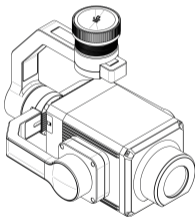


# IR10红外激光变焦云台灯说明书

用户说明书 (V1.0)

2021.01.08



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## 一、红外激光变焦云台灯系列介绍

成至红外激光变焦云台灯系列产品的夜视补光功能,适用于刑事侦查、武警、海警、蹲守侦查、隐蔽取证、安保、禁毒、治安或者边防等任务。

采用大疆DJI SKYPORT V2通用转接环,无需额外供电,即插即用,完美适配DJI M300 RTK及M210 V2无人机。

## 二、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.gzczzn.com](http://www.gzczzn.com) 官方网站以获取最新的产品信息。

## 警告事项

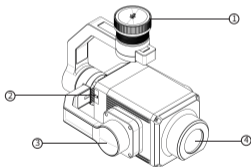
- 1、IR10属于4类非可见光激光器,在激光灯开启的状态下,严禁用眼直视或者使用光学仪器观察激光光束。
- 2、在正常使用的情况下,镜头前方100cm内严禁有易燃物体遮挡,以防发生火灾。
- 3、如遇硬件问题,请返厂维护,请勿擅自拆卸,否则由此造成对激光的不良影响,后果需自行承担。

## 注意事项

- 1、IR10红外激光变焦云台灯的安装方式与大疆其它载荷相同,请确认转接环是否正确安装。
- 2、IR10红外激光变焦云台灯在无人机起飞前,功率和变焦角度会限制在50%以下;起飞后,功率和变焦角度可达100%。

### 三、IR10介绍

成至 IR10 红外激光变焦云台灯,采用光纤匀化激光器,出光功率高达12W。可在0.56-45度之间平滑调节照射光角,聚光、泛光灵活调度,最大红外补光距离大于1000米。配合具备夜景模式(IR模式)的DJI H20/H20T等云台相机,可全程清晰补光,画质通透,具有优秀的透烟雨雾霾效果。且红外灯光人眼不可察觉,可实现超视距外的隐蔽侦查。通过 DJI SkyPort V2.0 接口,可直接挂载在大疆经纬 M200 V2、M300 RTK等系列无人机上使用,为隐蔽补光需求的用户提供超越视觉的黑夜洞察力。使用CZZN APP悬浮窗+DJI Pilot APP即可一键打开DJI H20或H20T的夜景模式,控制开关、调节变焦倍数,亮度以及IR10微调等模式,且能自动跟随云台相机的转动。IR10无风扇的机身实现全密封设计,具备优异的防水防尘性能,能在恶劣气候条件下可靠工作,是DJI M300 RTK行业无人机的最佳搭档。



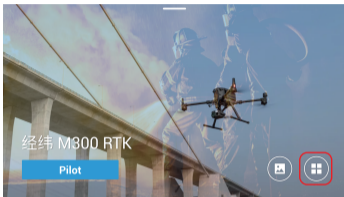
1.云台保护盖 2.内存卡插槽 3.DJI xport 云台 4.出光口

## 技术参数

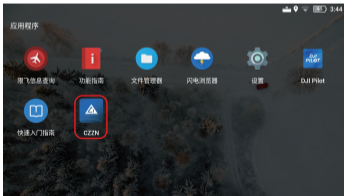
型号	IR10	
电气接口	DJI SKYPORT V2.0	
尺寸/mm	L186*W128*H158	
重量/g	800±5	
功率/W	≤40	
出光功率/W	12±0.5	
FOV/°	0.56-45	
发光波长/nm	808	
探照距离/m	≥1000	
激光安全距离 /m	≥90	
单独控制角度	俯仰	-125°~+40°
	水平	±320°
IR10挂载 1号云台口+DJIH20T	俯仰	-125°~+40°
	水平	-25°~+45°
IR10挂载 2号云台口+DJIH20T	俯仰	-125°~+40°
	水平	-15°~+12°
IR10挂载 1号云台口+ DJI H20	俯仰	-125°~+40°
	水平	±45°
IR10挂载 2号云台口+ DJI H20	俯仰	-125°~+40°
	水平	±45°
工作温度	-20°C~+50°C	

