

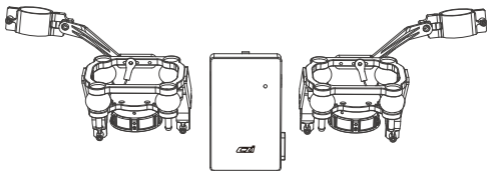
FS32

喊话照明负载套装

2024.12 (V2.0)

用户手册

User Manual



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一、免责声明与警告

1. 感谢您购买成至智能产品。本文所提及的内容关系到您的安全以及合法权益与责任。使用本产品之前, 请仔细阅读本文以确保已对产品进行正确的设置。不遵循本文的说明与警告进行操作可能会给您和他人造成伤害。本文档及所有相关的文档最终解释权归成至智能所有。如有更新, 恕不另行通知。请访问www.czi.com.cn官方网站获取最新的产品信息。
2. 请根据说明书安装教程正确安装FS32。

二、FS32介绍

产品与大疆FC30运输机搭配使用实现 MP130C、TH4C、GL60C Plus 的机载适配, 为飞机同时提供喊话/应急照明等功能。

使用场景:

1. 产品搭配 GL60C Plus 可适用于多种应急抢修抢险场景下的照明应用, 可满足全天长时间作业需求。
2. 产品搭配 MP130C 可适用于多种应急抢修抢险场景下的喊话应用, 可满足全天长时间作业需求。
3. 产品搭配 TH4C 可适用于多种应急抢修抢险场景下的抛投应用, 最大抛投重量 2.5Kg 可满足全天长时间作业需求。
4. 任何适用于 FC30 运输机的其他使用场景需求。

安装方式:

产品使用快拆设计, 可快速安装于FC30运输机上。

三、FS32参数

FS32规格参数

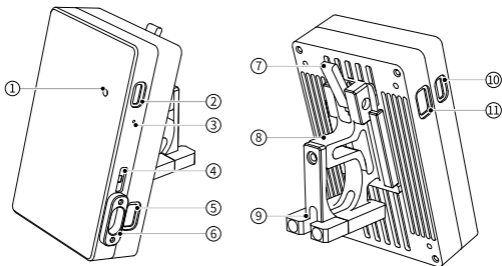
外形尺寸 /mm (控制盒)	L:70 x W:30 x H:106
外形尺寸/mm (支架)	L:160 x W:130 x H:135
材质	PC + 铝合金
安装方式	快拆
总重量 / g	≤635
控制	PSDK
额定输入电压 / V	60V
总功率 / W	400 ± 10%
XT30端输出功率 / W	≤300
工作环境	温度:-20°C ~+50°C 湿度:15% ~ 95%
储存环境	温度:-40°C ~+85°C 湿度:15% ~ 95%
使用寿命	≤三年
包装	转运箱 + EVA内衬

FS32控制盒参数

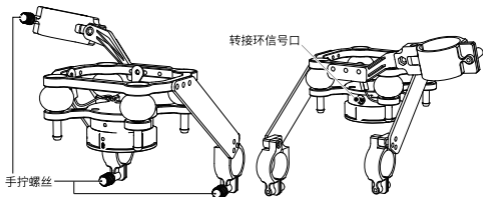
额定输入电压 / V	52.22V-59.92V
总功率 / W	≤400W
XT30输出端额定电压 / V	24V
XT30输出端最大功率 / W	≤300W
Type-C输出端额定电压 / V	17V
Type-C输出端额定功率 / W	70W

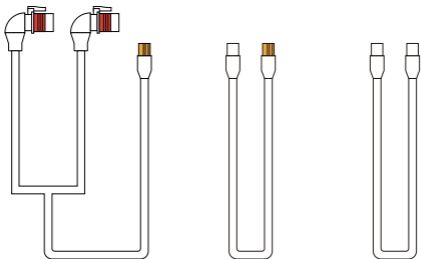
四、安装方式

1. 控制盒、支架、线材介绍



- | | | | |
|---------|---------|---------|-----------|
| ① 指示灯 | ② P1输出口 | ③ 复位开关孔 | ④ 切换OTG开关 |
| ⑤ 电源输入口 | ⑥ PSDK口 | ⑦ 弹簧开关 | ⑧ 快拆支架1 |
| ⑨ 快拆支架2 | ⑩ P2输出口 | ⑪ P3输出口 | |





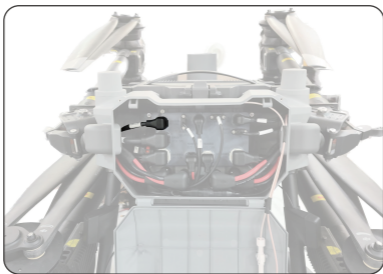
空吊供电线X1

24V供电线X1

TypeC信号线 X2

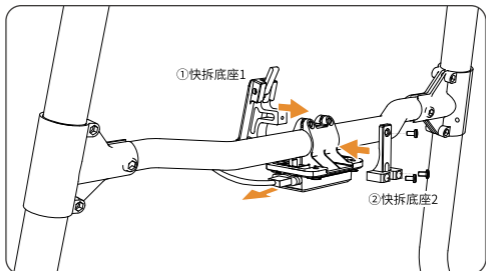
2.空吊供电线安装

注意：使用FS32前请将提供的空吊供电线对下图所示位置的物流机空吊供电线进行更换。

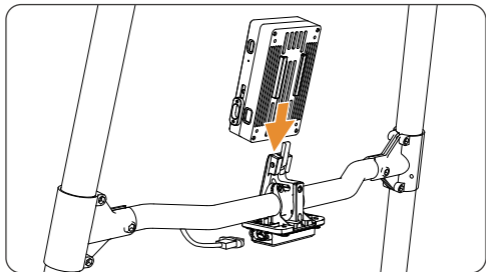


3.控制盒安装方式

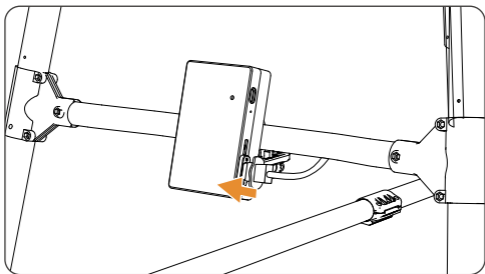
- 3.1 将①穿过4G模块与横向脚架之间的双中孔并且置平，并将②与①组合并用螺丝锁定至底座不晃动，同时需要取下物流机4G模块的数据线。



