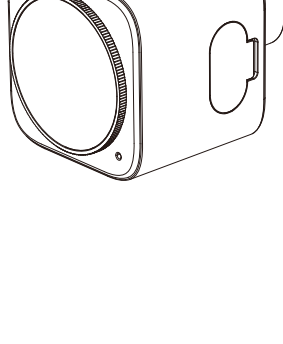


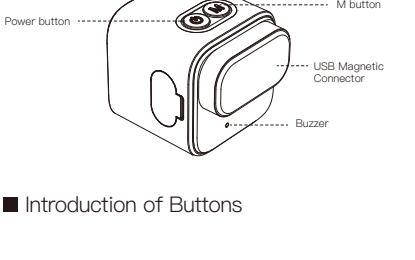
WALNUT CAMERA

QUICKSTART GUIDE

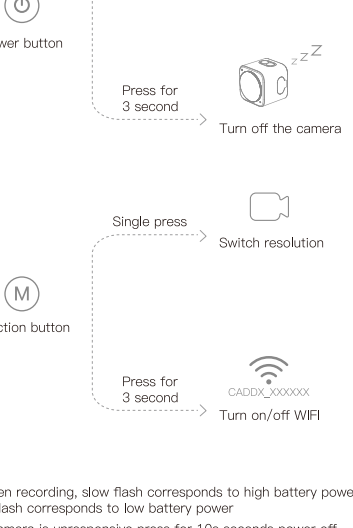


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Introduction of product

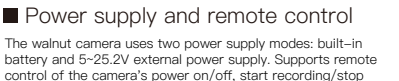


Introduction of Buttons



* When recording, slow flash corresponds to high battery power, and flash corresponds to low battery power
* If camera is unresponsive press for 10s seconds power off

Wiring



*The KEY signal line can remotely control the camera through the flight control, please read the relevant precautions

Power supply and remote control

The walnut camera uses two power supply modes: built-in battery and 5-25.2V external power supply. Supports remote control of the camera's power on/off, start recording/stop recording. Take the commonly used flight controller Betaflight F405 as an example to illustrate how to configure the remote control to turn on/off the recording function. The wiring diagram is shown in the figure below, and the TX1 pin on the flight controller is used to control the recording on/off.

Enter the following blue fonts to configure the PINIO function of the TX1 pin.

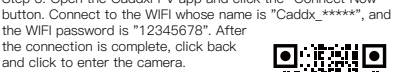
```
resource SERIAL_TX 1 NONE //Disable the serial port function of the TX1 pin
```

```
resource PINIO 1 A09 //Configure the TX1 pin (The example is A09 pin, different flight control pins are different, please fill in according to the actual) as PINIO function No. 1
```

```
set pinio_box = 40,255,255,255 //Set the PINIO function range
```

```
save //save configuration
```

Next, configure the PINIO function mapping between the remote controller and flight controller. In Betaflight Configuration, map the No. 1 PINIO function (ie USER1 in the figure below) to the AUX channel of the remote control



The trigger mode is a low level trigger, the cursor from the yellow area to the white area and then to the yellow area is a trigger, the camera performs recording or stops recording.

USB Magnetic Connector

The USB connector can be connected by attaching it to the back cover of the walnut body. Pay attention to avoid sundries on the surface of the magnet that will affect the contact effect.

Data transmission

Method 1: Directly insert the memory card into the card reader to read data

Method 2: Insert the Type-C cable into the USB port on the side of the walnut to read the camera data

Method 3: Connect the Type-C cable into the USB magnetic connector to read the camera data

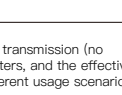
APP download

Step 1: Scan the QR code below with your mobile phone or go to the APP Store to search for "CaddxFPV" to download and install the CaddxFPV app.

Step 2: Turn on the phone WIFI. Short press the camera power button to turn on the camera and wait for the camera buzzer to sound, then long press the M button to turn on the camera WIFI.

