

GL60 mini

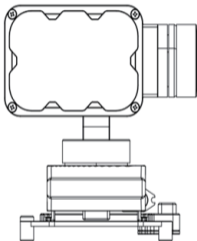
云台探照灯说明书

GL60 mini Gimbal Searchlight

用户说明书 (V1.0)

User Manual

2024.06.06



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一、免责声明与警告

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。不遵循和不按照本文的说明与警告来操作可能会给您和周围的人带来伤害，损坏本产品或其它周围的物品。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 官方网站以获取最新的产品信息。

警告事项

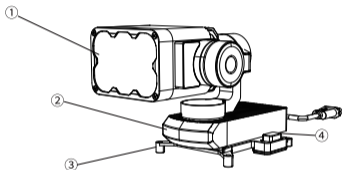
1、GL60 mini 云台探照灯，在无人机起飞前工作，功率默认限制在 30%（功率可手动调节为 50% 或 100%）；起飞后，功率可达 100%。

注意事项

2、GL60 mini 云台探照灯，在工作后，请勿直接接触灯外壳，小心高温烫手。

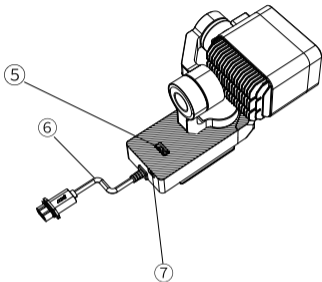
二、GL60 mini云台探照灯介绍

GL60 mini 云台探照灯，为成至首款适配 DJI M30/M30T 行业无人机探照灯，额定功率 60W。GL60 mini 云台探照灯，由光学成像透镜结构组成，发光角度为 13°。连接 DJI Pilot 2 APP 即可控制开关、切换常亮及爆闪等模式，且能自动跟随云台相机的转动。GL60 mini 云台探照灯，具备先进的自动温控系统，工作 1000 小时后的光衰减小于 5%。



(1) GL60 mini云台探照灯(前视)

- | | |
|--------|-------|
| ①白色聚光灯 | ②爆闪灯 |
| ③快拆支架 | ④快拆按钮 |



(2) GL60 mini云台探照灯(俯视)

- ⑤ 指示灯 ⑥ 供电通讯线
⑦ 复位按钮

技术参数

型号	GL60 mini		
电气接口	DJI PSDK		
重量/g	240±3%		
尺寸/mm	L135*W87*H84		
总功率/W	68		
白光LED功率/W	60		
供电电压/V	24		
光通量/lm	6000±3%		
FOV/°	13		
探照距离/m	150	100	50
光斑直径/m	34	22.8	11.4
探照面积/m ²	917	407	102
中心光照度/Lux	6.3	14.4	57
云台可控转动范围	俯仰	-60°~+110°	
	水平	±90°	
	横滚	-45°~+28°	
工作温度	-20°C - +50°C		