- 3.2 按压快拆开关使其弹簧紧缩，对准斜槽，将控制盒由上至下沿斜槽滑落安装至无法移动。

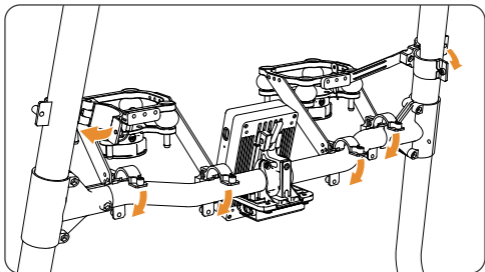


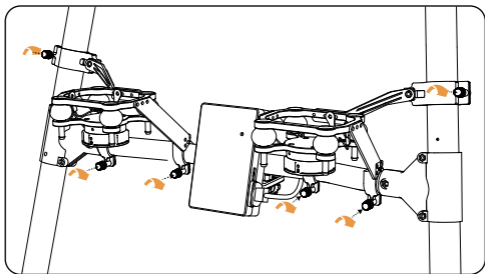
3.3 将取下的物流机4G模块数据线连接至FS32控制盒的PSDK口。



4. 支架安装方式

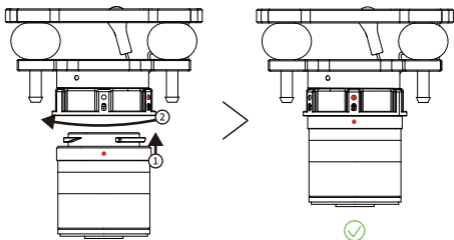
调整侧夹与横夹位置,使其能完整附着于飞机侧夹与横夹脚架上且不易晃动后,锁紧侧夹与横夹上的手拧螺丝,观察支架体态,保证其转接环在垂直方向上。



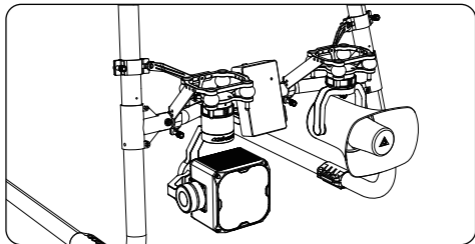


5. 负载安装

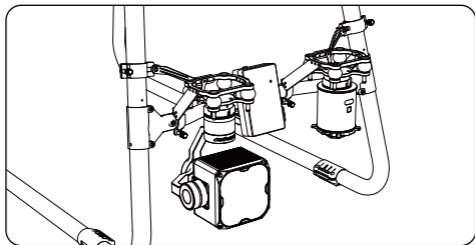
将负载产品上的红点与云台的白点对齐后，旋转云台接口至红色点，使云台红点与负载产品上的红点对齐。



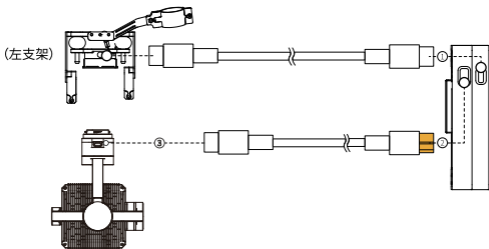
完成GL60C Plus、MP130C负载安装



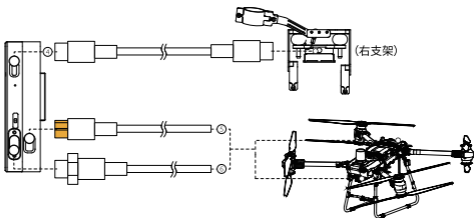
完成GL60C Plus、TH4C负载安装



6. 控制盒连接方式



- ①使用TypeC信号线连接控制盒的P2输出口以及物流支架(左)
- ②使用24V供电线连接控制盒的P3输出口
- ③使用24V供电线连接 GL60C Plus



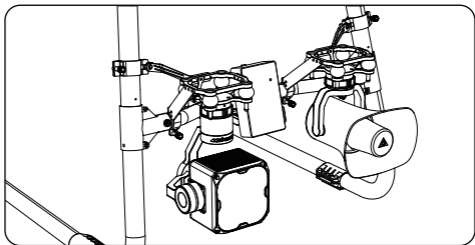
- ④使用TypeC信号线连接控制盒的P1输出口以及物流支架(右)
- ⑤使用空吊供电线连接控制盒的电源输入口
- ⑥使用FC30上的4G模块数据线连接控制盒的PSDK口

指示灯状态显示

闪灯方式	描述
 黄灯常亮	供电正常,但PSDK未成功初始化
 黄灯熄灭	PSDK初始化成功
 绿灯常亮	两侧负载均已连接
 绿灯慢闪	喊话器或抛投器未连接,约2s闪一次
 绿灯快闪	云台灯未连接,约0.5s闪一次
 绿灯熄灭	代表两侧负载均未连接
 黄灯50ms	升级过程
 黄绿灯交替闪烁	恢复出厂设置

五、DJI Pilot 2使用说明

首先,如果左边负载连接为云台灯,右边负载连接为喊话器,控件使用说明参考如下所示:



1. PSDK外部设置菜单,点击展开如下图所示,图中每个序号对应的功能解释见对应数字序号。



2. 悬浮窗

点击显示如下图左侧悬浮窗，悬浮窗可显示当前已连接负载信息

- ① 只连接喊话器，悬浮窗会显示当前音频、媒体状态、音量、MP130C已连接、温度；
- ② 只连接云台灯，悬浮窗会显示云台灯亮度、云台灯状态、GL60C Plus已连接、温度；
- ③ 只连接抛投器，悬浮窗会显示抛投器锁状态，抛投器当前抛投位置、TH4C已连接、温度；
- ④ 左右两侧负载都连接，悬浮窗会显示连接的两个负载的信息；
- ⑤ 左右两侧负载都未连接，悬浮窗显示负载均未连接；



3. 录音功能

- ① 录音喊话: 点击录音喊话按键, 选【点击说话】, 此时会开始录制声音, 点击结束录制, 会生成音频文件, 再点击喊话按键, 可以听见刚才录制的声音通过喊话器播放。
- ② 实时喊话: 点击功能切换 (见六-9), 把喊话器功能切换到实时喊话, 点击说话, 在说话的同时喊话器就会播报说话的内容。



4. 文本转语音播报

输入文字, 点击广播按钮, 即可将文本转成语音进行播放, 在内置PSDK界面(六-10)还可以选择语音的方言和语速。

此界面还可以调节音量、循环播放、播放开始/暂停。



5. 云台灯控制开关

点击展开云台灯控制按钮列表，一共有开灯、关灯、爆闪三个选项，点击即可触发对应云台灯状态。



6. 云台灯特定角度控制

如图可实现特定的云台灯角度控制:云台灯左转90度、云台灯右转90度、云台灯角度转向正下方、云台灯角度回到中心。



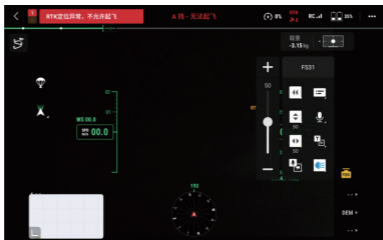
7. 云台灯俯仰角度调节

如图所示此按钮点击后会展开滑条，滑条初始位置为中心50，代表含义云台灯位置是垂直居中，向上滑动一定数值，云台灯角度向上转动，向下滑动则云台灯角度向下转动。



8. 云台灯偏航角度调节

如图所示此按钮点击后会展开滑条，滑条初始位置为中心50，代表含义云台灯位置是水平居中，向下滑动一定数值，云台灯角度向左转动，向上滑动则云台灯角度向右转动。



9. 实时喊话与录音喊话切换

开机默认是录音喊话，点击实时喊话切换到实时喊话状态，此时再点击喊话器录音功能，会变成实时喊话，此功能应配合录音功能使用(六-3)。

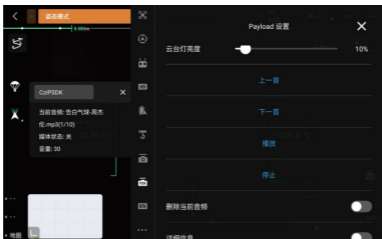
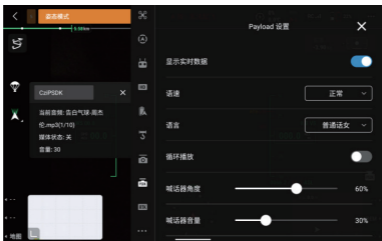


