

**LKTOP**

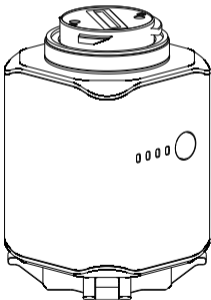
# PT-4 救援投放器

PT-4 Rescue Aerial Delivery System

用户手册

User Manual

V1.0 2025.09



## 免责声明

感谢您购买LKTOP PT-4 救援投放器(以下简称“投放器”)。在使用投放器之前,请仔细阅读本声明,一旦使用本产品,即被视为对本声明全部内容的认可和接受。请严格遵守本说明使用该产品,并务必重视注意事项。因用户使用不当投放器而造成的直接或者间接损失与伤害,立可拓概不负责。

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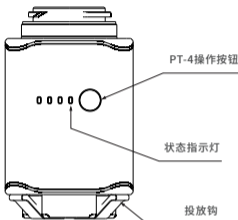
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## 注意事项

- 请在使用完毕后,将设备放入收纳箱,避免外部环境因素导致设备不能正常工作。
- 请确保转接环接口及设备表面干燥无水,再对设备进行安装。
- 使用前,请务必确认转接环已完全卡入飞行器云台支架上。
- 挂载物品重量应根据飞机承重能力为准。
- 挂载物品时请确保投放钩已完全处于挂载状态下再按下操作按钮。
- 请仔细阅读注意事项。

## PT-4 救援投放器介绍

PT-4 救援投放器，自重 $210 \pm 5g$ ，25公斤超高投放载重，单次飞行可完成四次投放任务，通过DJI SkyPort V2.0 接口可直接挂载在大疆M300 RTK、M350 RTK、M400无人机上使用，应用于应急救援、救生圈投放、应急物资投放等工作。



## 产品参数

型号	PT-4
尺寸	56*56*105.1mm
重量	200±5g
材质	塑料+铝合金6061 阳极氧化
功能	1、可同时挂载4个物品并依次投放 2、各个挂钩挂载状态识别，状态指示灯显示上料位置 3、可锁定投放器、防止误触 4、单钩投放最大挂载10KG，整机投放最大挂载25KG （实际负载重量以无人机云台安装架载重能力为准） 5、异常信息显示
投放器控制方式	DJI Pilot2、PSDK信号 支持手动按投放器上按键控制和遥控器控制
一键复位	支持长按投放器上按键让投放器复位

控制距离	与飞机控制一致
工作温度	0°C-50°C
适配机型	M350 RTK、M300 RTK、Matrice 400

## 连接方式

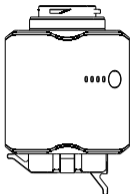
PT-4支持多种接口及协议连接使用，确认连接无误后上电将自动识别当前连接模式。具体配置步骤及参数如下：

①打开飞行器电源，待飞行器开机并识别到设备后，遥控器DJI Pilot2应用主界面显示图标（不同飞行器显示可能存在差异）。

## PT-4救援投放器挂载和软件教程

状态指示灯灯光状态说明：

灯光状态	说明
所有绿灯逐个点亮	固件升级中
所有绿灯快闪	设备开机正常并处于初始位置
所有红灯快闪	设备正在初始化中
所有红灯慢闪(间隔1秒)	设备固件异常
所有红灯常亮	设备出现故障，详情及处理方法请参考异常处理
指定位置绿灯快闪	对应位置为可挂载状态
指定位置绿灯常亮	对应位置为已挂载状态
指定位置灯全灭	对应位置为空载状态



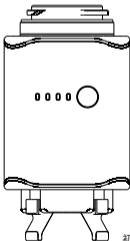
待挂载状态



挂载状态

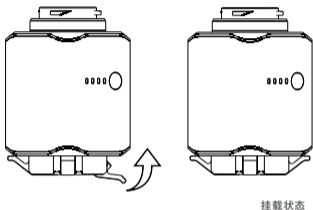
### 挂载操作

- 1、给PT-4救援投放器上电后,如果所有状态指示灯全部亮红灯,则需要长按按键3秒初始化设备,挂钩如下图:



