

# SKYDROID 云卓

云卓科技（福建）有限公司



## SKYDROID C01 PRO 电子云台

用户手册

V1.0

## 注意

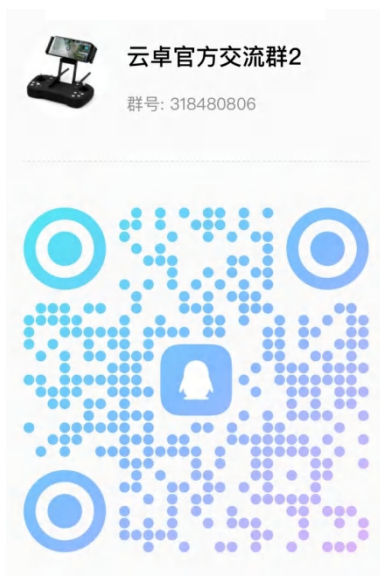
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**注意：**如果不遵循说明进行操作，可能会导致财产损失和轻微伤害。

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  - 3.返修时需提供购买凭证和保修卡或网络平台交易记录。
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  - 5.云卓产品将由云卓科技（福建）有限公司提供终身售后服务，属于非人为造成的质量问题，一年内免费保修；对于自购买之日起人为的损坏、改装、拆机及超过一年免费保修期的，用户须支付往返邮费及维修费用。
  - 6.为确保您的权益受到保护，并能及时有效地为您服务，请在购买云卓产品时完整填写好保修卡及索要购机凭证。用户享受本售后服务条款必须提供保修卡及购机凭证。
  - 7.返修产品将于云卓公司收到后的 15 个工作日内寄回给顾客，并附上维修报告。
  - 8.以上售后服务条款仅限于中国大陆销售的云卓产品。
- 港澳台及海外客户的售后问题发至邮箱 sales01@skydroid.xin, 具体售后细则视情况而定。

## 警告和免责声明

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C01 PRO 出厂前已根据其所搭载的相机和镜头完成调试，切勿自行拆解相机或者改变其机械结构，否则将会导致相机工作异常、性能下降。

为了您和他人的安全，请确保云台调试时，飞行器处于安全的状态，不在易燃易爆

爆及有儿童的环境下通电调试，强烈建议您在调试前取下飞行器的螺旋桨。

A) 环境温度：-10°C ~ 60°C

B) 贮存温度：-25°C ~ 60°C

C) 大气压力：86kPa~106kPa

D) 使用地点不允许有爆炸危险的介质，周围介质中不应含有腐蚀金属和破坏绝缘的气体及导电介质，不允许充满水蒸气及有严重的霉菌存在。

E) 使用地点应具有防御雨、雪、风、沙、灰的设施。

由于我公司无法控制用户的具体使用、安装、改装以及使用不当等情况。由以上所造成的直接、间接损失或损失，我公司将不承担相应的损失及赔偿责任。如使用、安装、组装云卓科技产品，相应的结果由用户承担。因使用本产品而造成的间接或直接损失与伤害，我公司概不负责。

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## 一、 产品简介

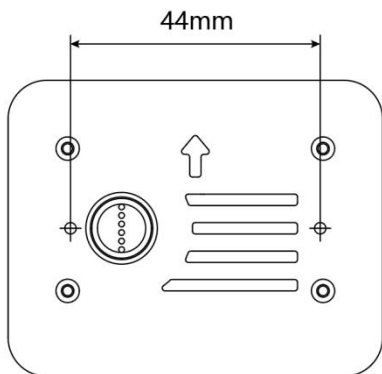
C01 PRO 电子云台，专为无法安装机械云台的无人机、无人车、无人船等移动设备量身打造，它采用超广角鱼镜头设计，搭配 1/2.53 英寸传感器与 500 万高清像素，能输出 720P/30 帧的高清流畅画面——广角视野覆盖作业全场景，高清解析力捕捉每一处细节，让飞手在操控过程中对田间角落、设备周边环境了如指掌，从视觉层面筑牢作业安全防线。

轻量化设计是 C01 PRO 的另一大优势，仅重 60 克，加上支架也只有 72 克，大幅降低搭载设备的负载压力，间接提升续航能力与操控灵活性，为长时间户外作业提供可靠支持。

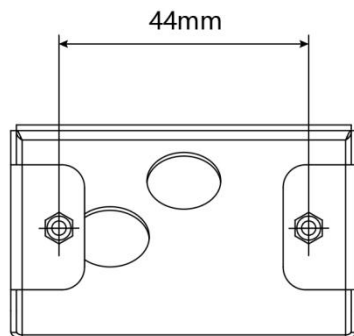
考虑到农业场景中频繁的药液喷洒、粉尘侵袭等复杂环境，C01 PRO 严格按照 IP65 防护等级设计，可有效抵御高压药液冲刷与尘埃侵入，确保设备在恶劣条件下稳定运行，显著提升使用耐久性与可靠性（**注意：**防溅、抗水、防尘功能并非永久有效，防护性能可能会因日常磨损而下降。由于浸入液体而导致的损坏不在保修范围之内）。

## 二、安装与使用

C01 PRO 电子云台和 C01 PRO 支架的螺丝孔位与间距示意图如下：



C01PRO



C01PRO 支架

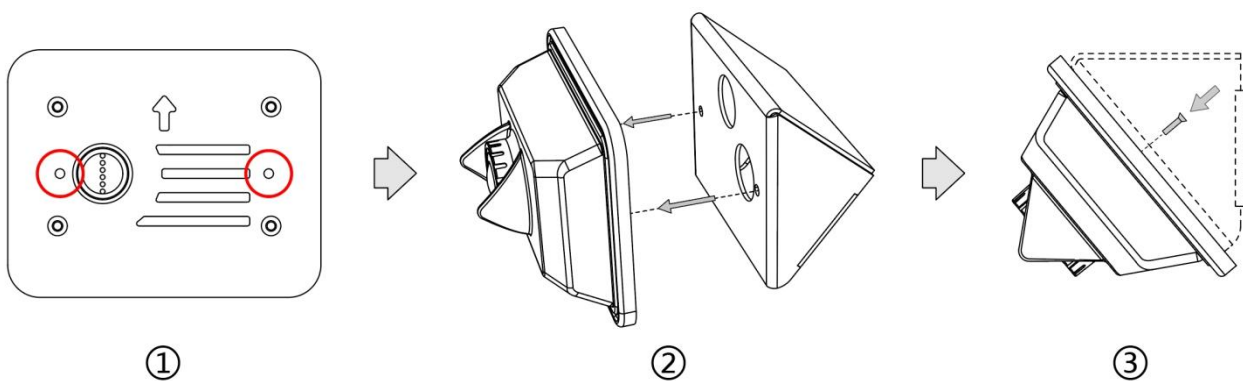
建议安装固定 C01 PRO 的螺丝为 HM2\*8 机牙螺丝，用量 2。C01 PRO 支架的固定螺丝为 PM2.5\*3，用量 2。