Step 3: Open the CaddxFPV app and click the "Connect Now" button. Connect to the WIFI whose name is "Caddx_*****", and the WIFI password is "12345678". After the connection is complete, click back and click to enter the camera.

Step 4: Click the gear in the lower right corner of the app to set the camera parameters.



APP view content

After shooting, connect to the app, enter the app album page, and view the shooting content. You can also take photos and videos directly through the app.

Mounting case

The camera mounting adapter can prevent the camera from being damaged from falling, and you need to choose a suitable base for installation when using it.

Precautions

Regarding the use of accessories, please note:
1: The product or accessories contain small objects, be careful to prevent children from swallowing.
2: All accessories are not recommended to be used during high-intensity exercise, otherwise the camera or accessories may fall off.
3: Keep the magnetic surface clean to prevent poor connection.

Regarding firmware upgrade, please note:
1. For the first time to use, please upgrade the firmware first
2. Before upgrading, please ensure that the camera is fully charged
3. Card swipe upgrade steps

- (1) First delete the old firmware in the tf card (if any)
- (2) Import the latest firmware into the tf card
- (3) Insert the TF card into the camera TF card slot
- (4) Short press the power button to turn on
- (5) The blue light of the camera flashes quickly and enters the firmware flashing state
- (6) When the indicator light turns green, the firmware flashing is completed.

Indicator status

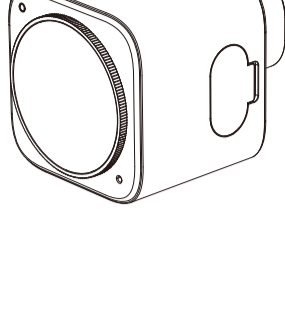
Camera status	Indicator status
Camera is power on	Steady green light(the default is green light, the color of the light is different in different modes)
The camera is flashing the firmware	Blue light flashes quickly
camera is charging	Steady red light
4K recording mode	Steady green light
2.7k recording mode	Steady blue light
1440P recording mode	Steady Cyan light
1080P recording mode	Steady Cyan light
Charging while recording	Steady red light, Indicator light flashes slowly

Battery indicator	Indicator status
	When the battery is above 70%, the flashing frequency of the light is once every 2s in the recording state
	When the battery is 20-70%, the flashing frequency of the light is once every 1s in the recording state
	When the battery is below 20%, the flashing frequency of the light is once every 0.5s in the recording state

*The effective distance of the camera WIFI transmission (no interference and no obstruction) is 10 meters, and the effective transmission distance will vary due to different usage scenarios.

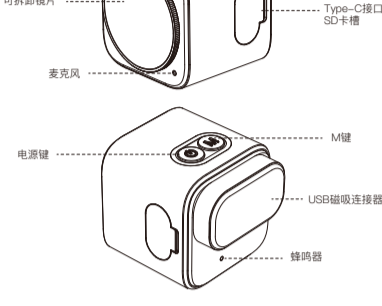
WALNUT CAMERA

快速入门指南

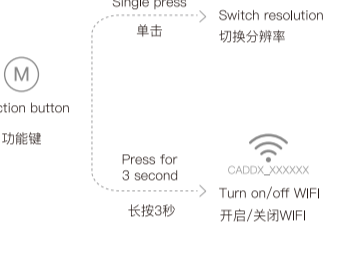


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产品介绍



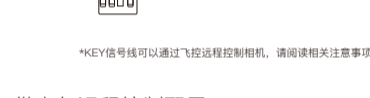
按键基本操作



*录制时指示灯慢闪对应电池高电量，快闪对应电池低电量

*如相机无反应可长按电源键10秒强制关机

接线



*KEY信号线可以通过飞控远程控制相机，请阅读相关注意事项

供电与远程控制配置

核桃相机使用内置电池与5~25.2V外置电源两种供电方式，支持通过遥控器远程控制相机开机/关机、开始录像/停止录像。以常用的穿越机Betaflight F405飞控为例，说明如何配置远程控制开启/关闭录像功能。接线图如下图所示，使用飞控上的TX1引脚来控制开启/关闭录像。