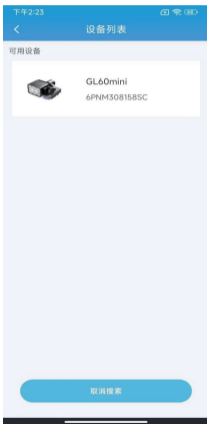
三、GL60 mini云台探照灯激活教程

3.1 使用智声 APP 激活。

3.1.1 打开智声APP, 注册并登录账号, 进入到主界面, 点击连接设备。



3.1.2 选择可用设备。

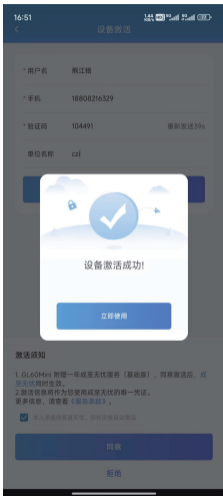


3.1.3 点击立即激活。



3.1.4 按提示输入信息，确认无误后点击激活，阅读激活须知后勾选授权，点击同意。





3.1.5 设备重启后界面出现产品序列号（如：1PNX）以及激活时间（如：2024-02-26），表示设备已经激活成功。



3.2、使用 czi Pilot APP 激活。

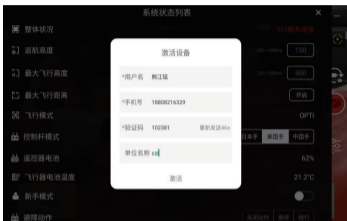
3.2.1 打开 czi Pilot APP（第一次打开需要联网注册）。



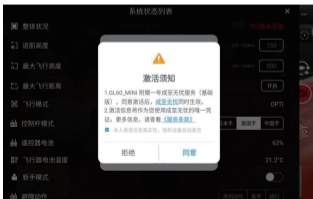
3.2.2 点击确定开始激活。



3.2.3 输入相关信息，点击激活。



3.2.4 阅读激活须知后点击同意。



3.2.5 激活成功点击确定，设备重启后即可正常使用。



四、GL60 mini云台探照灯使用教程

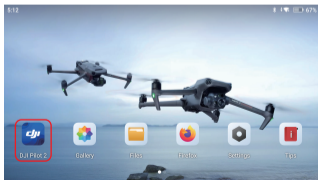
4.1.1 在无人机上安装 GL60 mini 快拆支架，并拧紧螺丝。

4.1.2 将 GL60 mini 云台探照灯主机从滑槽推进快拆支架，确认卡好。

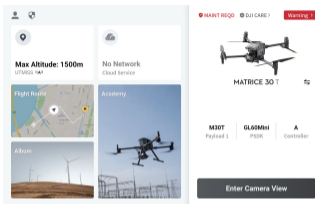
4.1.3 将电源通讯线插到无人机插线口（右侧口），机场版还需将压线杆装到快拆支架上，将压线块压到通讯线上，拧好螺丝。

4.1.4 正确打开无人机电源（短按一秒长按三秒），启动无人机。

4.1.5 启动遥控器，打开 APP。



4.1.6 进入到主界面，显示 GL60 mini 字样，说明负载连接成功。点击屏幕右下角进入飞行界面。



4.1.7 点击 PSDK 按钮，显示 GL60 mini 各控件按钮。



4.1.8 GL60 mini 各控件按钮介绍。

	关灯		开灯
	爆闪关闭		爆闪开启
	警灯关闭		警灯开启
	纯红警灯		纯蓝警灯
	亮度调节		亮度调节
	光斑自动居中算法 关闭		光斑自动居中算 法开启
	云台跟随		云台锁定

4.2、czi Pilot 使用教程

4.2.1 打开遥控器 czi pilot APP（第一次使用需要注册联网）。



4.2.2 等待识别到设备后，点击进入设备。

czi

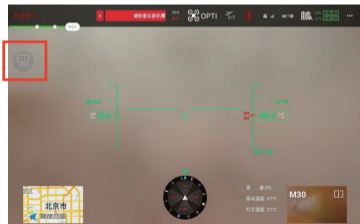


GL60Mini

● Matrice 30 Series

[进入设备>>](#)

