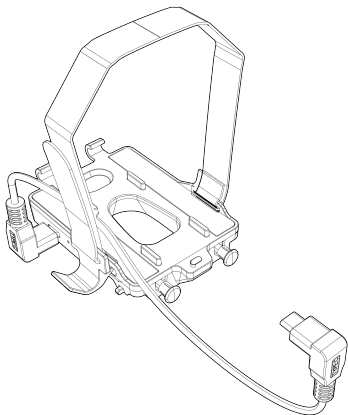


# TH2

## 经纬4抛投器

2024.8 (V1.0)

用户手册 |  
User Manual |



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## 一、免责声明与警告

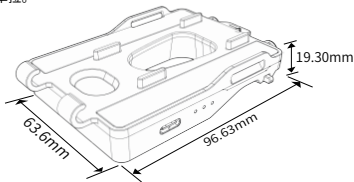
1. 感谢您购买成至智能产品。本文所提及的内容关系到您的安全以及合法权益与责任。使用本产品之前, 请仔细阅读本文以确保已对产品进行正确的设置。不遵循本文的说明与警告进行操作可能会给您和他人造成伤害。本文档及所有相关的文档最终解释权归成至智能所有。如有更新, 恕不另行通知。请访问 [www.czi.com.cn](http://www.czi.com.cn) 官方网站获取最新的产品信息。
2. TH2经纬4系列微型抛投器属于精密设备。如遇硬件问题, 请返厂联系售后服务, 切勿自行拆卸维修, 否则将失去保修、维修资格。

### 注意事项:

1. 抛投时须注意观察周围环境, 避免抛投物品造成人员误伤。
2. 抛投物品不能超过产品规定重量。
3. 吊挂抛投物品水平飞行时, 不能急刹车, 以免抛投物品与无人机桨叶发生碰撞。
4. 当抛投器双钩分别挂载300克时, 无人机悬停不能超过15分钟, 否则无人机的电机会过热。

## 二、产品概述

1. 一款经纬4系列无人机通用的2段抛投器, 通过经纬4机腹补光灯触发抛投, 通过无人机电池上的Type-C取电。
2. 抛投钩只能顺序抛投, 单钩挂载最大重量500g, 双钩挂载最大总重量600g, 可用于药物, 瓶装水投送, 也可以用于牵引绳的牵拉。



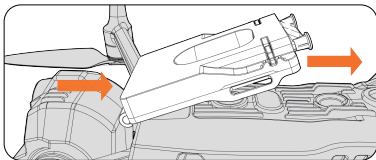
### 三、产品参数

TH2规格参数	
外形尺寸/mm (抛投前)	L:96.63 x W:63.6 x H:19.3mm
外形尺寸/mm (抛投后)	L:93.63 x W:59.0 x H:28.6mm
材质	PC+ABS, 铝合金
安装方式	快拆
总重量/g	70±2g
控制	机腹补光灯触发光敏电阻
额定电压/V	5V
额定电流/A	2A
工作环境	温度:-20°C ~+50°C 湿度:15% ~ 95%
储存环境	温度:-20°C ~+60°C 湿度:15% ~ 95%
使用寿命	≤三年
包装	软彩纸盒+PE泡棉内衬
建议抛物绳长度	1m

### 四、使用说明

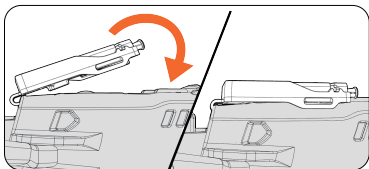
#### 1. 安装方式

- 1.1 负载微倾斜,与机腹成一个角度,将抛投器挂钩钩住云台相机的后边缘外壳。(如下所示)



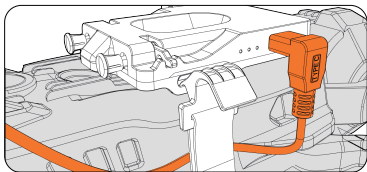
(图1)



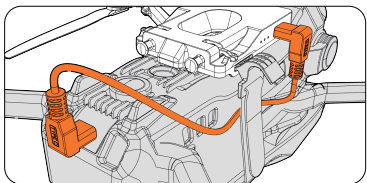


(图2)

