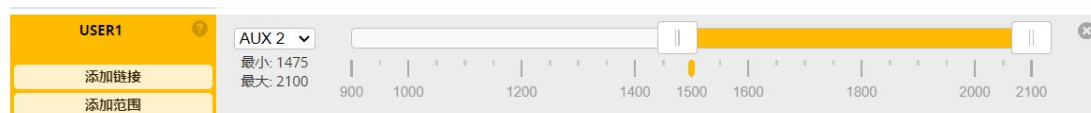


## 四、摄像头切换及图传通断开关

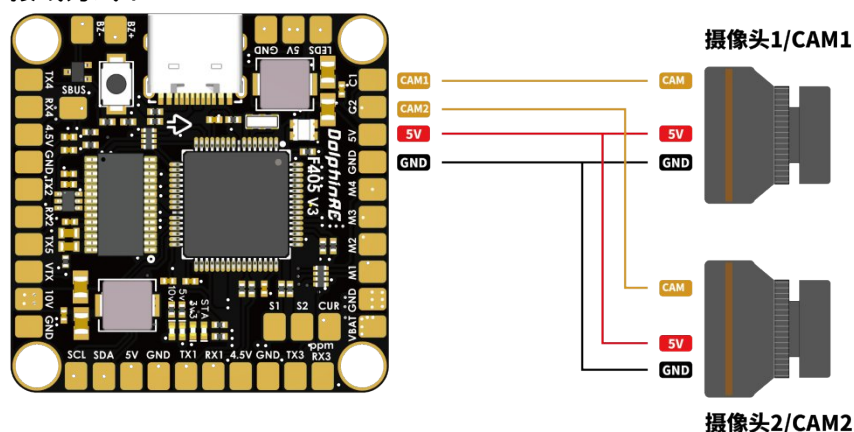
### 摄像头切换功能设置

如使用两个摄像头则可以在[模式]中设置user1号开关，未处于触发状态则显示摄像头1号画面，处于触发状态则显示摄像头2号画面。

模式设置：



接线方式：



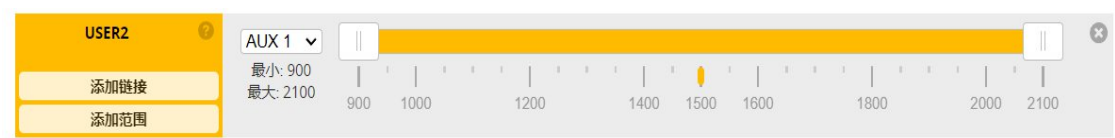
### 图传通断开关设置

如需使用图传通断开关功能则可以在[模式]中设置user2号开关，未处于触发状态则图传不通电不进入工作状态，处于触发状态则图传通电进入工作状态；如无需使用此项功能则将通道触发阈值拉满。

使用图传通断开关模式设置：



无需使用图传通断开关模式设置：



## 五、联系方式

官网：<https://dolphinrc.com/>

官方淘宝店铺：[https://shop220846899.taobao.com/?spm=a21n57.shop\\_search.0.0.3a4a3b35Bv61i2](https://shop220846899.taobao.com/?spm=a21n57.shop_search.0.0.3a4a3b35Bv61i2)

速卖通：

[https://www.aliexpress.com/store/1102377215?spm=a2g0o.store\\_pc\\_allItems\\_or\\_groupList.pcShopHead\\_2003923376054.0](https://www.aliexpress.com/store/1102377215?spm=a2g0o.store_pc_allItems_or_groupList.pcShopHead_2003923376054.0)



官方微信号



官方公众号



官方抖音号



官方B站