## 四、红外激光变焦云台灯软件使用教程

### 1、点击软件主页面



### 2、点击CZZNAPP (APP在成至智能官方网站www.gzczzn.com 下载)



3. 进入CZZN主界面，点击进入设备（只有第一次使用需要操作第3-5步骤）



4. 进入主界面后点击通用设置，点击IR10悬浮窗。



## 5、点击允许出现在其他应用上，返回即可使用



## 6、点击CZZN弹出提示框上的确认





7. 进入到主界面，左下角显示出IR10字样，说明IR10红外云台变焦灯负载识别成功，可进行下一步操作，点击手动飞行。

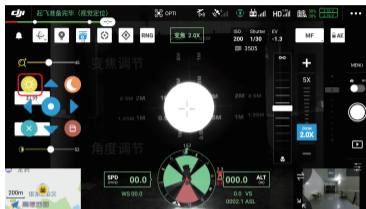


8. 进入飞行主界面后点击悬浮按钮的夜景模式，DJI H20或DJI H20T会一键调出夜景模式，且云台 I 和云台 II，实现云台同步。

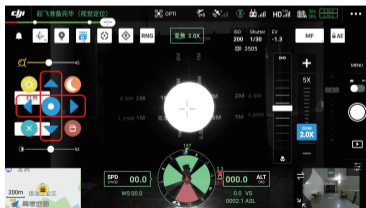


9. 点击悬浮窗开灯按钮, 可对变焦倍数以及亮度调节。

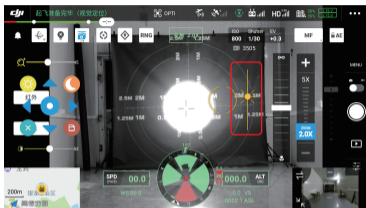
警告: 开灯前不允许直视出光口



10. 将光斑调节到合适大小, 通过航向微调或俯仰微调按钮, 使IR10光斑中心与DJI H20或DJI H20T中心点重合并点击保存, 每次最大微调 $\pm 10^\circ$



11、对目标进行观测时,如遇相机曝光过曝情况,可滑动画面上的曝光按钮进行调节。



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## 六、固件升级

了解IR10红外激光变焦云台灯固件更新情况或下载最新版本固件,请关注成至智能官网:[www.gzczzn.com](http://www.gzczzn.com)。

如遇到无人机固件更新导致红外激光变焦云台灯无法正常工作情况,请及时联系当地代理商或厂家。

成至 技术支持

[www.gzczzn.com](http://www.gzczzn.com)

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:

[service@gzczzn.com](mailto:service@gzczzn.com)

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## **I . Introduction of Infrared Laser Zoom Spotlight**

The product is suitable for criminal investigation, armed police, Marine police, squat and guard investigation, concealed evidence collection, national security, drug control, public security or border defence and other tasks.

It uses the DJI Skyport V2 universal adapter ring, no extra power, plug and play, perfect for DJI M300 RTK and M210 V2 UAVs.

## **II . Disclaimer and warning**

Thank you for purchasing our products. The content mentioned in this article is related to your safety, legal right and responsibilities. Before using this product, please read this article carefully to ensure that the product has been set up correctly. Ignoring the instructions and warnings in this article to operate may cause harm to you and your friends, may also damage the product. The right to interpret this document and all related documents shall remain with us. All updates are subject to change without prior notice. Please visit [www.gzczzn.com](http://www.gzczzn.com) for the latest product information.

## **Cautions**

1. IR10 belongs to the Class IV not visible laser. When the laser lamp is turned on, it is strictly prohibited to look directly at or observe the laser beam with optical instruments.

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2. In normal use, flammable objects are strictly prohibited within 100cm in front of the lens to prevent fire.
  3. In case of hardware problems, please return to the factory for maintenance, and do not disassemble without authorization, otherwise the adverse effects on the products will be borne by yourself.

## **NOTE**

1. The IR10 is installed in the same way as other DJI payloads. Please verify that the adapter ring is installed correctly.
2. Before the drone takes off, the IR10's power and zoom Angle will be limited to less than 50%; Power and zoom Angle can reach 100% after take off.

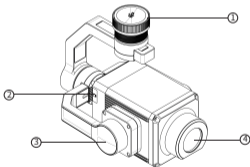
## **III. The introduction of IR10**

IR10 Infrared Laser Zoom Spotlight, It uses the latest fiber laser, emitting light power up to 12W, the maximum infrared supplementary light distance of 1000 meters. Cooperate with DJI H20/H20T and other PTZ cameras with night view mode (IR mode), the whole process can be clear filling light, the picture quality is transparent, with excellent smoke through the rain haze effect. The infrared light can not be detected by human eyes, which can realize covert detection beyond visual range.