初始化后的状态

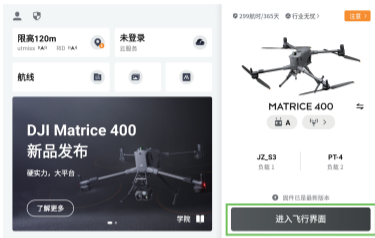
2、单击PT-4救援投放器按键，按键左侧状态指示灯绿灯快闪则表示对应位置的挂钩可以开始挂载，使挂钩完全处于挂载状态后再次单击投放器按键，即完成该挂钩的挂载。如下图：



3、绿灯快闪切换为绿灯常亮则表示该位置挂载完成，如果变成绿灯熄灭则表示该位置未装载成功。在装载过程中出现结构卡住设备将自动尝试恢复，如果尝试失败则主机所有红灯常亮，这时需要清除障碍物后重新初始化设备。

## Pilot2软件操作

1、点击DJI Pilot2 进入主界面，再次点击右下角进入飞行界面，右下角显示PSDK说明PT-4负载识别成功。



2、点击PSDK切换到PT-4负载界面。

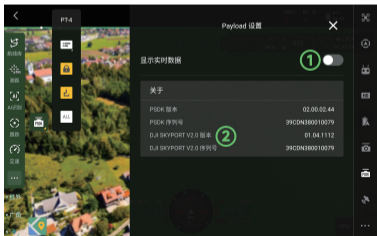




① Pilot2 PT-4负载信息悬浮窗    ② 解锁/锁定    ③ 投放    ④ 菜单功能

3、点击“解锁/锁定”按钮解锁后，点击“抛投”按钮即可进行投放，如不投放应及时锁定防止误触投放。

4、点击“功能菜单”按钮可弹出功能菜单界面。



① Pilot2 PT-4负载信息悬浮窗

② 在Pilot2 PT-4负载信息悬浮窗显示负载固件、SN码信息

## Disclaimers

Thank you for purchasing the PT-4 Rescue Aerial Delivery System (hereinafter referred to as the "Aerial Delivery System"). Before using the advertising device, please read this statement carefully. Once using this product, it is considered as recognition and acceptance of all the contents of this statement. Please strictly follow these instructions when using this product, and be sure to pay attention to the precautions. LKTOP is not responsible for any direct or indirect losses or injuries caused by improper use of the dispenser by the user.

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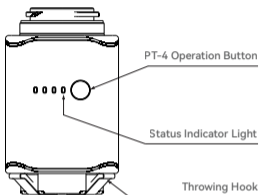
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## Precautions

- After use, please place the device in the storage box to avoid external environmental factors that may cause the device to malfunction.
- Please ensure that the interface of the adapter ring and the surface of the device are dry and free of water before installing the equipment.
- Before use, please make sure that the adapter ring is fully inserted into the aircraft gimbal bracket.
- The weight of the mounted items should be based on the aircraft's load-bearing capacity.
- When attaching items, please ensure that the placement hook is fully attached before pressing the operation button.
- Please read the precautions carefully.

## Introduction to PT-4 Rescue Aerial Delivery System

PT-4 Rescue Aerial Delivery System, with a self weight of  $210 \pm 5g$  and a super high payload of 25kg, can complete four delivery tasks in a single flight. It can be directly mounted on DJI SkyPort V2.0 interface and used on DJI M300 RTK, M350 RTK, M400 drones for emergency rescue, lifebuoy delivery, emergency material delivery and other work.



## Product parameters

Model number	PT-4
Sizes	56*56*105.1mm
Weights	200±5g
Material	Plastic + Aluminum Alloy 6061, Anodized
Functionality	<ol style="list-style-type: none"> <li>1. Can load 4 items at the same time and throw them in sequence.</li> <li>2. Each hook load status identification, Status indicator loading position</li> <li>3. Lockable thrower to prevent accidental contact.</li> <li>4. Maximum loading of single hook throwing is 10KG, Maximum loading of whole aircraft throwing is 25KG. (Note: Actual load is limited by the gimbal mount's capacity.)</li> <li>5. Display of abnormal information</li> </ol>
Control method	DJI Pilot2, PSDK signal Supporting both manual button operation on the device and remote controller.
One-touch Reset	Simply press and hold the button on the dispenser.