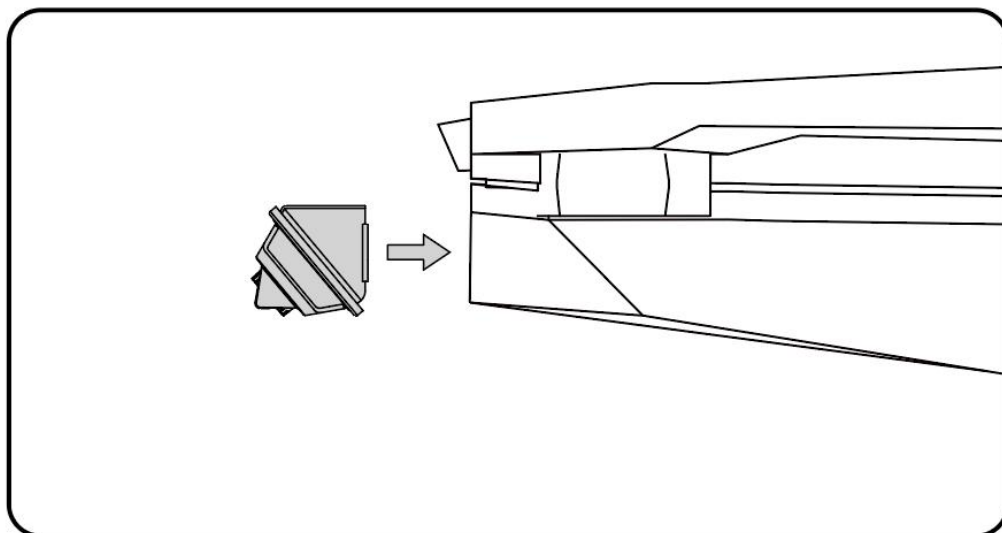
固定方式一：

### 搭配支架安装

将 C01 PRO 镜头背后箭头朝上，与我们搭配的 40°角支架用螺丝进行固定锁紧，如下图

**注意：**安装过程中需与载具进行硬性连接，确保连接结构稳固可靠。



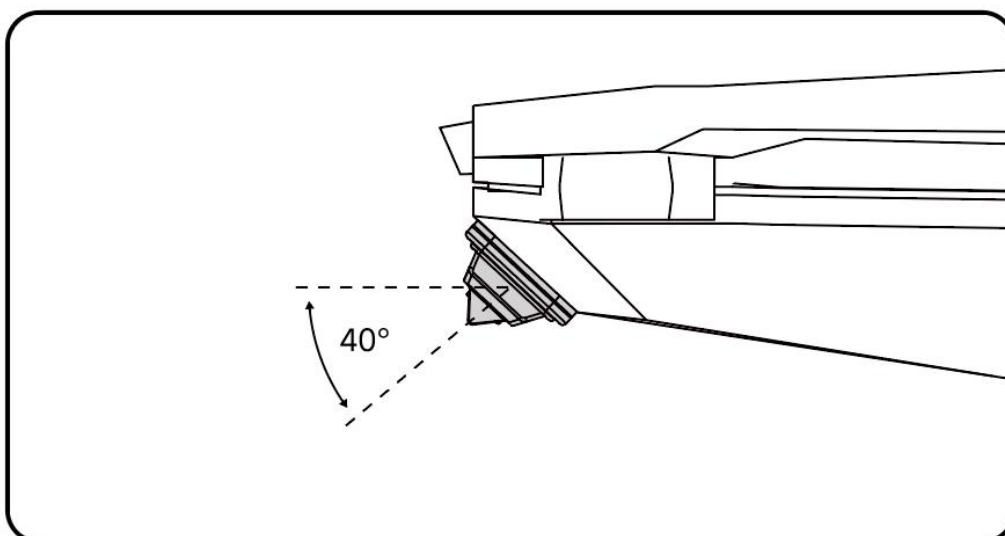


固定方式二：

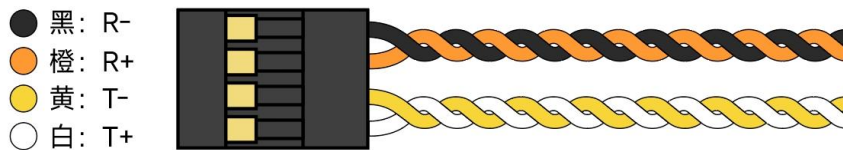
### 无支架安装

载具安装位置满足  $40^\circ$  安装的，可不安装  $40^\circ$  支架，将 C01 PRO 镜头背后箭头朝上，直接与载具进行固定，使之匹配您的飞机达到画面稳定。

**注意：**安装过程中需与载具进行硬性连接，确保连接结构稳固可靠。



### 三、接口定义说明



### 四、产品参数

| C01 PRO 参数      |                                     |
|-----------------|-------------------------------------|
| 视频输出信号接口        | 网口                                  |
| 输入电源            | 7.2V~80V                            |
| 工作电流            | 100mA/12V                           |
| 工作环境温度          | -10℃~60℃                            |
| 重量              | 60g                                 |
| 支架重量            | 12g                                 |
| 防护等级            | IP65                                |
| C01 PRO 尺寸      | 66mm×52mm×31.9mm                    |
| 支架尺寸            | 61mm×46.7mm×26.5mm                  |
| 可控俯仰角度          | -90°~0°                             |
| 像素              | 5MP                                 |
| 传感器尺寸           | 1/2.53 英寸                           |
| 光圈              | F2.2                                |
| 焦距              | 2.20mm                              |
| HFOV/ VFOV/DFOV | 154.4°/ 111.8°/204°                 |
| 输出方式            | RTSP 码流 H265                        |
| 图传分辨率           | 720P (1280*720) @30fps              |
| 防抖方式            | EIS 防抖                              |
| 视频流地址           | rtsp://192.168.144.108:554/stream=0 |