10. PSDK内置菜单

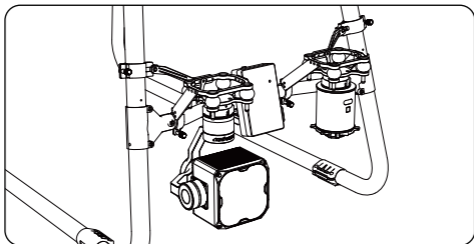
点击后显示如下图，

- 显示实时数据开关: 点击打开后, 显示信息悬浮窗, 点击关闭后, 悬浮窗消失。
- 语速: 一共包含5个语速可选择: 很慢、慢、正常、快、很快。
- 语言: 当前支持多种方言: 普通话女、普通话男、河南话、陕西话、四川话、广东话、湖南话、东北话、标准英语。
- 循环播放: 点击打开循环播放, 此时【音频播放】和【文本转语音】会变成循环播放模式, 录音功能不支持循环播放。
- 喊话器角度: 初始值设定为60, 滑动滑条后, 喊话器的俯仰角度(0~90°)会根据滑条百分比(0~90%)改变, 滑条百分比大于90%默认等于90%。
- 喊话器音量: 初始值设定为30, 可以通过滑条改变音量。

- 云台灯亮度:初始值设定为10,代表云台灯亮度等级。
- 音频切换及播放按钮:上一首、下一首、播放、停止,先打开悬浮窗,能看见当前音频名称,点击下一首切换音频,点击播放即可播放音频,点击停止会停止播放,下一次点播放将从头开始。
- 删除当前音频:点击后将悬浮窗当前显示的音频文件删除,删除后无法复原,需重新将音频导入SD卡(谨慎点击)。
- 详细信息:点击后悬浮窗显示当前连接负载的sn号以及固件版本号。



若连接云台灯, 抛投器, PSDK控件如下所示:



① PSDK外部设置菜单: 点击展开如下图所示, 图中每个序号对应的功能解释见对应数字序号。

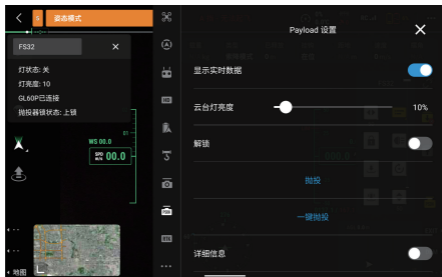


数字②③④⑤⑥功能含义同上。

⑦ 抛投器解锁: 界面如下图所示, 抛投器若处于上锁状态, 抛投按钮无法使用, 可以点击解锁进行抛投, 也可点击上锁按钮, 防止误触。



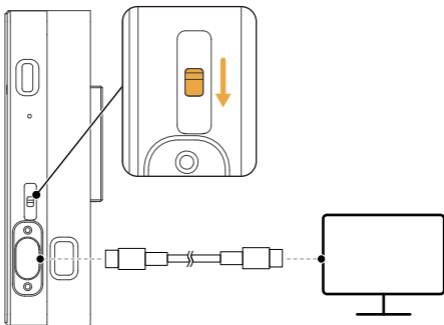
- ⑧ 抛投: 需要先解锁才能使用, 点击一次会进行一次抛投, 可以多次点击直到所有挂钩全部松开, 此时抛投器需要手动复位才能重新使用。
- ⑨ 一键全抛: 按下后, 若抛投器处于解锁状态, 抛投器所有挂钩都将释放。
- ⑩ PSDK内置菜单:



- 云台灯亮度:初始值设定为10,代表云台灯亮度等级。
- 解锁:按钮与外置界面解锁按钮同步,按钮纽扣在左边为上锁状态,按钮纽扣在右边为解锁状态。
- 抛投:需要先解锁才能使用,点击一次会进行一次抛投,可以多次点击直到所有挂钩全部松开,此时抛投器需要手动复位才能重新使用。
- 详细信息:点击后悬浮窗显示当前连接负载的sn号以及固件版本号。

六、固件升级

注意事项: 进行升级操作前,需要切换OTG开关,将拨键向下拨动,方可进行固件升级、导出日志的操作。



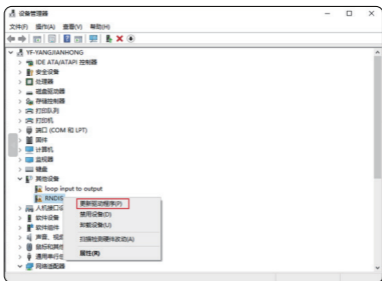
使用Type-C信号线连接控制盒的PSDK口与PC端以进行固件升级。
完成固件升级等操作后,将OTG拨键向上拨动可重新连接上FC30运输机。

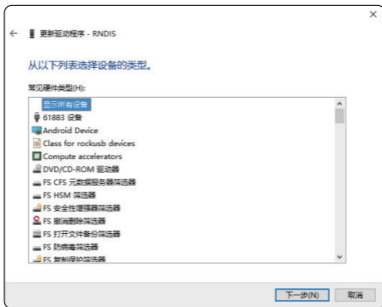
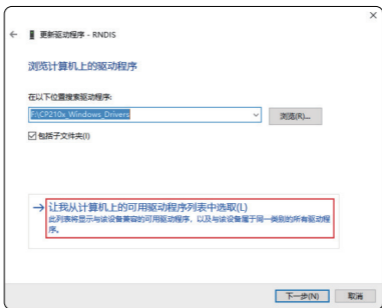
1. 驱动安装

如负载接入电脑后没有正常识别并跳转到对应界面,则可能需要手动安装更新一次RNDIS驱动。在控制盒连接Windows的情况下打开“成至助手”软件,点击左上角的“设置”按钮,后点击”驱动检查”按钮。此时应弹出”Windows设备管理器”,”其他设备”中的”RNDIS”项是提示需要更新的。



右击“RNDIS”选项,点击“更新驱动程序”,在新弹出的页面中点击“浏览我的电脑以查找驱动程序”,接着点击“让我从计算机上的可用驱动程序列表中选择”。此时应显示不同设备的驱动列表。





此时下拉找到“网络适配器”选项,并点击下一步。



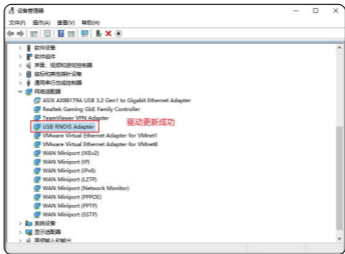
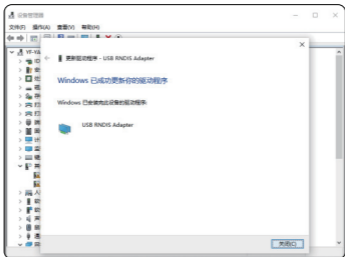
在新页面的左方”厂商”列表中下拉找到”Microsoft”并点击，再下拉右方的型号找到”USB RNDIS Adapter”，点击下一步。