4.2.3 点击图标可打开 GL60 mini 控件。



4.2.4 打开控件后有 6 种基础功能。点击  可进入菜单。



4.2.6 进入菜单后可查看设备信息以及微调功能。



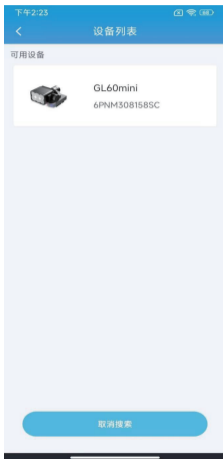
五、GL60 mini 云台探照灯固件升级教程

5.1、使用智声 APP 升级。

5.1.1 进入智声 APP。



5.1.2 选择设备。



5.1.3 点击检查更新。



5.1.4 点击立即更新。

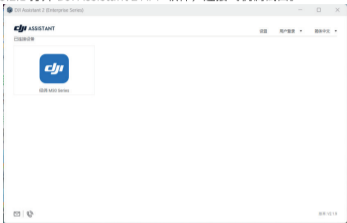


5.1.5 等待更新完成。



5.2 使用 DJI Assistant 2 APP 升级。

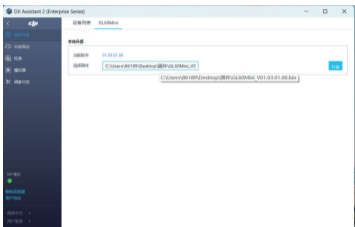
5.2.1 打开 DJI Assistant 2 APP 软件，连接飞机调试口。



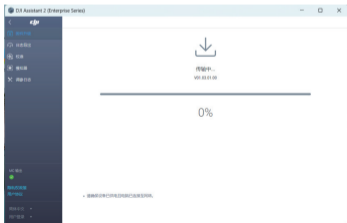
5.2.2 连接后点击 GL60 mini。

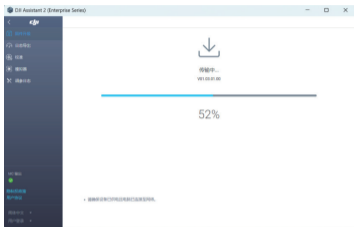


5.2.3 从官网下载最新固件到本地，选择固件进行升级。

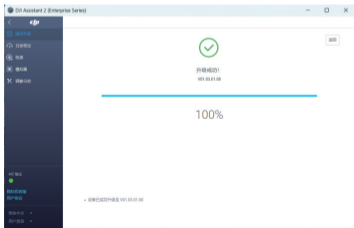


5.2.4 等待升级。





5.2.5升级完成。



I. Disclaimers and Warnings

Thank you for purchasing our intelligent product. The contents mentioned in this guidance are related to your safety and legitimate rights and responsibilities, so please read this guidance carefully to set up the product correctly before using. Harms of hurting you or the people around you or this product or other surrounding items may be caused as a result of failing to follow the instructions and warnings herein. The right for final interpretation of this guidance and all related documents is vested in CZI. Subject to update without notice. Please visit www.czi.com.cn for the latest product information.

Warnings

The GL60 mini Gimbal Searchlight is a precision optical device. In case of any hardware issues, please contact our after-sales service for assistance. Do not attempt to disassemble or repair the device yourself, as it will void the warranty and service eligibility.

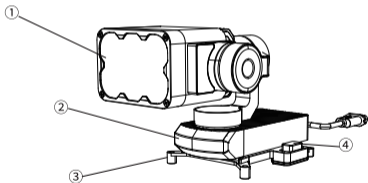
Precautions

1.The GL60 mini Gimbal Searchlight operates at a default power limit of 30% before the drone takes off (the power can be manually adjusted to 50% or 100%). After takeoff, the power can be increased to 100%.

2.During the operation of the GL60 mini Gimbal Searchlight, please avoid direct contact with the outer shell of the light as it may cause burns by high temperature.

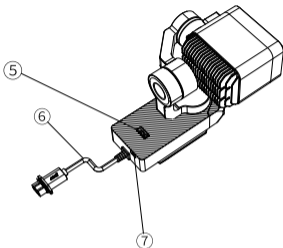
II. Introduction to GL60 mini Gimbal Searchlight

The GL60 mini Gimbal Searchlight is the first lightest gimbal searchlight in the industry, designed specifically for the DJI M30/M30T industrial drone with a rated power of 60W. The GL60 mini Gimbal Searchlight features an optical imaging lens structure with an emission angle of 13°. By connecting to the DJI Pilot 2 APP, you can control the power switch, switch between constant light and flashing modes, and the light will automatically follow the movement of the gimbal camera. The GL60 mini Gimbal Searchlight is equipped with an advanced automatic temperature control system, ensuring that the light attenuation is less than 5% after 1000 hours of operation.