Control distance	Consistent with aircraft controls
Operating temperature	0°C-50°C
Compatible models	M350 RTK, M300 RTK, Matrice 400

## Connections

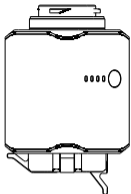
PT-4 supports a variety of interfaces and protocols to connect to the use of the confirmation of the connection is correct, the power will automatically recognize the current connection mode. The specific configuration steps and parameters are as follows:

① Turn on the power of the aircraft, wait for the aircraft to turn on and recognize the device, and the DJI Pilot2 remote control application will display the icon on the main interface (there may be differences in display for different aircraft).

## System mounting and software tutorials

Status indicator light status description:

Light Status	Illustrate
All the green lights come on one by one.	Firmware upgrade in progress
All green lights are fast flashing	Unit powers up properly and is in the initial position
All red lights are fast flashing	Device is initializing
All red lights flash slowly (1 second intervals)	Device firmware anomaly
All red lights are always on.	Please refer to Exception Handling for details of equipment malfunctions and how to handle them
Rapidly blinking green light at designated position	The corresponding position is one that can be mounted Status
Green light is always on at the specified position	The corresponding position is already installed status
Designated position lights all go out	The corresponding position is the unloaded State



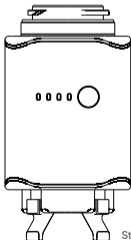
Unmounted state



Mount status

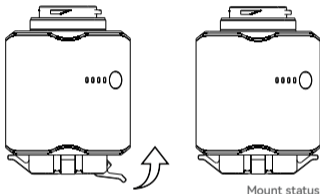
### Mount operation

1. After powering on the PT-4 Rescue Aerial Delivery System, if all status indicator lights are red, press and hold the button for 3 seconds to initialize the device. The hook is shown in the following figure:



Status after initialization

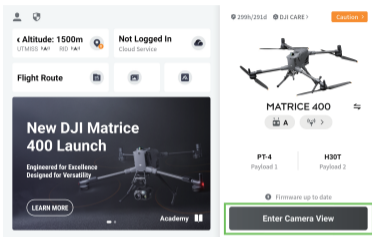
2. click the PT-4 thrower button, the left side of the button Status indicator flashing green light indicates that the corresponding position of the hook can begin to mount, so that the hook is completely in the mounting state, click the thrower button again, that is, to complete the mounting of the hook. The following picture shows the hooks are ready to be mounted:



3, the green light flashing switch to green light is always on indicates that the location of the mounting is complete, if it becomes green light off indicates that the location is not loaded successfully. In the loading process structure stuck equipment will automatically try to recover, if the attempt fails to host all the red light is always on, then you need to clear the obstacles to re-initialize the device.

## Pilot2 Software Operation

1. Click DJI Pilot2 to enter the main interface, click the lower right corner again to enter the flight interface, the lower right corner shows PSDK indicating PT-4 load recognition success.



2. Click PSDK to switch to the PT-4 load interface.

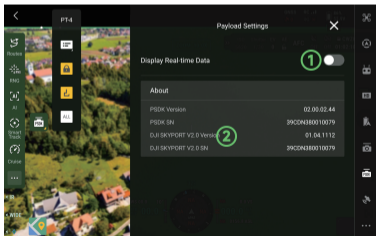




- ① Pilot2 PT-4 Load Information Hover Window      ② Unlock/Lock  
 ③ Throwing      ④ Menu Functions

3. Click on the "unlock / lock" button to unlock, click on the "throw" button to throw, such as not throwing should be locked in time to prevent accidental throw.

4. Click the "Function Menu" button to pop up the function menu interface.



- ① Pilot2 PT-4 Load Information Hover Window  
 ② Display the load firmware and SN code information in the Pilot2 PT-4 load information hover window.

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