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### III. The introduction of IR10

Through DJI SkyPortV2.0 interface, it can be directly mounted on DJI M200V2, M300RTK and other series of UAV for use, for reconnaissance, search and rescue, patrol inspection and other fields to provide users beyond the visual insight of the night. By using CZZN APP hover window +DJI Pilot APP, you can open the night view mode of DJI H20 or H20T with one click, control the switch, adjust zoom multiple, brightness and IR10 fine-tuning modes. And the IR10 can automatically follow the PTZ camera's rotation. The IR10 fuselage is fan-less and fully sealed, providing excellent waterproof and dustproof performance. It works reliably in harsh weather conditions and is the perfect partner for the DJI M300 RTK industry UAV.



- |                           |                    |
|---------------------------|--------------------|
| 1.Gimbal protection cover | 2.Memory card slot |
| 3.DJI xport Gimbal        | 4. Light export    |



## Description of parameters

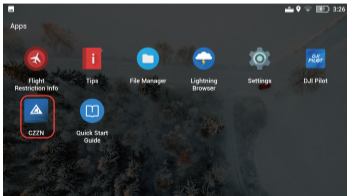
Model	IR10	
Electrical interface	DJI SKYPORT V2.0	
Size /mm	L186*W128*H158	
Weight /g	800±5	
Power /W	≤40	
Optical power /W	12±0.5	
FOV/°	0.56-45	
Light wavelength /nm	808	
Lighting distance /m	≥1000	
Safe distance /m	≥90	
Separate control Angle	Pitch Angle	-125°~+40°
	Horizontal	±320°
Gimbal I : IR10 Gimbal II : DJI H20T	Pitch Angle	-125°~+40°
	Horizontal	-25°~+45°
Gimbal I : DJI H20T Gimbal II : IR10	Pitch Angle	-125°~+40°
	Horizontal	-15°~+12°
Gimbal I : IR10 Gimbal II : DJI H20	Pitch Angle	-125°~+40°
	Horizontal	±45°
Gimbal I : DJI H20 Gimbal II : IR10	Pitch Angle	-125°~+40°
	Horizontal	±45°
Working temperature	-20°C~+50°C	

## IV. How to use the CZZN software

1. Click on this button



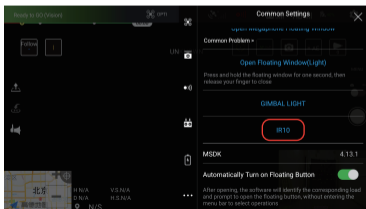
2. Click CZZN APP (The APP can be downloaded from the official website [www.gzczzn.com](http://www.gzczzn.com))



3. Enter the main interface of CZZN and click to enter the device (Steps 3-5 are required for the first use only)

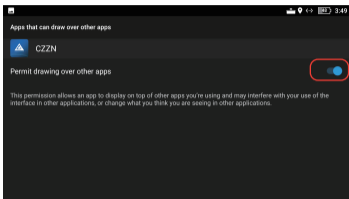


4. After entering the main interface, click General Settings, and click IR10 Floating Window.

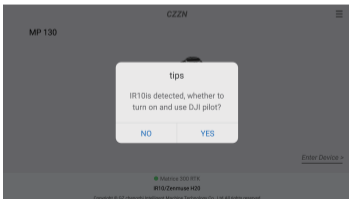


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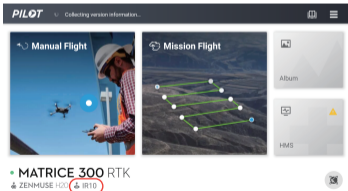
5. Click Allow to appear on other apps, then return to use



6. Click "Yes" to confirm



7. The typeface IR10 is displayed in the lower left corner, indicating that IR10 has been successfully identified. You can proceed to the next step.



8. Click the night view mode in the hover button, and DJI H20 or DJI H20T will call up the night view mode with one click. Gimbal 1 and Gimbal 2 synchronization effect.



9. Click the floating window to turn on the light button to adjust the zoom multiple and brightness.

**Warning: Do not look directly at the light outlet before turning on the light**



10. Adjust the spot to the appropriate size, use this button to merge the center of IR10 spot with the center of DJI H20 or DJI H20T and click Save. Maximum fine adjustment is  $\pm 10^\circ$  per adjustment.



11. When observing the target, in case of over-exposure of the camera, you can slide the exposure button to adjust it.



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## V. To upgrade the firmware

To learn about IR10 firmware updates or to download the latest version of the firmware, please visit the CZZN website: [www.gzcczn.com](http://www.gzcczn.com).

If IR10 cannot work properly due to the firmware update of UAV, please contact the local agent or manufacturer in time.

成至 技术支持

[www.gzcczn.com](http://www.gzcczn.com)

If you have any questions or suggestions about the instruction manual, please contact us via the following email: [service@gzcczn.com](mailto:service@gzcczn.com)

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