## 五、C01 PRO 电子云台的使用

遥控器安装最新版云台 FPV 软件，并打开。

软件地址：<https://file.skydroid.xin/SkydroidCameraFPV.apk>

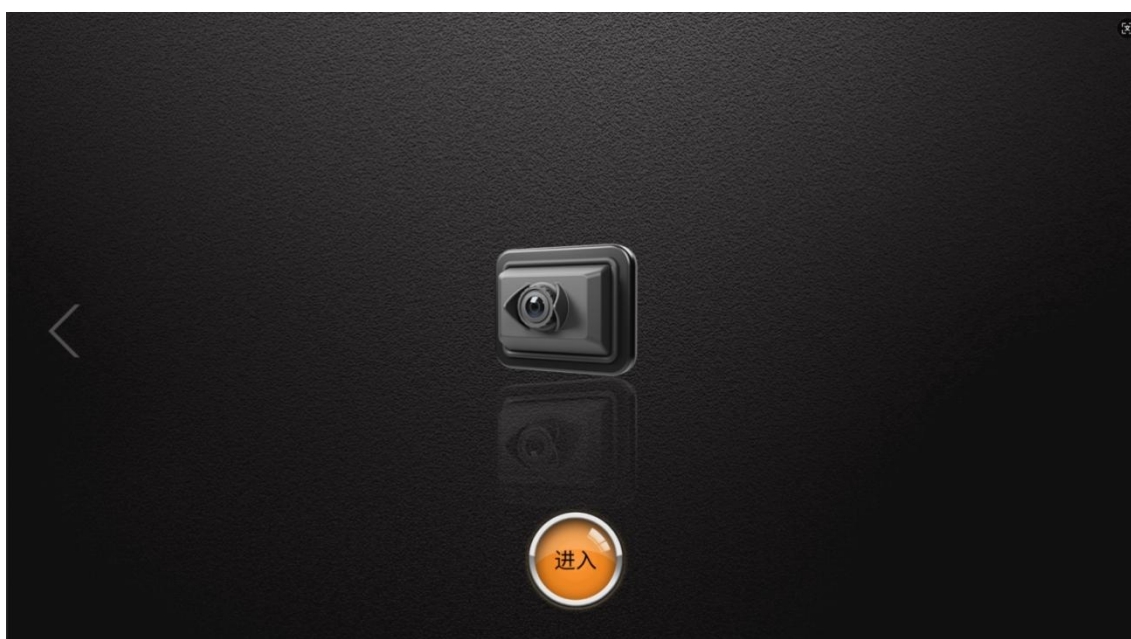


### 1. 云台启动

**注意：**C01 PRO 上电时会自动进行陀螺仪校准，请将云台保持静止状态。

### 2. 打开云台 FPV

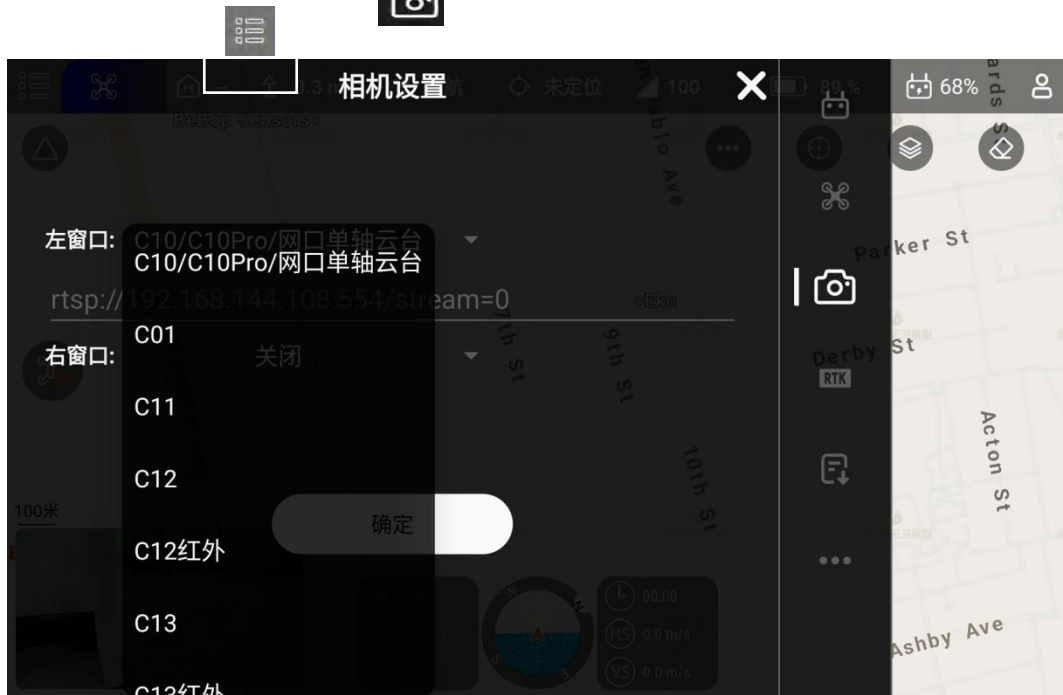
选择 C01 的图案，点击进入



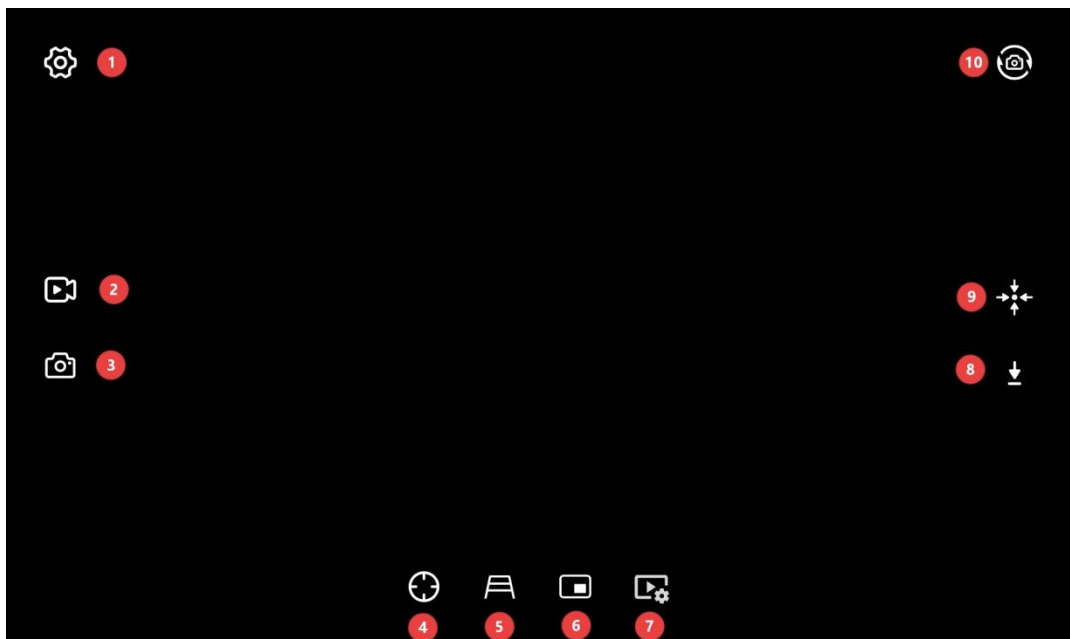
若使用 FLY GCS 则可进行如下设置出图：

软件地址 <https://file.skydroid.xin/SkydroidFly.apk>

FLY APP 首页左上角 ->  -> C01



### 3. 云台 FPV 主页介绍



| 序号 | 注解   | 序号 | 注解   |
|----|------|----|------|
| 1  | 系统设置 | 6  | 悬浮窗  |
| 2  | 录像   | 7  | 参数设置 |
| 3  | 拍照   | 8  | 一键向下 |
| 4  | 十字线  | 9  | 全局回中 |
| 5  | 倒车线  | 10 | 相机切换 |