如果弹出”更新驱动程序警告”，则点击”是”即可。



此时RNDIS驱动更新完成。

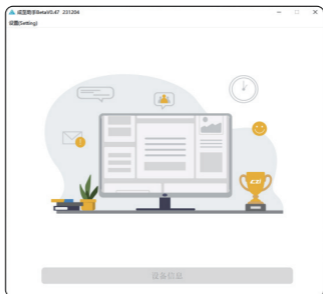


此时重新连接控制盒与PC，就可以正常连接。

2. 主页-离线升级介绍-在线升级介绍-导出日志

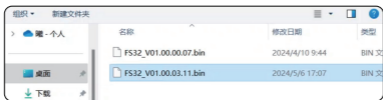
设备主页

FS32未连接时,成至助手软件停留在主页界面,设备连接后跳转至FS32设备功能界面。



离线升级

在成至官网下载FS32的固件后,点击上方离线升级按钮,选择该固件后开始升级固件。固件传输完成后设备会断开并重启,等待设备重新连接后即升级完成。可查看软件版本来判断是否升级成功。





在线升级：

需要电脑可以连接互联网。点击在线升级后弹出如下界面，双击后即可进行升级。后续过程与离线升级一样。



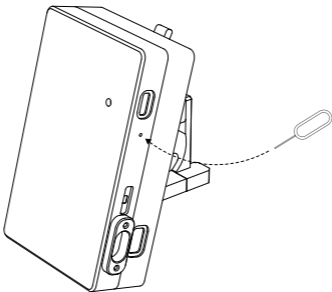
日志导出：

点击日志导出功能, 选择本地文件夹后开始导出到本地。



七、恢复出厂设置

将FS32控制盒接通电源,等待约10秒后,使用复位卡针(或针状物)插入复位开关孔以按下Reset按键,并保持5秒以上,直到指示灯开始黄-绿闪烁约4次后方可松开,等待系统重启完成即可。



I.Disclaimer and Warning

1. Thank you for purchasing czi products. The contents mentioned herein are related to your safety and legal rights and responsibilities. Before using this product, please read this document carefully to ensure that you have set up the product properly. Failure to follow the instructions and warnings in this document may result in injury to you and others. This document and all related documents are subject to the final interpretation of czi. Updates are subject to change without notice. Please visit the official website at www.czi.com.cn for the latest product information.
2. Please install FS32 correctly according to the manual installation tutorial.

II.Introduction to FS32

Products are used with DJI FC30 Flycart to achieve MP130C, GL60C Plus and TH4C airborne adaptation, providing broadcasting / emergency lighting / throwing and other functions for the aircraft at the same time.

Usage Scenario

1. The product with GL60C Plus can be applied to the lighting application under a variety of emergency repair and rescue scenarios, which can meet the needs of long-time operation at night.
2. The product with MP130C can be applied to a variety of emergency repair and rescue scenarios under the broadcasting application, which can meet the needs of long-time operation at night.
3. The product with TH4C can be applied to a variety of emergency repair and rescue scenarios under the throwing application, which can meet the needs of long-time operation at night.
4. It can be used in any other scenarios of FC30 Flycart.

Installation Method

The product is designed with quick release, which can be quickly installed on the FC30 Flycart.

III. Specification of FS32

Specification of FS32

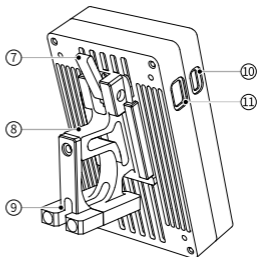
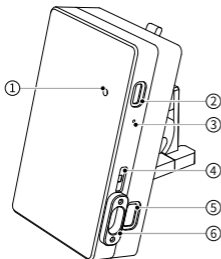
External dimension / mm (Control box)	L:70 x W:30 x H:106
External dimension / mm (Unilateral bracket)	L:158 x W:130 x H:135
Material	PC + Aluminum Alloy
Installation method	Quick release
Total weight / g	≤635
Control	PSDK
Rated input voltage / V	60V
Total power / W	400 ± 10%
Output power at XT30 terminal / W	≤300
Operating environment	Temperature: -20°C - +50°C Humidity: 15% - 95%
Storage environment	Temperature: -40°C - +85°C Humidity: 15% - 95%
Service life	≤Three years
Packing	Transit case + EVA liner

Specification of FS32 Control box

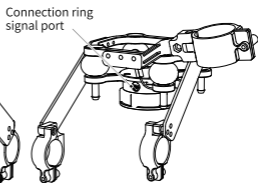
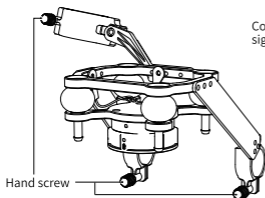
Rated input voltage / V	52.22V-59.92V
Total power / W	≤400W
Rated voltage at XT30 output terminal / V	24V
Maximum power at XT30 output terminal / W	≤300W
Rated voltage at Type-C output terminal / V	17V
Rated power at Type-C output terminal / W	70W

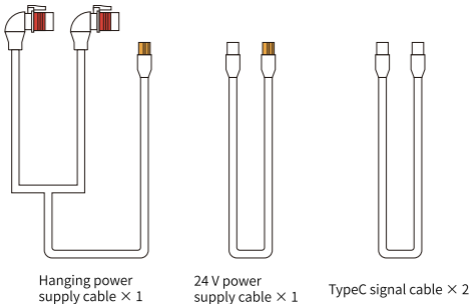
IV. Installation Tutorial

1. Introduction of control box, bracket and cable



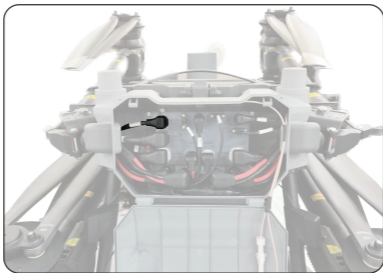
- ① Indicator light ② P1 output port ③ Reset switch hole ④ OTG switch
- ⑤ Power input port ⑥ PSDK port ⑦ Spring switch
- ⑨ Quick release bracket 2 ⑧ Quick release bracket 1
- ⑩ P2 output port ⑪ P3 output port





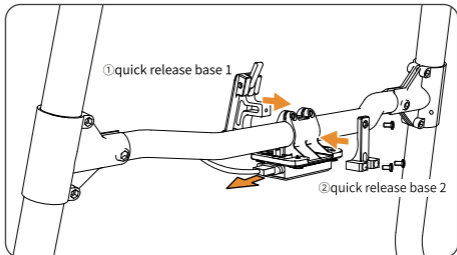
2.Installation of the hanging power supply cable

Replace the logistic machine's hanging power supply cable at the location shown in the figure below using the empty crane power supply cable provided with FS32.