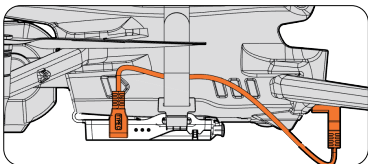
1.2 负载取电线一端插入负载侧面左侧的Type-C口。



1.3 负载用魔术贴绑带固定,注意取电线需要绑在绑带内侧,避免飞行过程取电线被无人机桨叶打到。

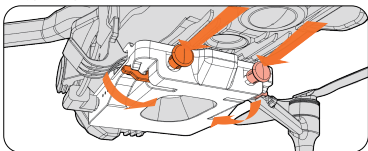


- 1.4 负载用供电线从机身侧的魔术贴下方穿过,打开电池盖之后插入尾部的电池Type-C口。

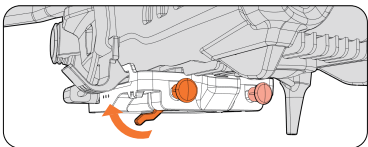


## 2.挂载

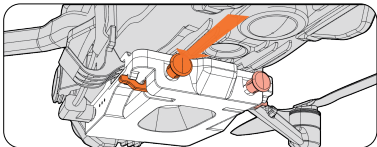
- 2.1 释放抛投钩的方法:按下手动释放抛投的按钮可释放对应抛投钩,如果抛投钩不能自动掉下来可以用手轻轻向下拨动打开抛投钩。



- 2.2 将抛投物的挂绳或吊环挂在抛投钩挂槽中,然后向上拨动抛投钩,直到听到咔哒声说明挂钩已经锁住。



2.3 手动卸载抛投物品的方法：挂载物品后，直接按对应侧按钮手动释放抛投钩即可。



### 3. 抛投功能介绍

TH2经纬4抛投器是通过检测飞机的下补光灯开启状态执行抛投动作。因此在使用抛投器时，需要将飞机的下补光灯状态设置为“关闭”后使用，避免在“自动”状态下飞机自动开启下补光灯，造成误抛投。

#### 3.1 抛投功能介绍

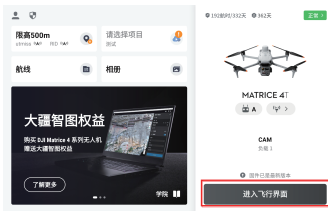
安装好TH2，挂载好物品后，补光灯“打开”可以释放一号抛投钩子，关闭再打开补光灯，可以释放二号抛投钩。

#### 3.2 飞机下补光设置“打开”和“关闭”操作。

1) 打开DJI Pilot 2 APP。



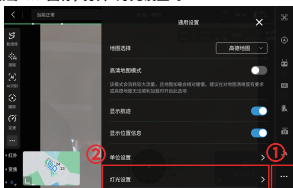
## 2) 进入飞行界面。



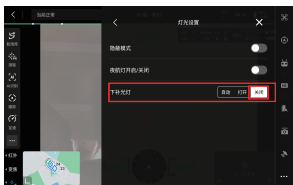
## 3) 点击右上角“...”图标。飞前检查——设置关闭下避障。



4) 再点击“...”图标，打开“灯光设置”。



5) 在“下补光灯”一栏，将状态修改为“关闭”状态，确保下补光灯不是自动控制。



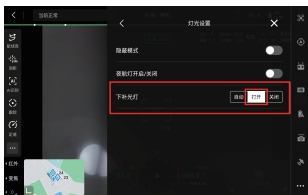
6) 安装好TH2，挂载好两个抛投物品后起飞，到达抛投目的地后点击“打开”下补光灯，TH2检测到下补光灯开启超过200ms执行抛投动作，抛投一号位物品。



7) 点击“关闭”下补光灯,关闭补光灯:抛投器无动作。



8) 再点击“打开”,重复6)7)步骤,可抛投二号位物品。



## 五、指示灯状态

### 指示灯状态

用户可根据指示灯了解TH2工作状态是否异常。

#### 1) 电源指示灯

电源指示灯上电后即点亮。

#### 2) 抛投指示灯

抛投指示灯上电后快闪3下,相应的抛投钩抛投,对应的指示灯会闪一下。

## 六、常见问题解答

故障:

开启经纬4无人机的补光灯后,TH2不抛投。

解决方法:

把TH2安装在经纬4无人机上,上电后持续开启无人机的补光灯30秒,TH2会开启自动校准功能。校准完成后,抛投指示灯1、2会常亮3秒后熄灭。

## 七、产品官网链接

详细的使用说明可以查阅电子版说明书(成至官网-->服务与支持-->下载中心-->说明书下载)或产品教学视频(成至官网-->服务与支持-->下载中心-->教学视频)。



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如你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](mailto:czzn@czi.com.cn)

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## I. Disclaimer and Warning

1. Thank you for purchasing czi products. The contents mentioned herein are related to your safety, 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 and comply with the instructions and warnings in this document may result in injury to you and others, damage to the product or other surrounding items. 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](http://www.czi.com.cn) for the latest product information.
2. The TH2 DJI MATRICE 4 enterprise Dropping system is precision equipment. In case of hardware problems, please return the device to the factory and contact the after-sales service. Don't disassemble and repair the device by yourself, or you will lose the warranty and maintenance qualification.