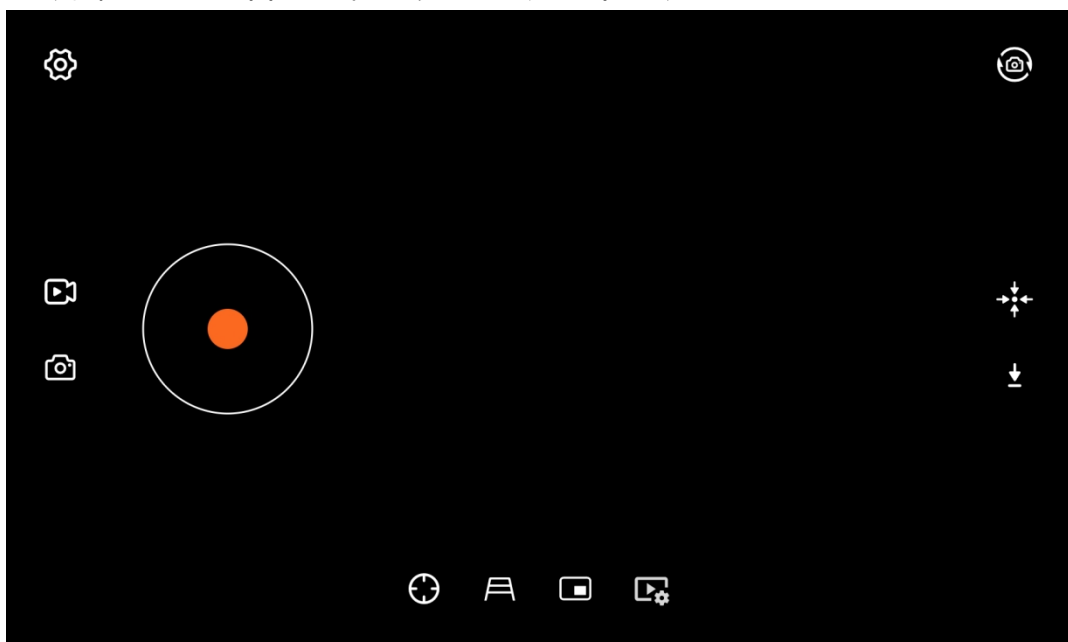
#### 4. 云台控制

点击 7 参数设置  -> 云台控制，有三种控制方式可供选择，可同时勾选多种式。



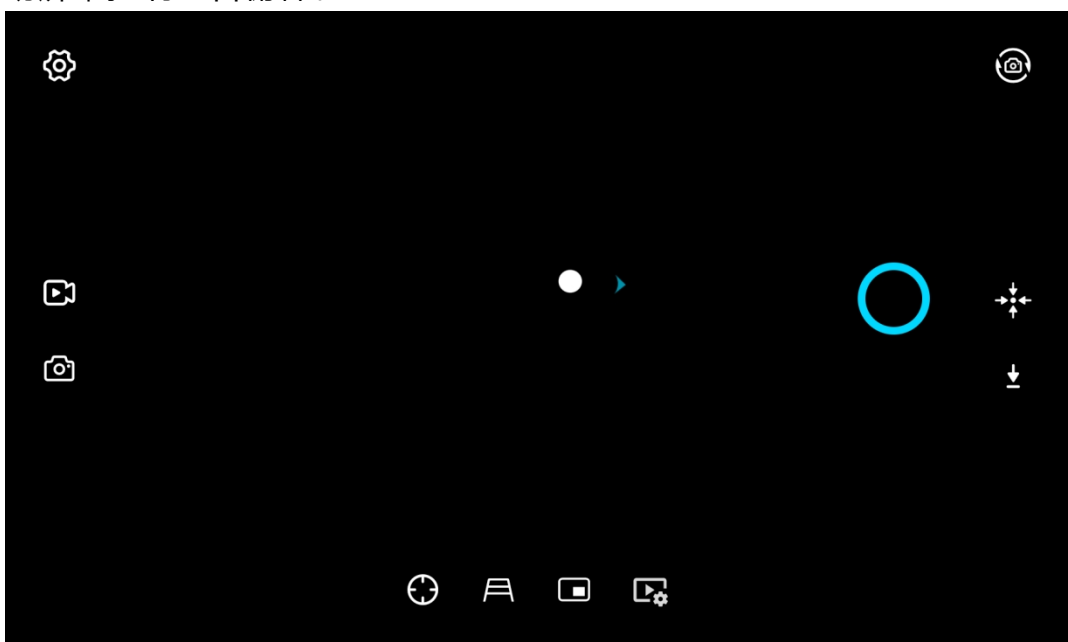
### （1）使用虚拟摇杆控制：

可通过虚拟摇杆控制云台俯仰，且支持一键回中等功能。



### （2）使用手势控制：

通过滑动屏幕控制云台俯仰。



### （3）使用遥控器通道控制：

通过遥控器 12 通道控制云台俯仰。

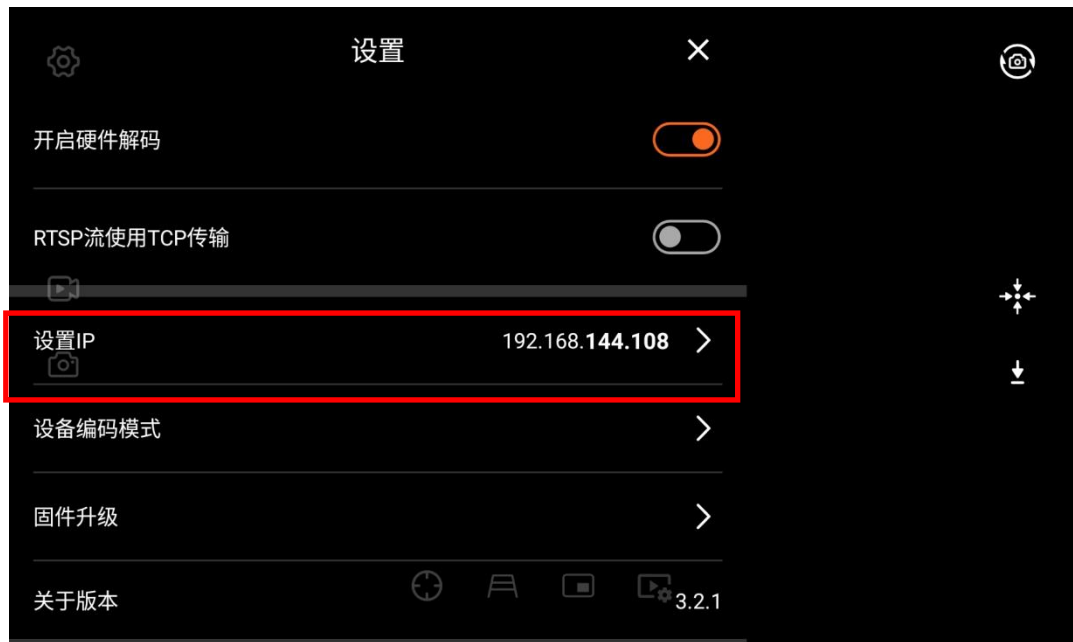
**备注：**遥控器通道可通过设备助手->舵量查看查询

## 5. 设置 ip

支持对 C01 PRO 相机的 IP 地址与网关进行修改。

**注意：**修改完成后需同步更新对应的视频流地址，方可正常获取视频画面，功能设置密码为 999999。

例如：若将设备 IP 地址修改为 192.168.144.107，那么对应的视频流地址应调整为 rtsp://192.168.144.107:554/stream=0 。



## 6. 固件更新

升级固件时，需先确保遥控器已联网。完成联网后，点击固件更新选择下列更新选项。



### 6.1 单片机固件升级

#### (1) 联网在线更新

点击“检查更新”，即可查看单片机当前的固件版本号以及在线可升级的最新版本号。若需升级，点击“立即更新”便能进行在线升级，整个升级过程大约需要 1 分钟。



## （2）本地固件更新

点击页面“本地固件”选项，选择相应的本地文件升级即可。



## 6.2 相机固件升级

### （1）联网在线更新

点击“检查更新”，即可查看相机当前的固件版本号以及在线可升级的最新版本号。若需升级，点击“立即更新”便能进行在线升级，整个升级过程大约需要 2 分钟。



## （2）本地固件更新

点击页面“本地固件”选项，选择相应的本地文件升级即可。



## 六、售后地址与技术支持

售后或退换货地址：福建省泉州市丰泽科技路育成基地 E 幢 1 楼

收件人：售后维修，电话：18876386351

### 售后：

寄回请附纸条，写明联系方式、回寄地址、寄回原因等，否则不予处理。

### 退换货：

寄回请附纸条，写明联系方式、退货原因等，保留出库单、原包装，未写明发回原因导致的损失由发回方自行承担，拒收到付件。

此说明书不一定为最新版本，最新版本说明书请移步至官网资料下载中心-资料文档获取下载：<https://www.skydroid.xin/#/serviceSupport/downloadCenter>



# SKYDROID C01 PRO Electronic Gimbal

## User Manual v1.0

## Caution:

This product uses the following terms to classify and explain potential hazards that may arise from improper operation.

**Caution:** Failure to follow the instructions may result in property damage and minor injury.

**Caution:** Failure to follow the instructions may result in property damage, major accidents, and serious injury.

**Warning:** Operate the product only after reading the entire user manual and becoming familiar with its functions. Improper operation of this product may cause serious injury to yourself or others, or lead to product damage and property loss. This product is relatively complex and requires a period of time to become familiar with before it can be used safely; additionally, basic knowledge is required to operate it. Without a strong safety awareness, improper operation may cause product damage and property loss, and even serious injury to yourself or others.

This product is not suitable for children. Do not use parts that are not provided or recommended by Skydroid. You shall strictly follow Skydroid's guidelines when using the product.

## After-Sales Service Terms

1. These terms apply only to products manufactured by Quanzhou Skydroid Technology Co., Ltd. They also apply to products sold by authorized Skydroid distributors.
2. For products of our company, if non-human-caused quality issues are verified by our company within one week from the date of purchase, Skydroid will afford the round-trip courier fees for the returned and repaired products. If quality issues are verified by our company for Skydroid products purchased for more than one week but less than one year, the user and Skydroid shall each afford the courier fee for sending the product for repair.
3. When returning a product for repair, the purchase certificate, warranty card,

or online platform transaction record should be provided.

4.If a Skydroid product has non-human-caused quality issues under normal use within seven days from the date of purchase, and the appearance is undamaged, the user can negotiate with the distributor for a free replacement of the same-model product with the warranty card and purchase certificate. The distributor is requested to notify Skydroid immediately for filing and replacement when receiving the product to be replaced.

5.Skydroid provides lifelong after-sales service for all Skydroid products. For non-human-caused quality issues, free warranty service is provided within one year. For damages caused by human factors, modifications, disassembly, or products beyond the one-year free warranty period from the date of purchase, the user shall pay the round-trip shipping fees and repair costs.

6.To ensure your rights are protected and that you can get timely and effective service, please fill out the warranty card completely and request a purchase certificate when buying a Skydroid product. Users shall provide the warranty card and purchase certificate to enjoy the services under these after-sales service terms.

7.Repaired products will be sent back to the customer within 15 working days after Skydroid receives them, along with a repair report.

8.The above after-sales service terms apply only to Skydroid products sold in China Mainland.

For after-sales issues of customers in Hong Kong, Macau, Taiwan, and overseas regions, please send email to sales01@skydroid.xin. The specific after-sales details will be determined based on the actual situation.