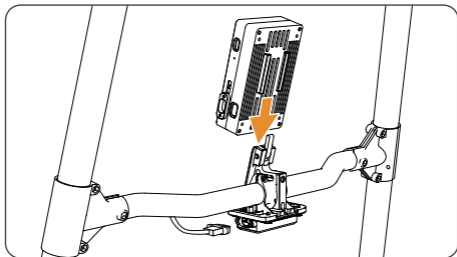


3.Installation Method of Control Box

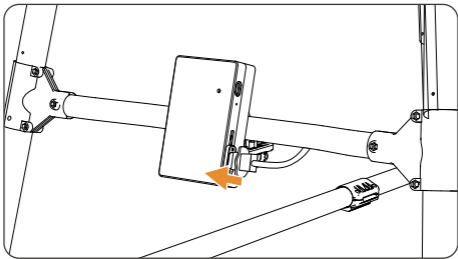
- 3.1 Put the quick release base 1 through the double mesoporous between the 4G module and the transverse stand of the logistics machine and set it flat, then lock the quick release base 2 with screws until the base does not shake. At the same time, remove the data cable of the 4G module of the logistics machine.



- 3.2 Press the quick release switch to tighten the spring, align it with the skewed slot, and slide the control box from top to bottom along the skewed slot to install it until it cannot be moved.

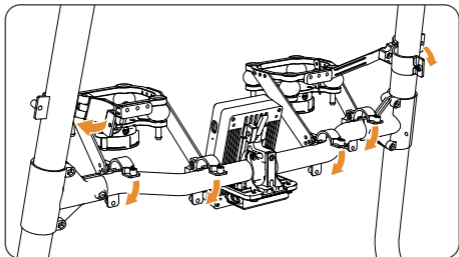


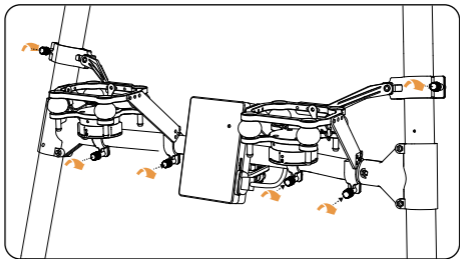
- 3.3 Connect the removed data cable of the 4G module of the logistics machine to the PSDK port of the FS32 control box.



4. Installation Method of Bracket

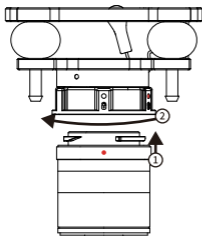
Adjust the position of the side clamps and transverse clamps so that they can be completely attached to the aircraft stands of the side clamps and transverse clamps until they are not easy to shake, then lock the hand screws on the side clamps and transverse clamps, observe the bracket's body state and ensure that its adapter ring is in the vertical direction.



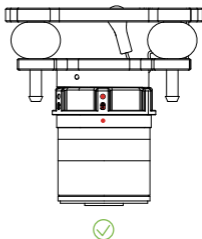


5. Load Installation

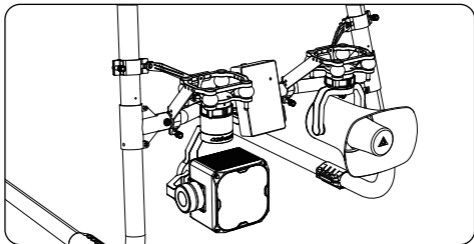
Before Installation



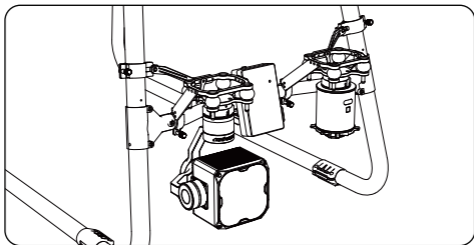
After Installation



Complete GL60C Plus, MP130C load installation

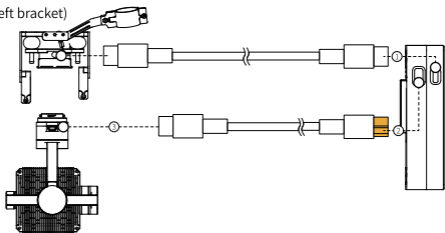


Complete GL60C Plus, TH4C load installation

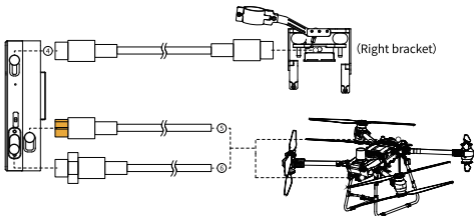


6.Connection Method of Control Box

(Left bracket)












- ① Use the TypeC signal cable to connect the P2 output port of the control box and the logistics bracket (left).
- ② Use the 24 V power supply cable to connect the P3 output port of the control box.
- ③ Use the TypeC power cable to connect the 24 V power supply cable port.



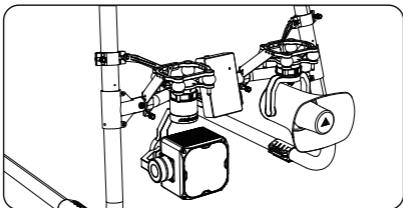
- ④ Use the TypeC signal cable to connect the P1 output port of the control box and the logistics bracket (right)
- ⑤ Use the hanging power supply cable to connect the power input port of the control box
- ⑥ Use the 4G module data cable of FC30 to connect the PSDK port of the control box

Indicator status display

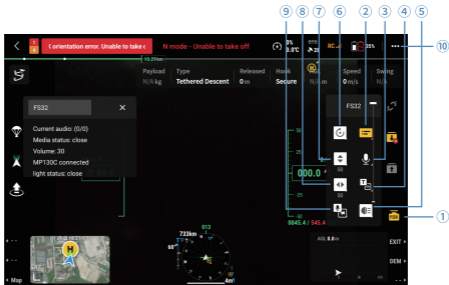
Flashing mode		descriptions
 —————	Solid Yellow	The power supply is working , but the PSDK is not successfully initialized.
	Yellow lights Off	PSDK initialized successfully
 —————	Solid Green	Both loads are connected
 - - - - -	Slow Green Blink	Shouting or throwing device not connected, about 2s flash once.
 - - - - -	Quick Green Blink	Gimbal light is not connected flashes once in about 0.5s
	Green lights Off	Neither side of device is connected
 - - - - -	Yellow lights, 50ms	Upgrade process
  - - - - -	Alternating Yellow and green lights	Restore Factory Settings

V.DJI Pilot 2 Use Tutorial

First of all, if the left load is connected to the tripod head lamp and the right load is connected to the loudspeaker, the control usage instructions are described as follows:



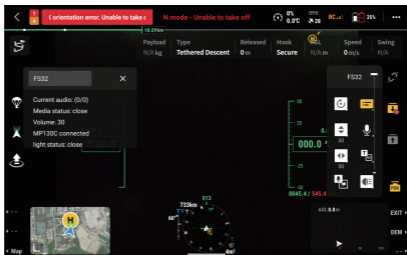
- ① PSDK external settings menu: Click to expand the following figure shows that each serial number in the figure corresponds to the explanation of the function see the corresponding number serial number