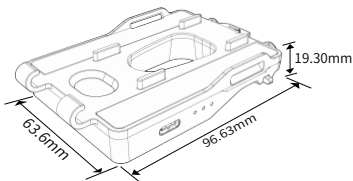
### Precautions

1. Be careful to observe the surrounding environment when throwing to avoid accidental injury to person-nel caused by throwing objects.
2. The thrown objects should not exceed the specified weight of the product.
3. When flying horizontally with the thrown objects hanging, it cannot be braked sharply to avoid collision between the thrown objects and the drone's paddles.
4. When the double hooks of the thrower are loaded with 300g respectively, the dron can't hover for more than 15 minutes, otherwise the motor of the drone will overheat.

## II. Product Overview

1. A2-stage thrower common to the MATRICE 4 series of drones, triggering the throw via the MATRICE 4 belly filler light and taking power via Type-C on the drone's battery.

2. Throwing hook can only be thrown sequentially, single hook mounted maximum weight 500g, double ditch mounted maximum total weight 600g. It can be used for medicine or bottled water delivery and two ropes pulling.



### III. Technical Parameter

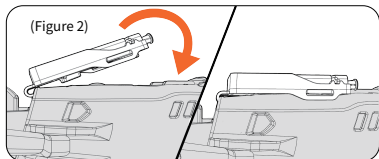
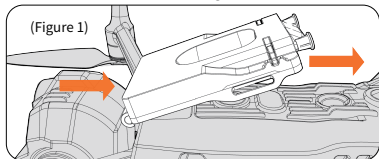
#### TH2 technical parameter

Outline dimension (before throwing)	L:96.63 x W:63.3 x H:19.3mm
Outline dimension (after throwing)	L:93.63 x W:59.0 x H:28.6mm
Material	PC+ABS, Aluminum alloy
Installation mode	Quick release
Total weight/g	70± 2g
Control	Belly fill-in light triggers photoresistor
Rated voltage / V	5V
Rated current/ A	2A
Operating environment	Temperature: -20°C ~ +50°C Humidity: 15% ~ 95%
Storage environment	Temperature: -20°C ~ +60°C Humidity: 15% ~ 95%
Service life	≤ 3 years
Packaging	Soft color carton + EPE foam lining
Recommended throw rope length	1m

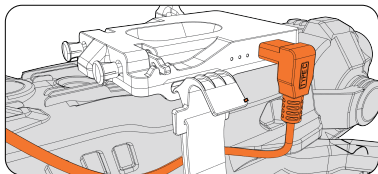
## IV. Usage Tutorial

### 1.Installation

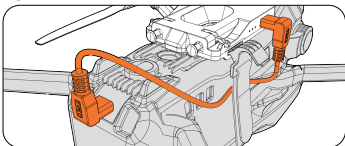
- 1.1 Tilt the load slightly at an angle to the belly of the device, and hook the dropping system onto the rear edge of the tripod head camera's housing. (As follow.)



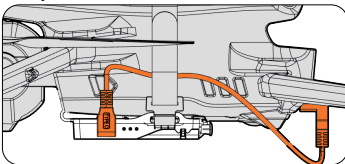
- 1.2 One of the end of the load pickup cord plugs into the Type-C port on the left side of the load side.



- 1.3 The load is fixed with Velcor straps, note that the pickup wires need to be tied to the inside of the straps to avoid the pickup wires being hit by the drone paddles during flight.

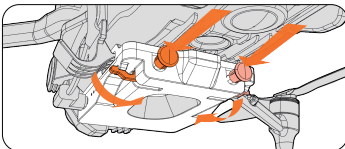


- 1.4 The power supply cable for the load passes underneath the Velcore on the side of the body and is inserted into the battery Type-C port on the end after opening the battery cover.

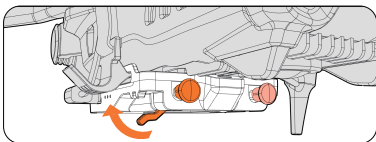


## 2.Loading

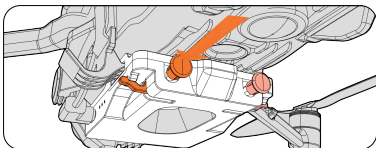
- 2.1 How to release the throwing hook: Press the buton for manual release of the throwing hook to release the corresponding hook, if the hook does not fall automatically, it could be opened by being gently pivoted downwards by hand.



- 2.2 Hang the lanyard or loop of the casting object in the casting hook upward until you hear a clicking sound that means the hook has been locked.