## Disclaimer

The content mentioned herein concerns your safety, as well as your legal rights and responsibilities. Please read this document carefully before using the product to ensure proper setup. Failure to follow the instructions and warnings in this document may result in injuring to you or others, damaging to the product, or harming to other surrounding objects. The interpretation of this document and all related documents is reserved by Skydroid. Any updates are subject to change without prior notice. Please visit the official website at <https://skydroidglobal.com> for the latest product information.

The C01 PRO has been calibrated before shipment according to the camera and lens it is equipped with. DO NOT disassemble the camera or alter its mechanical structure by yourself, as this may cause abnormal operation or performance degradation of the camera.

For your safety and the safety of others, please ensure that the drone is in a safe condition during gimbal debugging. DO NOT power on the device in flammable, explosive, or child-friendly environments. It is strongly recommended to remove the propellers from the drone before debugging.

- A) Ambient temperature:  $-10^{\circ}\text{C} \sim 60^{\circ}\text{C}$
- B) Storage temperature:  $-25^{\circ}\text{C} \sim 60^{\circ}\text{C}$
- C) Atmospheric pressure:  $86\text{kPa} \sim 106\text{kPa}$
- D) The usage location shall not have explosive hazardous media, and the surrounding media should not contain gases that corrode metals and damage insulation, nor should it be filled with water vapor or have severe mold growth.
- E) The usage location should have facilities to prevent rain, snow, wind, sand, and dust.

As our company cannot control the user's specific usage, installation, modification, or improper operation, we shall not be liable for any direct or indirect losses or damages caused by the above circumstances. If you use, install, or assemble Skydroid products, the corresponding consequences shall be borne by the user. Our company shall not be responsible for any indirect or direct losses or injuries caused by the use of this product.

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### I、Product Brief-Introduction

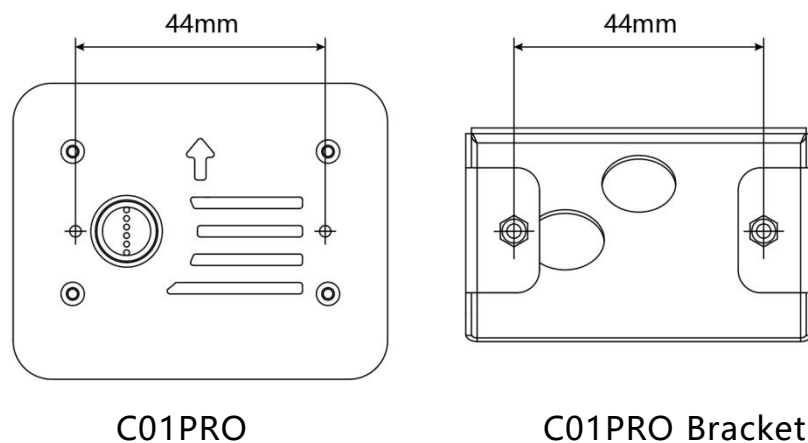
Engineered specifically for mobile devices where mechanical gimbals cannot be installed—such as drones, unmanned ground vehicles (UGVs), and unmanned surface vessels (USVs)—the C01 PRO features an ultra-wide-angle fisheye lens design. Equipped with a 1/2.53-inch sensor and 5-megapixel high-definition resolution, it delivers smooth, clear 720P/30fps video quality. The wide-angle field of view covers the entire operational scenario, while the high-definition resolution captures every detail, providing the pilot with comprehensive visibility of every corner of the field and the surrounding environment during operation, thereby reinforcing operational safety from a visual perspective.

Lightweight design is another significant advantage of the C01 PRO. Weighing only 60 grams, and just 72 grams with the bracket, it substantially reduces the payload burden on the carrying device. This indirectly enhances battery life and operational maneuverability, providing reliable support for extended outdoor operations.

Considering the complex conditions frequently encountered in agricultural scenarios—such as frequent pesticide spraying and dust intrusion—the C01 PRO is rigorously designed and third-party certified to the IP65 ingress protection rating. It effectively withstands high-pressure liquid spray and dust ingress, ensuring stable operation under harsh conditions and significantly improving durability and reliability. (Note: The splash, water, and dust resistance are not permanently effective and may diminish due to normal wear over time. Damage resulting from liquid immersion is not covered under the warranty.)

## II、Installation&Usage

C01 PRO Electronic Gimbal and C01 PRO Bracket Screw Hole Positions and Spacing Diagram (See Figure Below)



Recommended Installation Screws:

For securing the C01 PRO: HM2\*8 machanical screws (Quantity: 2)

For securing the C01 PRO bracket: PM2.5\*3 screws (Quantity: 2)

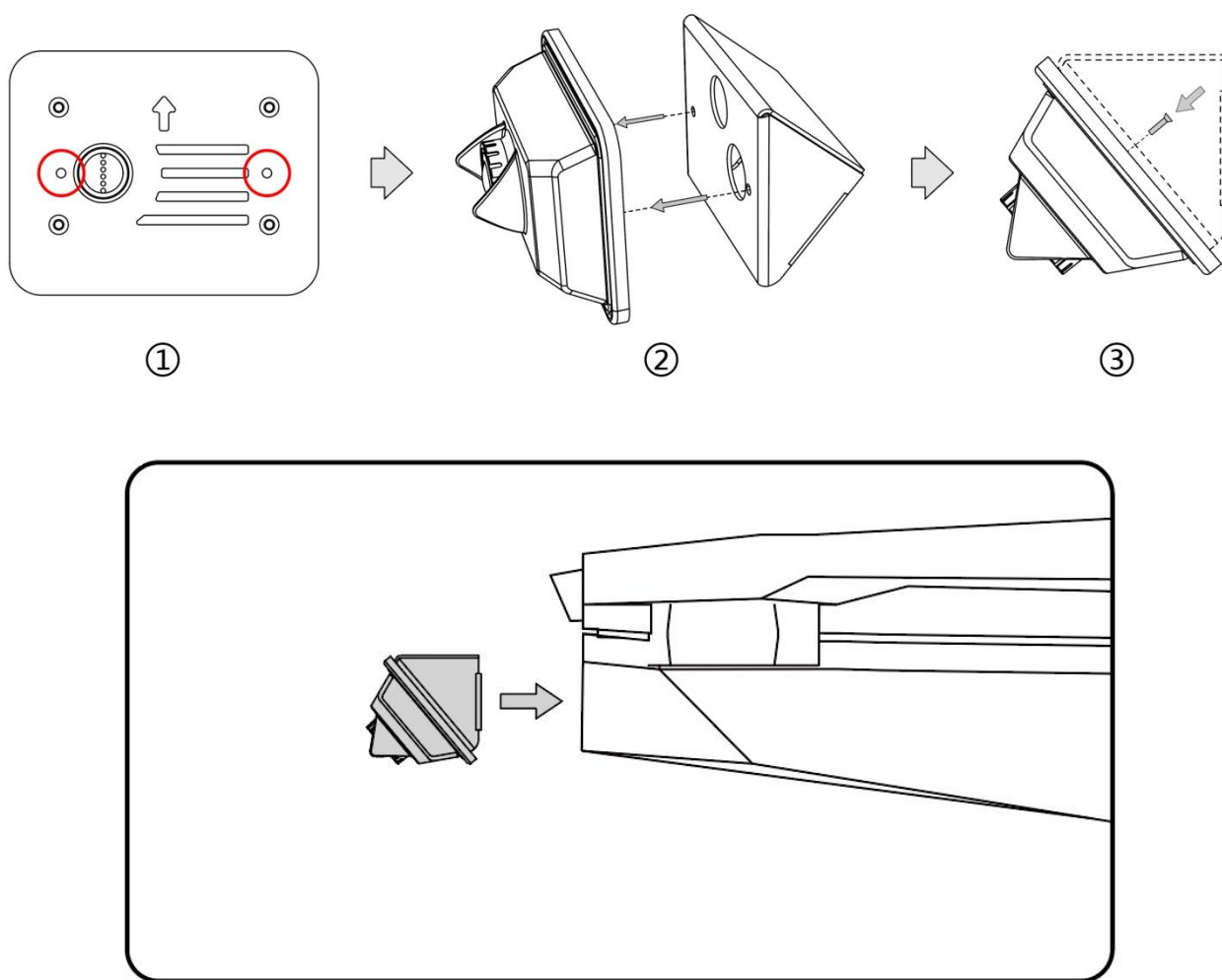
## Installation Method 1:

### With Bracket Installation

Ensure the arrow on the back of the C01 PRO lens is pointing upward.