② Hovering dialogue window

Click to display hovering dialogue window on the right side of the figure below, which can display the current connected load information

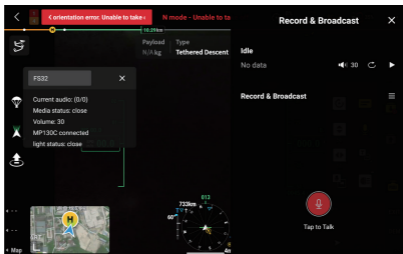
- 1) If only connect the broadcasting, the hovering dialogue window will display the current audio, the media status, volume, MP130C connected, and temperature;
- 2) If only connect the Gimbal Light, the hovering dialogue window will display the Gimbal Light brightness, the Gimbal Light status, GL60C Plus connected, and temperature;
- 3) If only connect the Dropping system, the hovering dialogue window will display the status of the Dropping system lock, the current throwing position of the Dropping system, TH4C connected, and temperature;
- 4) Both left and right side loads are connected, the hovering dialogue window will display information about the two connected loads;
- 5) Both left and right side loads are not connected, the hovering dialogue window will display that none of the loads are connected;



③ Recording Function

Recording broadcasting: Click the record broadcasting button, select [Click to speak], then it will start to record the sound, click to end the recording, it will generate the audio file, then click the broadcasting button, you can hear the sound recorded just now to play out through the Broadcasting.

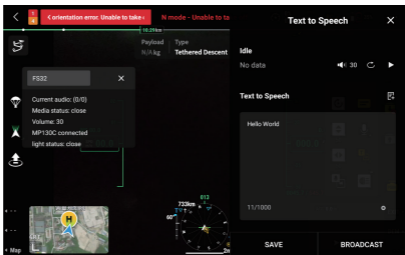
Live broadcasting: Click on the function switch (See VI-9), switch the function of the Broadcasting to live broadcasting, click to speak, the Broadcasting will broadcast the contents while speaking.



④ Text-to-speech broadcasting

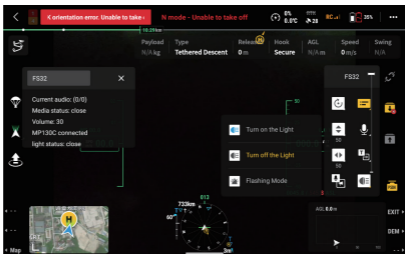
Input text, click the broadcast button, you can convert the text into speech to play, in the built-in PSDK interface (VI-10) you can also select the dialect and speed of speech.

You can also adjust the volume, loop playback, and playback start / pause in this interface.



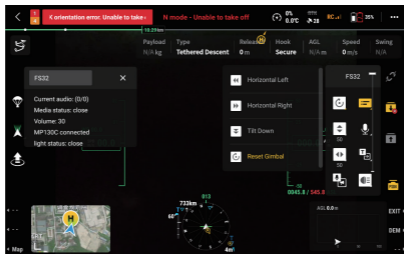
⑤ Gimbal Light Control Switch

Click to expand the list of Gimbal Light control buttons, there are three options: light on, light off, Flashing mode, click to trigger the corresponding Gimbal Light status.



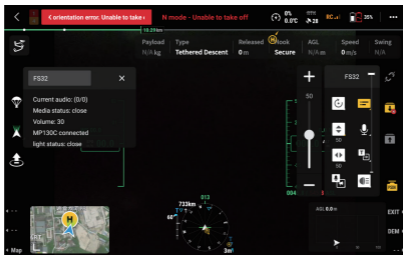
⑥ Specific Angle Control of the Gimbal Light

As shown in the figure, you can realize specific angle control of the Gimbal Light: turn the Gimbal Light left by 90 degrees, turn the Gimbal Light right by 90 degrees, turn the Gimbal Light angle to the right, turn the Gimbal Light angle to the bottom, and turn the Gimbal Light angle back to the center.



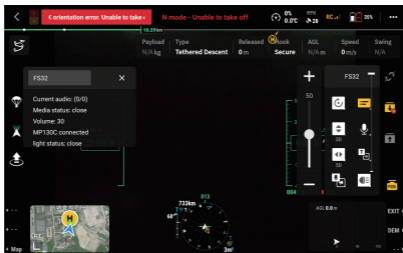
⑦ Adjustment of the Pitch Angle of the Gimbal Light

As shown in the figure, this button will expand the slider after clicking, the initial position of the slider is 50 in the center, which represents the meaning that the position of the Gimbal Light is centered vertically, sliding a certain value upward, the angle of the Gimbal Light will rotate upward, and sliding downward will rotate the angle of the Gimbal Light downward.



⑧ Yaw angle adjustment of the Gimbal Light

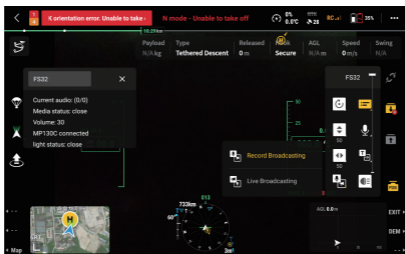
As shown in the figure, this button will expand the slider after clicking, the initial position of the slider is 50 in the center, which represents the meaning that the position of the Gimbal Light is centered horizontally, sliding a certain value downward, the angle of the Gimbal Light will be turned to the left, and sliding upward, the angle of the Gimbal Light will be turned to the right.



⑨ Switch between live broadcasting and recorded broadcasting

Power on the default is recorded broadcasting, click on the live broadcasting to switch to live broadcasting state, then click on the Broadcasting recording function, it will become live broadcasting.

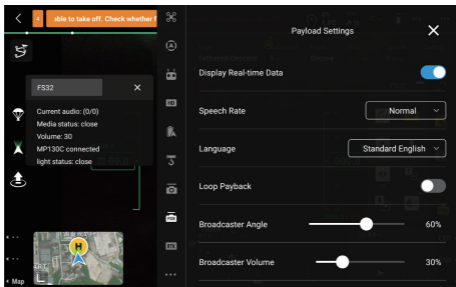
This function should be used in conjunction with the recording function (VI-3).

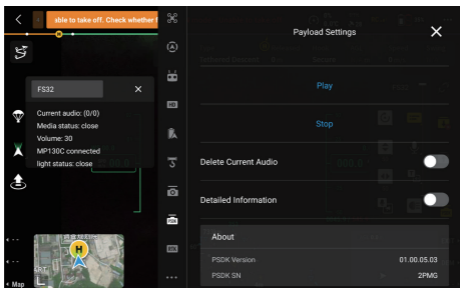
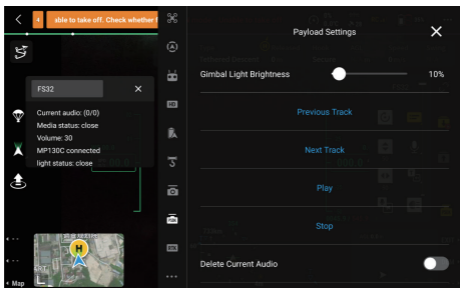


⑩ PSDK Built-in Menu

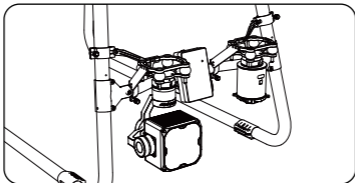
- After clicking on it, the following figure is displayed:
Display live data switch: Click to open, display information hovering dialogue window, click to close, the hovering dialogue window disappears.
- Speech rate:
including a total of 5 speech rate options: very slow, slow, normal, fast, very fast.
- Language:
It supports many dialects currently: Mandarin female version, Mandarin male version, Henan, Shaanxi, Sichuan, Cantonese, Hunan, Northeastern, Standard English.
- Cyclic playback:
Click to open the cyclic playback, at the moment, [Audio Playback] and [Text-to-Speech] will turn into cyclic playback mode, the recording function doesn't support cyclic playback.