(1) GL60 mini Gimbal Searchlight (Front view)

- | | |
|---------------------------|--------------------------|
| (1) White spotlight | (2) Flashing light |
| (3) Quick release bracket | (4) Quick release button |



II. Introduction to GL60 mini Gimbal Searchlight (Top view)

(5) Indicator light

(6) Power and communication cable

(7) Reset button

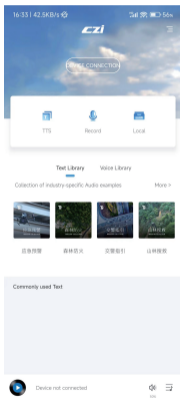
Technical Parameter

Model	GL60 mini		
Electrical interface	DJI PSDK		
Weight / g	240±3%		
Dimension / mm	L135*W87*H84		
Total power / W	68		
White LED power /W	60		
Red and blue LED power / W	2		
Supply voltage / V	24		
Luminous flux / lm	6000±3%		
FOV /°	13		
Illumination distance / m	150	100	50
Beam diameter / m	34	22.8	11.4
Illumination area / m2	917	407	102
Center illuminance / Lux	6.3	14.4	57
Gimbal controllable rotation range	Pitch	-60°~+110°	
	Horizontal	±90°	
	Roll horizontally	-45°~+28°	
Operating temperature	-20°C - +50°C		

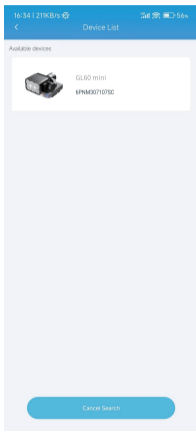
III. Activation Tutorial for GL60 mini Gimbal Searchlight

3.1 Activate in the czi sound APP

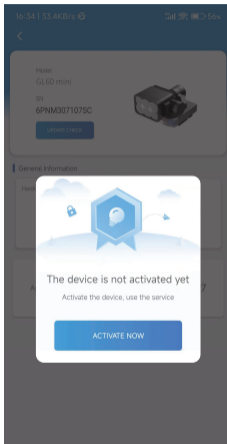
3.1.1 Open the czi sound APP, register, and log in to your account. Enter the main interface and click on Connect Device.



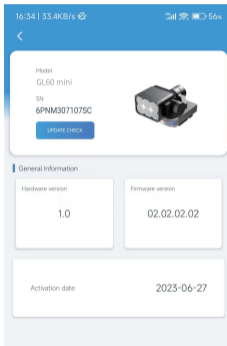
3.1.2 Select the Available device.



3.1.3 Click on Activate Now.



3.1.4 The interface displays the Product serial number (e.g., 1PNX) and Activation time (e.g., 2023-06-27), indicating that the device has been successfully activated.

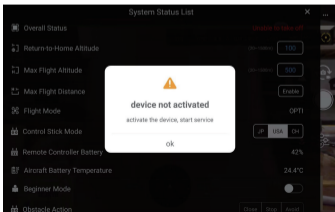


3.2. Activate in the czi Pilot app

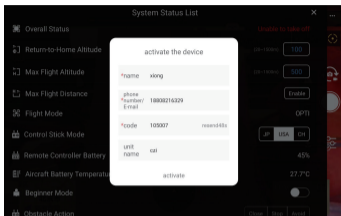
3.2.1 Open czi Pilot APP .(online registration is required when it is opened for the first time)