Secure it to the included 40° bracket using the specified screws, as shown in the figure below

**Note:** During installation, ensure a rigid connection with the carrier to guarantee a stable and reliable structure.

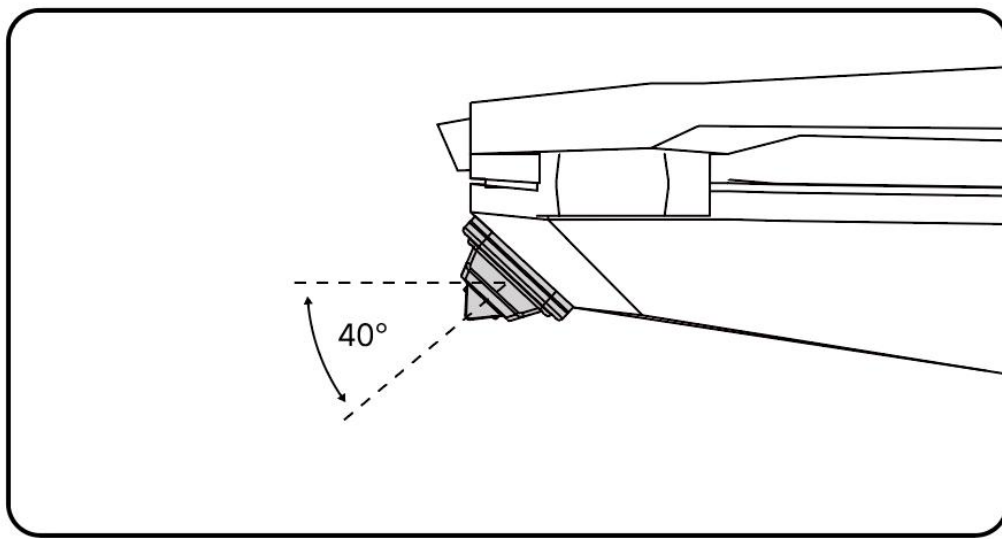


## Installation Method 2:

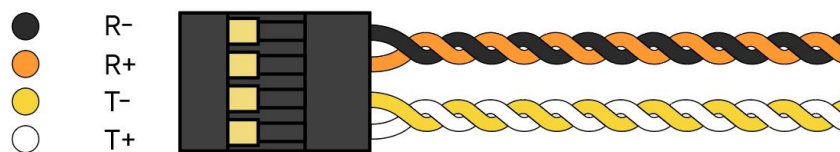
### Without Bracket Installation

If the mounting position on the carrier satisfies the 40° installation requirement, the 40° bracket can be omitted. Ensure the arrow on the back of the C01 PRO lens is pointing upward, and secure it directly to the carrier to achieve stable image transmission with your drone.

**Note:** During installation, ensure a rigid connection with the carrier to guarantee a stable and reliable structure.



## III、Interface Definition Explanations



## IV、Parameters

| C01 PRO Parameters            |                                     |
|-------------------------------|-------------------------------------|
| Video Output Interface        | LAN Port                            |
| Input Power Supply            | 7.2V~80V                            |
| Operation Current             | 100mA/12V                           |
| Working temperature           | -10℃~60℃                            |
| Weight                        | 60g                                 |
| Bracket weight                | 12g                                 |
| IP rate                       | IP65                                |
| C01 PRO Dimension             | 66mm×52mm×31.9mm                    |
| Bracket dimension             | 61mm×46.7mm×26.5mm                  |
| Controllable Tilt Angle       | -90°~0°                             |
| Pixel                         | 5MP                                 |
| Sensor dimension              | 1/2.53 inches                       |
| Aperture                      | F2.2                                |
| Focal length                  | 2.20mm                              |
| HFOV/ VFOV/DFOV               | 154.4°/ 111.8°/204°                 |
| Output method                 | RTSP Stream H265                    |
| Image-transmission resolution | 720P (1280*720) @30fps              |
| Stabilization method          | EIS Stabilization                   |
| Video stream address          | rtsp://192.168.144.108:554/stream=0 |

## V、The Usage of C01 PRO Electronic Gimbal

Install the latest gimbal FPV APP and open it via the remote controller.



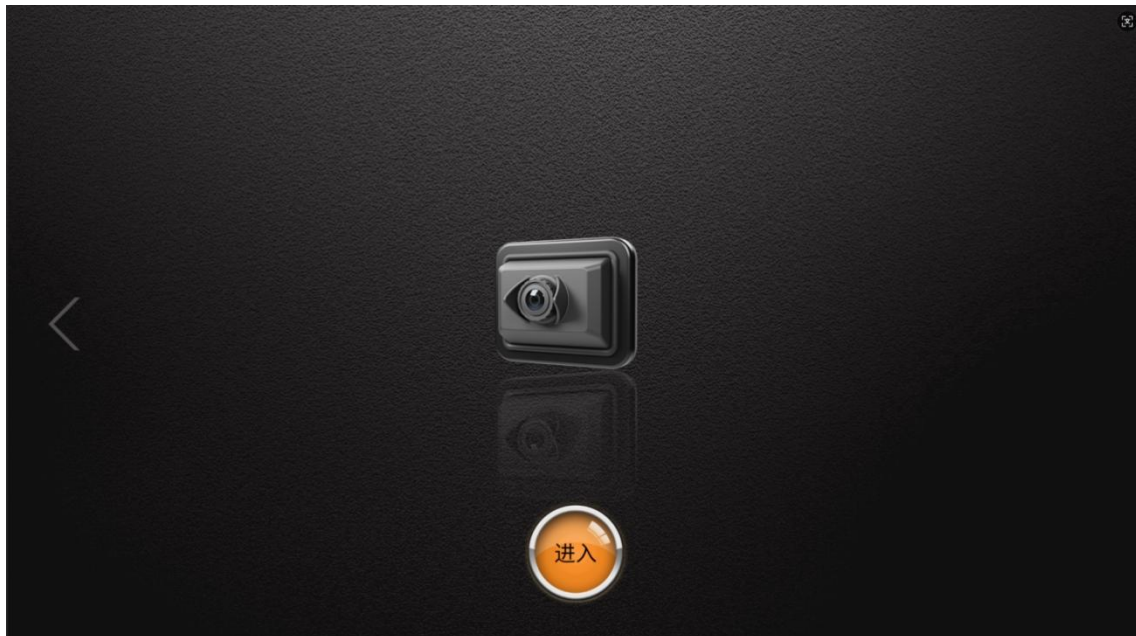
APP Address: <https://file.skydroid.xin/SkydroidCameraFPV.apk>

### 1. Gimbal Startup

Note: When powering on the C01 PRO, the gyroscope calibration will be automatically performed. Please keep the gimbal at the stationary state.