- **Broadcasting angle:** The initial value is set to 60. After sliding the slider, the pitch angle of the Broadcasting (0 - 60°) will be changed according to the slider percentage (0 - 60%). Because the factory default maximum angle of the Broadcasting is 60, it is not possible to make the maximum angle of the Broadcasting exceed 60 even if the slider value exceeds 60, unless the maximum angle parameter of the Broadcasting is configured.
- **Broadcasting volume:** The initial value is set to 30, which can be changed by the slider.
- **Gimbal Light brightness:** The initial value is set to 10, which represents the Gimbal Light brightness level.
- **Audio switch and play buttons:** Previous, Next, Play, Stop. First open the hovering dialogue window, you can see the current audio name, click the Next to switch the audio, and then click Play. Play audio, click Stop to stop playing, the next time you click Play will start from the beginning.
- **Delete current audio:** Clicking on this will delete the audio file currently displayed in the hovering dialogue window; it cannot be recovered after deletion unless the audio is re-imported to the SD card (click with caution).
- **Detailed information:** After clicking on it, the floating window displays the sn number of the currently connected load as well as the firmware version number.

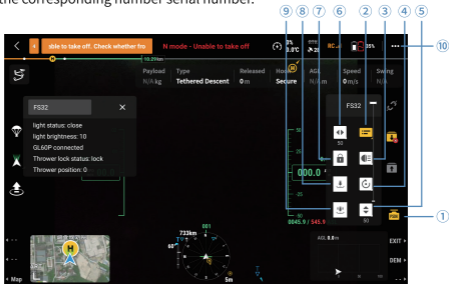




If the Gimbal Light and Dropping system are connected, the instructions are shown below:

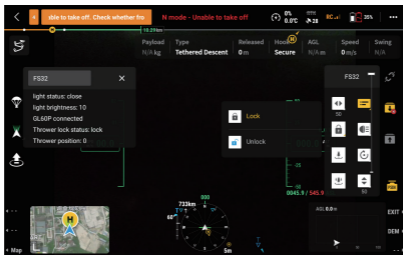


- ① PSDK external settings menu: Click to expand the following figure shows that each serial number in the figure corresponds to the explanation of the function see the corresponding number serial number.

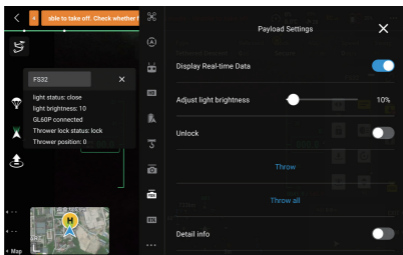


The number ② ③ ④ ⑤ ⑥ has the same functional meaning as above.

- ⑦ Unlock Dropping system: The interface is shown as below. If the Dropping system is locked, the throwing button can not be used; you can click on the UNLOCK button to throw, or click on the LOCK button to prevent accidental touching.



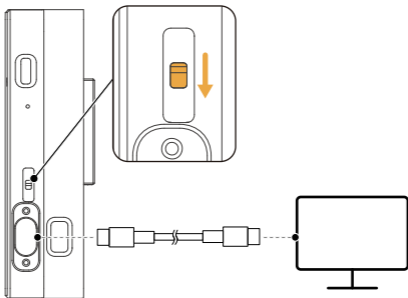
- ⑧ Throwing: It needs to be unlocked before using. Clicking it once will make a throwing. It can be clicked several times until all the hooks are loosened. At this time, the Dropping system needs to be reset manually before it can be used again.
- ⑨ One Click All Throw: When pressed, all hooks of the thrower will be released if the thrower is in the unlocked state.
- ⑩ PSDK Built-in Menu: When pressed, all hooks of the thrower will be released if the thrower is in the unlocked state.



- Gimbal Light brightness: The initial value is set to 10, which represents the Gimbal Light brightness level.
- Unlock: the button is synchronized with the external interface UNLOCK button. The left side of the button is for locked status, and the right side of the button is for unlocked status.
- Throwing: It needs to be unlocked before using. Clicking it once will make a throwing. It can be clicked several times until all the hooks are loosened. At this time, the Dropping system needs to be reset manually before it can be used again.
- Detailed information: After clicking on it, the floating window displays the sn number of the currently connected load and the firmware version number.

VI. Firmware Upgrade

Precautions: Before upgrading, you need to switch the OTG switch and turn the toggle key downward to upgrade the firmware and export the log.

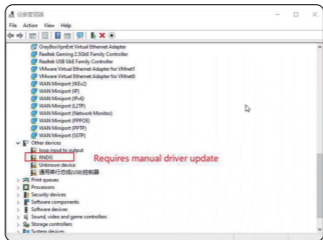
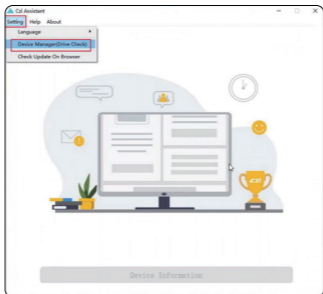


Use the Type-C signal cable to connect the PSDK port of the control box to the PC for firmware upgrade.

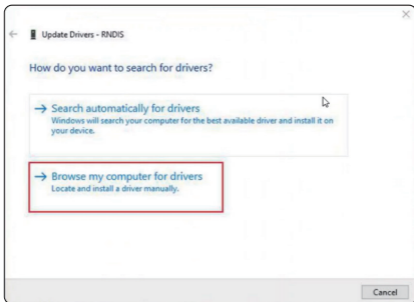
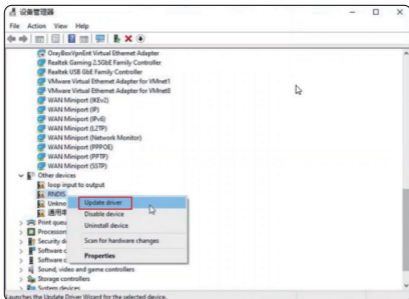
After completing the firmware upgrade and other operations, the FC30 Flycart can be connected only after the toggle key is turned upward.