- 2.3 Unload the thrown object manually. After loading the object, press the manual release button at the corresponding side directly.



### 3.Introduction of throwing function

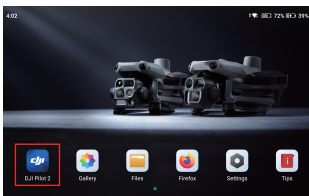
TH2 MATRICE 4 enterprise dropping system is designed to perform the throwing action by detecting the lower dill light status of the drone. Therefore, when using the TH2 MATRICE 4 enterprise dropping system, it is necessary to set the lower dill light status of the drone to “off” and then use it, so as to avoid the drone automatically turning on the lower fill light under the “automatic” status. which may cause the wrong throwing.

#### 3.1 Throwing function

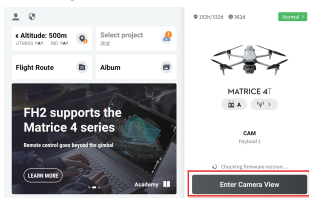
After installing the TH2 and mounting the items, the fill light is turned “on” to release the No.1 throwing hook, and is turned off and on again to release the No.2 throwing hook.

3.2 Operation of setting “on” and “off” of the lower fill light of the drone.

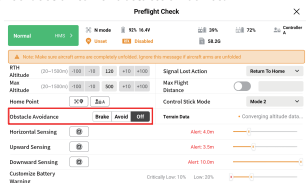
## 1) Open DJI Pilot 2 APP.



## 2) Enter the flight interface.

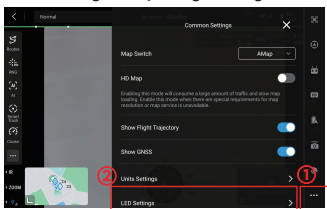


## 3) Click the "...icon in the upper right corner. Pre-flight check: set off lower obstacle avoidance.

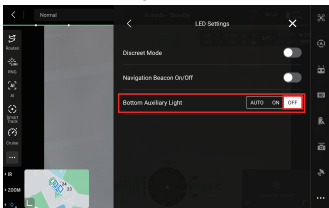




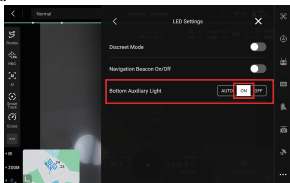
4) Click “...” icon again to open “Light Settings”.



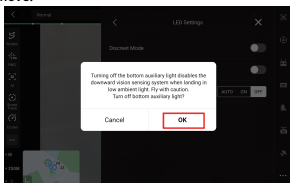
5) In the “Lower Fill Light” column, change the status to “Off” to make sure the lower fill light is not automatically controlled.



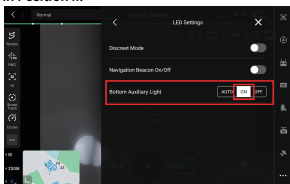
- 6) After installing the TH2 and mounting the items, the fill light is turned “on” to release the No.1 throwing hook, and is turned off and on again to release the No.2 throwing hook.



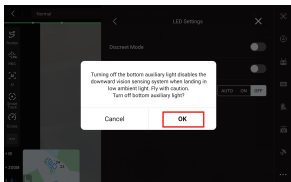
- 7) Click on “Off” to switch off the fill light: the thrower does not move.



- 8) Click “Open” again and repeat steps 6) and 7) to throw the item in Position II.







## V. Indicator Status

### Indicator status

Users can understand whether the TH2 working status is abnormal according to the indicator.

#### 1) Power indicator

The power indicator light will light up when it is powered on.

#### 2) Throwing indicator

The throwing indicator will flash 3 times when it is powered on, the corresponding throwing hook will throw and the corresponding indicator will be on.

## VI. Common Failure and Solution

### Common failure:

TH2 does not throw after turning on the fill light of the MATRICE 4.

### Solution:

Install TH2 on the MATRICE 4, it will turn on its auto-calibration function after the MATRICE 4 being powered on and the UAV's fill light being turned on for 30s.

## VII. Official Website Link

For detailed usage instructions, you can refer to the electronic version of the instruction manual (Go to official website-> Service & Support -> Download Center-> Instruction Manual Download) or the product teaching videos (Go to CZI official website-> Service & Support -> Download Centre-> Teaching Video).



czi Office Website



Please scan the QR code to view the latest user manual.

ChengZhi Support

[www.czi.com.cn](http://www.czi.com.cn)

Service Hotline: 400-008-8306

If you have any questions or suggestions regarding the manual, please contact us at [czzn@czi.com.cn](mailto:czzn@czi.com.cn)

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