### 2. Open the Gimbal FPV

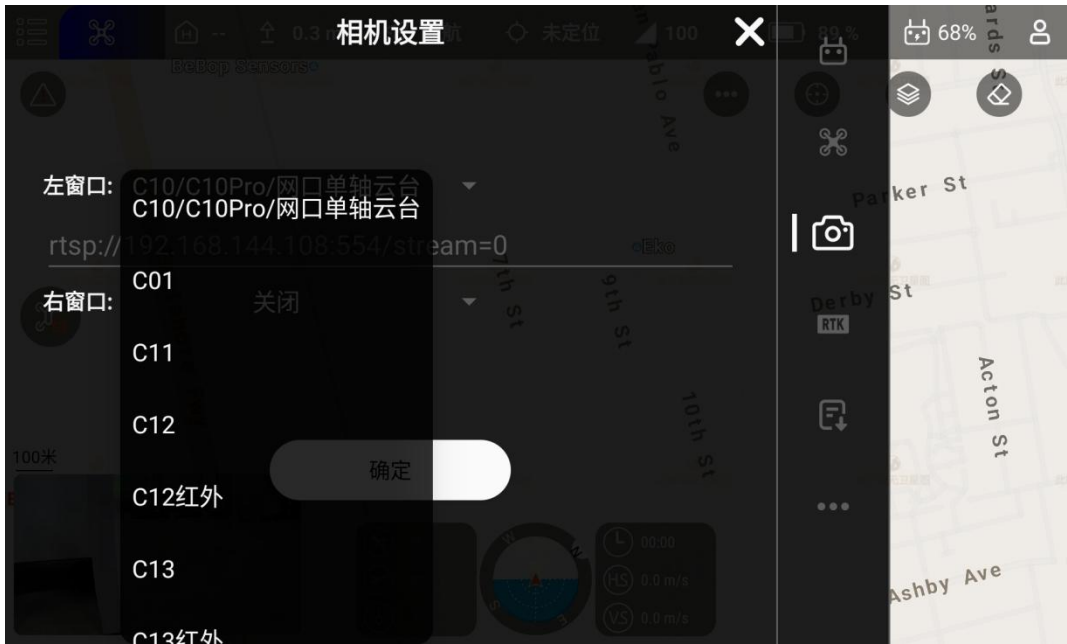
Choose C01 icon and click in



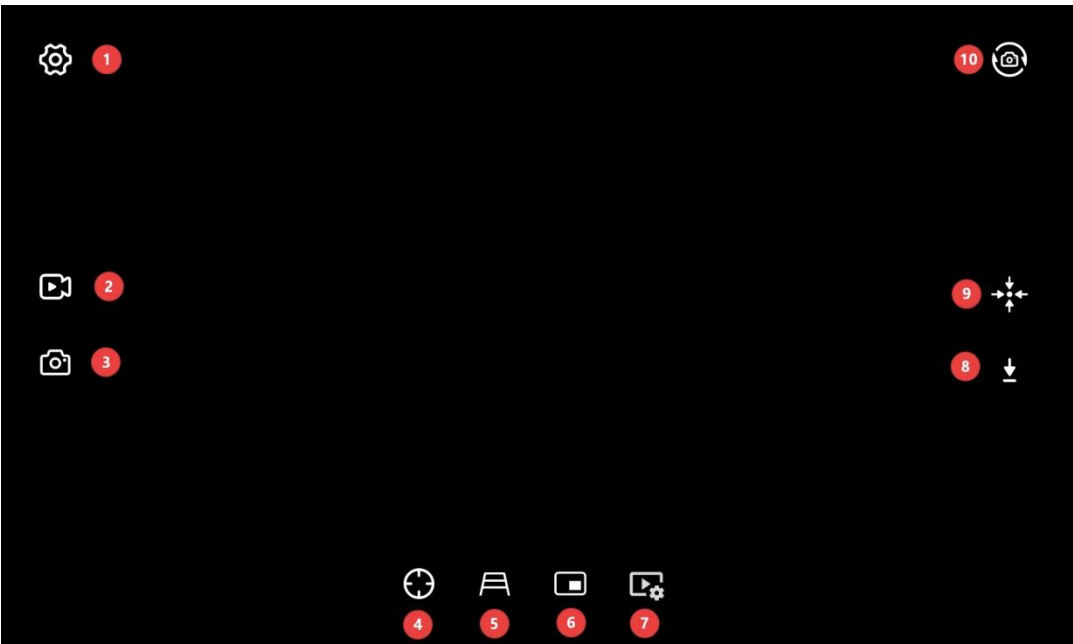
If using FLY GCS, then you can see the video via following settings:

APP Address <https://file.skydroid.xin/SkydroidFly.apk>

FLY APPHomepage top left corner  ->  -> C01



### 3. Gimbal FPV Homepage Introduction



| NO. | Annotation      | NO. | Annotation        |
|-----|-----------------|-----|-------------------|
| 1   | System settings | 6   | Floating window   |
| 2   | Recording       | 7   | Parameter setting |
| 3   | Photographing   | 8   | One-key tilt down |
| 4   | Crosshair       | 9   | Return to center  |
| 5   | Reverse line    | 10  | camera switch     |

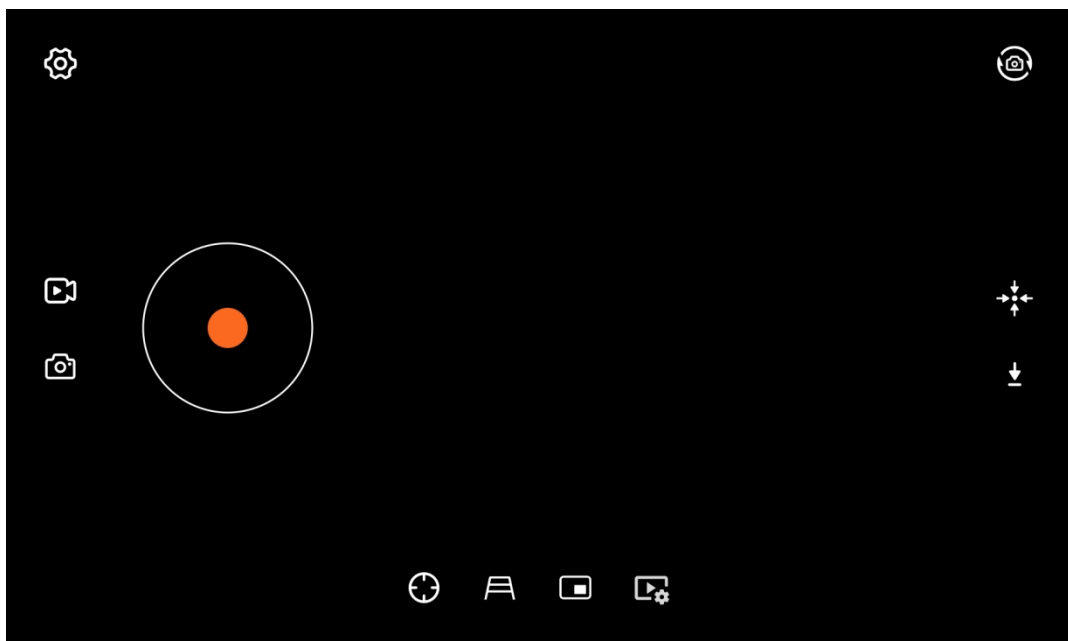
#### 4. Gimbal Control

Navigate to: Parameter Settings  -> Gimbal Control. Three control modes are available and can be enabled simultaneously by checking the corresponding boxes.



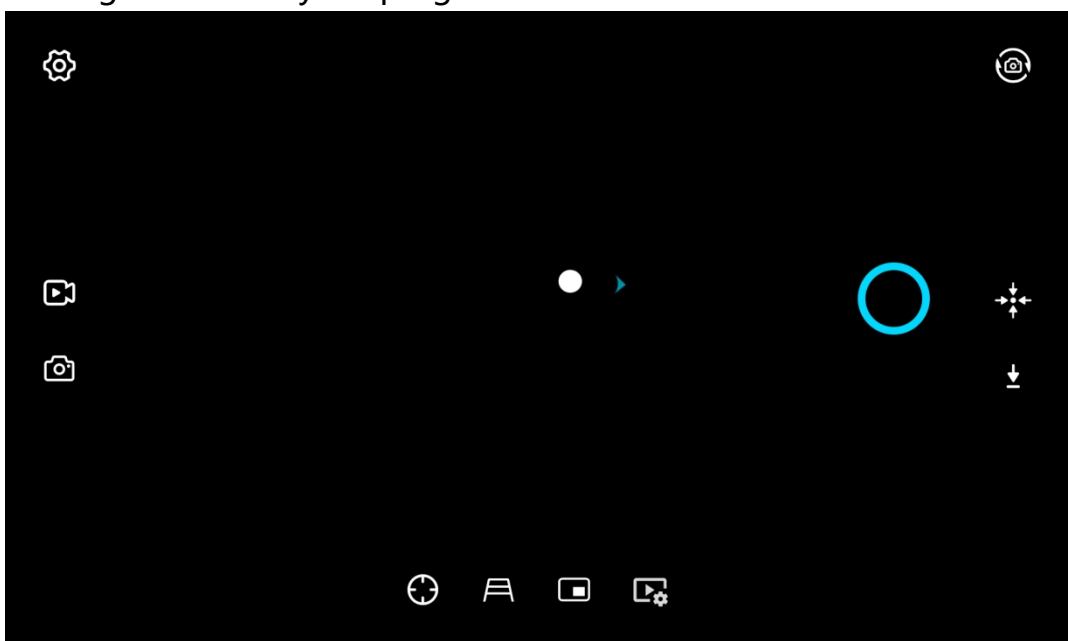
##### (1) Using Virtual Joystick Control:

Control the gimbal tilt via the on-screen virtual joystick. Features such as one-key return to center are also supported.