3.2.2 Click OK to start activation.

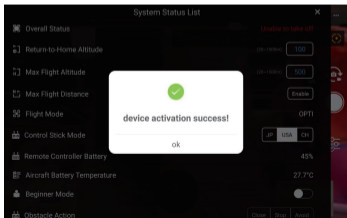


3.2.3 Enter the relevant information and click Activate .



3.2.4 Click Agree after reading Activation Instructions.

3.2.5 Click OK after successful activation, and the device can be used normally after restarting.



IV. User Manual for GL60 mini Gimbal Searchlight

4.1 User Manual for DJI Pilot 2

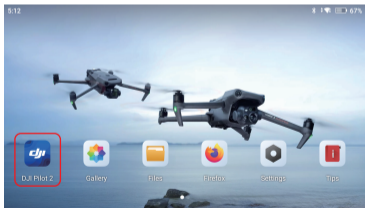
4.1.1 Install the GL60 mini quick release bracket on the drone and tighten the screws securely.

4.1.2 Push the GL60 mini head searchlight main unit from the slide into the quick release bracket and make sure it snaps into place.

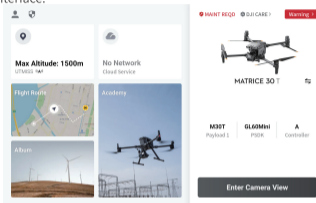
4.1.3 Plug the power communication cable into the drone plug port (right port), the DJI Dock version also needs to install the crimping pole to the quick release bracket, press the crimping block to the communication cable, and tighten the screws.

4.1.4 Power on the drone correctly (short press for one second and long press for three seconds) to start the drone.

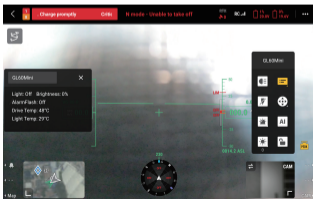
4.1.5 Turn on the remote controller and open the APP.



4.1.6 Enter the main interface, which displays the GL60 mini letters, indicating a successful connection to the load. Click on the bottom right corner of the screen to enter the flight interface.



4.1.7 Click the PSDK button to display the control buttons of GL60 mini.

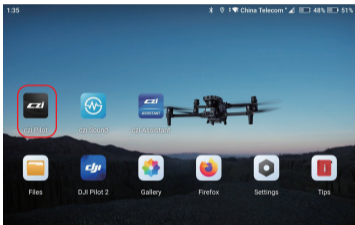


4.1.8 Introduction to GL60 mini Gimbal Searchlight Control Buttons.

	Turn off the light		Turn on the light
	Turn off the flashing mode		Turn on the flashing mode
	Turn off the warning lights		Turn on the warning lights
	Activate red warning lights		Activate blue warning lights
	Adjust brightness		Adjust brightness
	Disable automatic beam centering algorithm		Enable automatic beam centering algorithm
	Enable gimbal follow mode		Lock the gimbal follow mode

4.2 czi Pilot User Tutorial

4.2.1 Open the remote control czi pilot APP. (online registration is required when it is used for the first time)



4.2.2 Wait for the device to be recognized, then click Enter Device.



GL60Mini

● Matrice 30 Series

[connect device >>](#)

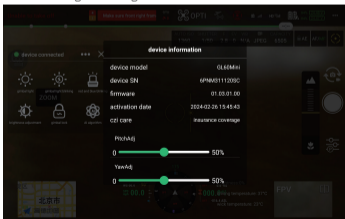
4.2.3 Click on the icon to open the GL60 mini control.



4.2.4 The control opens with 6 basic functions. Click **☰** to access the menu.



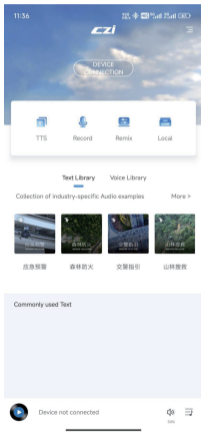
4.2.5 Enter the menu to check the device information as well as fine-tuning functions.