通过下面Betaflight CLI命令行，输入以下蓝色字体，配置TX1引脚的PINIO功能。

```
resource SERIAL_TX 1 NONE //关闭TX1引脚的串口功能
resource PINIO 1 A09 //将TX1引脚（示例为A09引脚，不同飞控引脚不同请按实际填写）配置为1号PINIO功能
set pinio_box = 40,255,255,255 //设置PINIO功能区间
save //保存配置
```

下面配置遥控器和飞控的PINIO功能映射关系。在Betaflight 地面站中，将1号PINIO功能（即下图中的USER1）对应到遥控器的AUX通道。



该触发模式为低电平触发，光标从黄区域到白区域再到黄区域为一次触发，相机执行录制或停止录制。

磁吸座连接

将USB连接器吸附在核桃机身后背即可连接，避免杂物在磁铁表面上影响接触效果，电源连接座不适合安装在剧烈动作和振动严重的无人机，否则连接座脱落发生意外。

数据传输

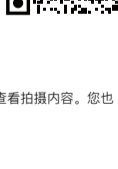
- 方式一：直接将内存卡插入读卡器中读取数据
- 方式二：将Type-C线插入相机侧面的USB口读取相机数据
- 方式三：将Type-C线插入USB连接器中读取相机数据

APP下载

步骤1：手机扫描右侧二维码或前往APP Store搜索“CaddxFPV”下载并安装CaddxFPV app。

步骤2：打开手机WIFI。短按相机电源键使相机开机等待相机蜂鸣器发出声音以后，长按M键打开相机WIFI。

步骤3：打开CaddxFPV app点击“立即连接”按钮。连接名称为“Caddx_*****”的WIFI，WIFI的密码为“12345678”连接完成后点击返回并点击进入相机。



步骤4：点击app右下角的齿轮即可对相机的参数进行设置。

APP查看内容

完成拍摄后连接app，进入app相册页，点击查看拍摄内容。您也可以通过app直接进行拍照、录像等操作。

配件使用方式

相机安装适配器可以防止相机跌落损坏，使用时需要自行选择适配的底座进行安装。

注意事项

- 关于配件使用，请注意：
- 1：产品或配件内含细小物件，慎防小孩吞咽。
 - 2：所有配件不建议在高强度运动时使用，否则相机或配件有脱落风险。
 - 3：保持磁吸表面干净，防止连接接触不良。
- 关于固件升级，请注意：
- 1：初次使用，请优先升级固件
 - 2：升级前，请确保相机电量充足
 - 3：卡刷升级步骤

- (1)首先删除tf卡内的旧固件（如有）
- (2)将最新的固件导入tf卡内
- (3)将tf卡插入相机tf卡槽
- (4)短按电源键开机
- (5)相机蓝灯快闪进入固件刷写状态
- (6)当指示灯变为绿色时，固件刷写完成。

指示灯状态

相机状态	相机指示灯状态
相机开机中	绿灯常亮(默认是绿灯，其他模式下指示灯的颜色不同)
相机刷写固件中	蓝灯快闪
相机充电中	红灯常亮
4K录制模式	绿灯常亮
2.7K录制模式	蓝灯常亮
1440P录制模式	青灯常亮
1080P录制模式	青灯常亮
录制中同时充电	红灯常亮，模式指示灯闪烁
电量指示	电量为70%以上时，在录制状态下灯的闪烁频率为每2s闪烁一次
	电量为20~70%时，在录制状态下灯的闪烁频率为每1s闪烁一次
	电量为20%以下时，在录制状态下灯的闪烁频率为每0.5s闪烁一次

*相机WIFI传输有效距离（无干扰无阻碍）为10米，有效传输距离会因使用场景不同而有所差异。