(2) Using Gesture Control:

Control the gimbal tilt by swiping on the screen.



(3) Using Remote Controller Channel Control:

Control the gimbal tilt via Channel 12<sup>th</sup> of the remote controller.

**Note:** The remote controller channel can be checked and verified via Device Assistant -> Servo Monitor.

## 5. IP Settings

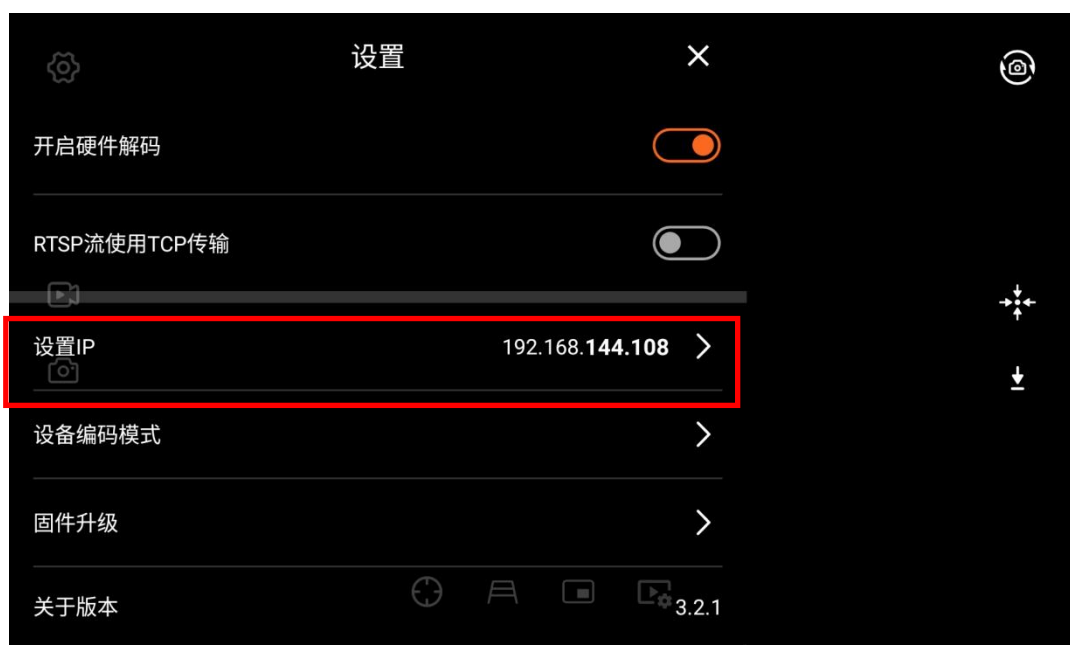
The IP address and gateway of the C01 PRO camera can be modified when needed.

**Note:** After modification, the corresponding video stream address shall be updated accordingly to ensure normal video feed retrieval. The function setting password is 999999.

Example:

If the device IP address is changed to 192.168.144.107, the corresponding video stream address should be adjusted to:

rtsp://192.168.144.107:554/stream=0 。





## 6. Firmware Update

Before upgrading the firmware, please ensure that the remote controller is connected to the internet. Once connected, click “Firmware Update” and select from the following update options.



### 6.1 MCU Firmware Upgrade

#### (1) Online Update

Click "Check for Updates" to view the current MCU firmware version and the latest available version online.

To upgrade, click "Update Now" to begin the online upgrade process. The entire upgrade process takes approximately 1 minute.



## (2) Local Firmware Update

Click the "Local Firmware" option on the page and select the corresponding local file to upgrade.



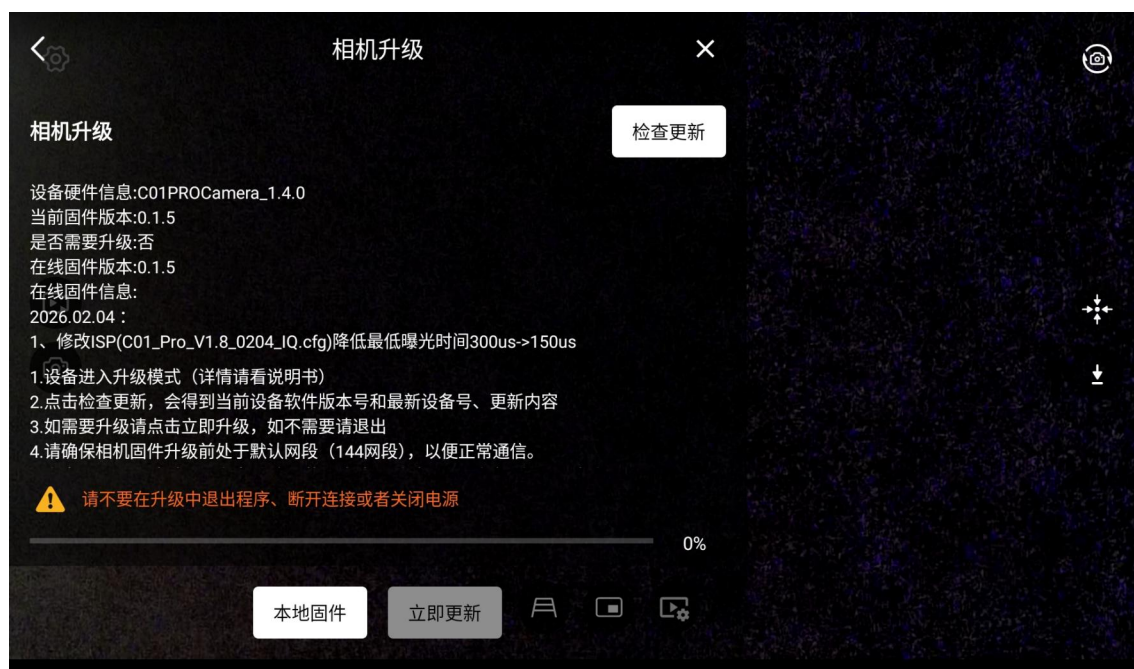
## 6.2 Camera Firmware Upgrade

### (1) Online Upgrade

Click "Check for Updates" to view the current camera firmware version and the latest available version online.

To upgrade, click "Update Now" to begin the online upgrade process. The

entire upgrade process takes approximately 2 minutes.



## (2) Local Firmware Update

Click the "Local Firmware" option on the page and select the corresponding local file to upgrade.



## VI、 After-Sale Address and Technical Support

After-sales or Returns&Exchanges Address: 1st Floor, Building E, Yucheng Base, Fengze Science and Technology Road, Quanzhou City, Fujian Province, China  
Recipient: After-sales repair, Mobile: +86 18876386351

### After-sales service:

When returning the product for repair, please include a note with the following information(contact information, return shipping address, reason for return etc); otherwise, the return will not be processed

### Returns&Exchanges:

When returning the product for a refund or exchange, please include a note with the following information(contact information, reason for return). Also, keep the shipping receipt and the original packaging. Any losses resulting from failure to provide a clear reason for the return will be borne by the party returning the item. We will not accept returned items that are not properly explained.

This manual may not be the latest version. For the latest version, please visit our official website at Downloads Center -> Documents.  
<https://skydroidglobal.com>