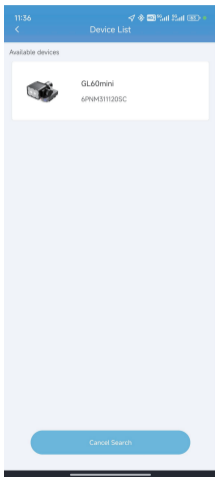
V. Firmware Upgrade Tutorial for GL60 mini Gimbal Searchlight

5.1. Firmware Upgrade through czi sound

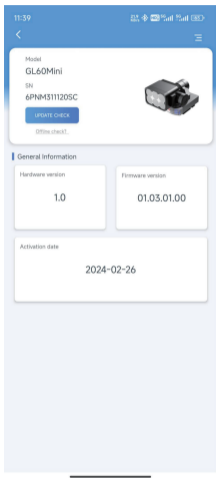
5.1.1 Enter The czi sound APP.



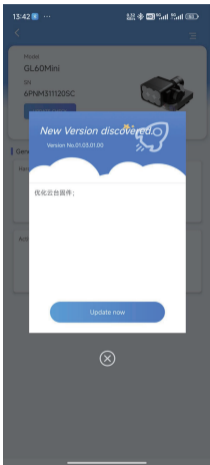
5.1.2 Select Device



5.1.3 Click “Check for Updates”。



5.1.4 Click “Update now”。

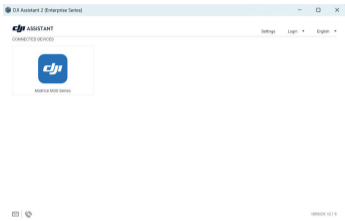


5.1.5 Wait for the upgrade to complete.

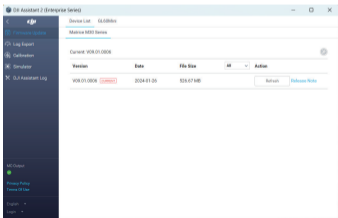


5.2 Firmware Upgrade through DJI Assistant 2 APP

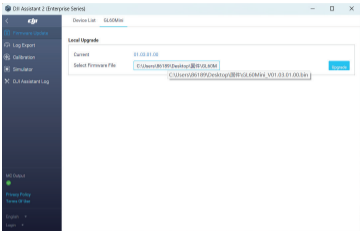
5.2.1 Open DJI Assistant 2 software and connect the aircraft debugging port upgrade.



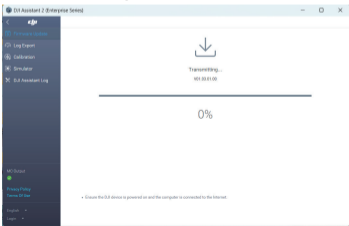
5.2.2 Click GL60 mini after connection.

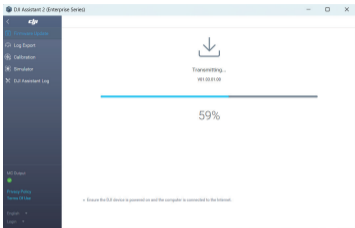


5.2.3 Download the latest firmware from the official website to the local computer, and select the firmware to upgrade.

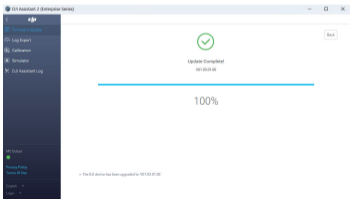


5.2.4 Wait for the Upgrade.





5.2.5 Upgrade completed.



成至 技术支持

www.czi.com.cn

服务热线：400-008-8306

如您对说明书有任何疑问或者建议

请通过以下电子邮箱联系我们：

czzn@czi.com.cn

ChengZhi Support

www.czi.com.cn

Service hotline: 400-008-8306

If you have any questions or suggestions
about the instructions, Please contact us
through the following email address:

czzn@czi.com.cn

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