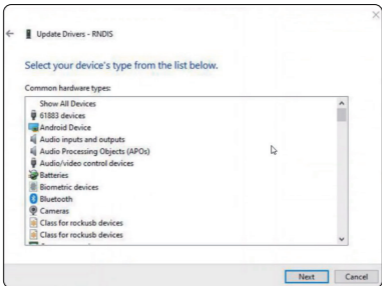
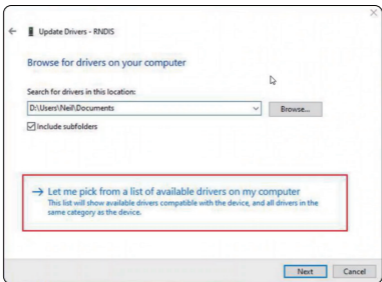
1. Driver Installation

If the load is not recognized and jump to the corresponding interface after connecting to the computer, you may need to install and update the RNDIS driver manually. In the case that the control box is connected to Windows, open the “czi Assistant” software, click the “Settings” button in the upper left corner, and then click the “Driver Check” button. “Windows Device Manager” should pop up at this time, “RNDIS” item in “Other Devices” is prompted to need to update.

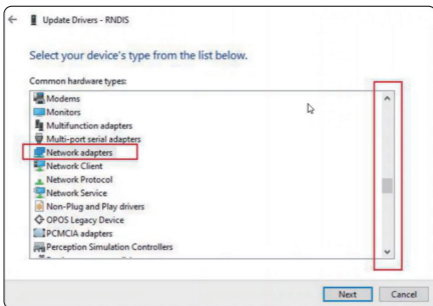


Right-click on the “RNDIS” option, click on “Update Drivers”, click on “Browse my computer for drivers” on the new page that pops up, and then click on “Let me select from a list of available drivers on my computer”. A list of drivers for different devices should be displayed.

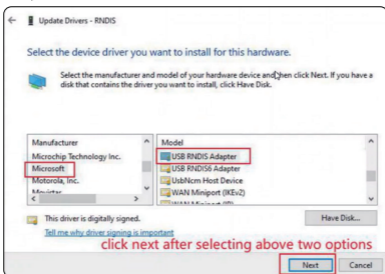




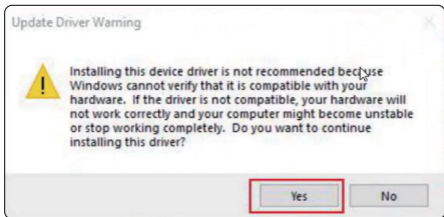
At this point, scroll down to the “Network Adapters” option and click Next.



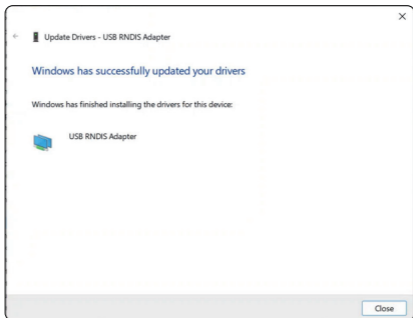
On the new page, scroll down to the left of the “Vendor” list to find “Microsoft” and click on it, then scroll down to the right of the model number to find “USB RNDIS Adapter” and click Next.

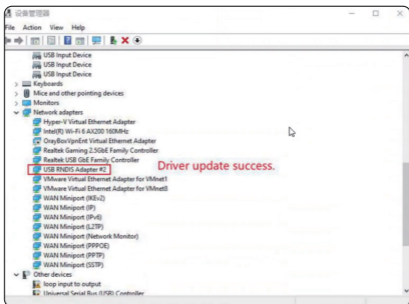


If “Update Driver Warning” pops up, click “Yes”.



At this point, the RNDIS driver update is complete.

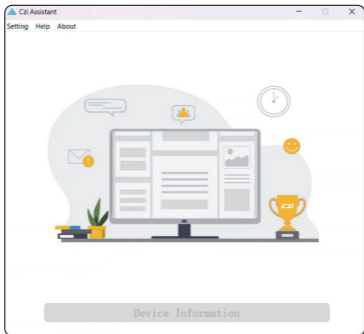




At this time, reconnect the control box and PC, you can connect normally.

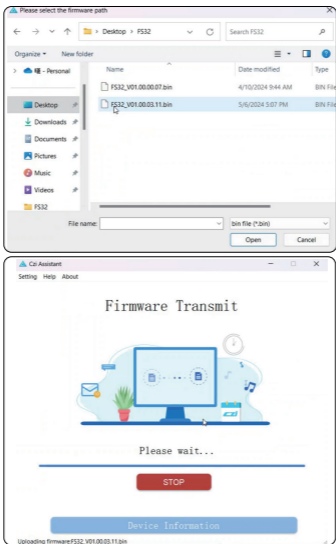
2. Homepage - Offline Upgrade Introduction - Online Upgrade Introduction - Export Logs Device homepage

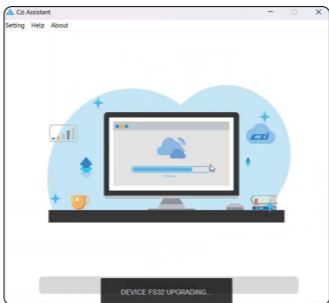
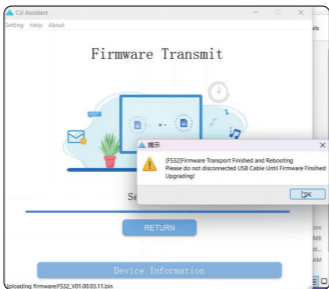
When FS32 is not connected, the czi Assistant software stays in the homepage interface, and jumps to the FS32 device function interface after the device is connected.

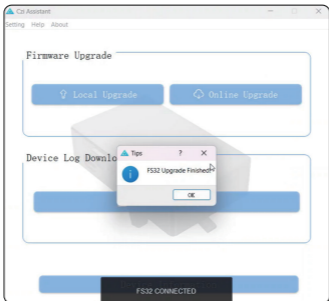


Offline Upgrade

After downloading the firmware of FS32 from the czi official website, click the Offline Upgrade button on the top, select the firmware and start upgrading the firmware. The device will be disconnected and restarted after the firmware transfer is completed, and the upgrade will be completed after the device is reconnected. You can check the software version to determine whether the upgrade is successful.

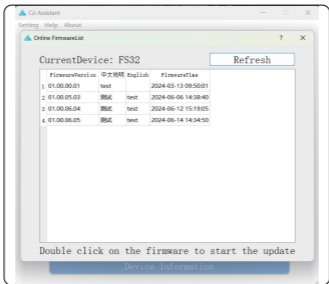






Online upgrade

Online upgrade requires the computer to be connected to the Internet. After clicking Online Upgrade, the following interface will pop up, double-click it to upgrade. The subsequent process is the same as offline upgrade.



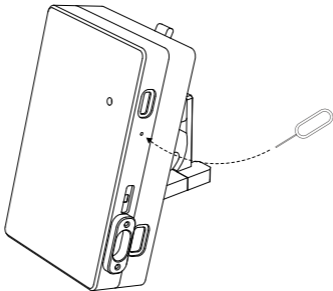
Log Export

Click the Log Export function, select the local folder and start to export to local.



VII. Restore Factory Settings

Power on the FS32 control box, wait for about 10 seconds, use the reset card pin (or needle) to insert into the reset switch hole to press the Reset button, and hold it for more than 5 seconds until the indicator light starts to flash yellow-green for about 4 times before releasing it, and wait for the system restart to complete.



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If you have any questions or suggestions
regarding the manual, please contact us at:

czzn@czi.com.cn

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