

LKTOP

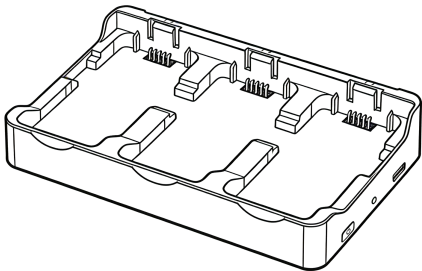
Neo 2双向充电管家

Neo 2 Two-Way Charging Hub

User Manual

使用说明

V1.0 2026.01



免责声明

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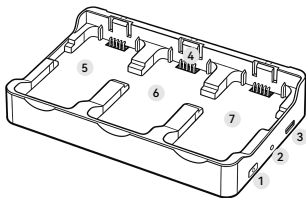
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注意事项

- 使用本产品之前,请仔细阅读并遵循本文及本产品相关的所有安全与合规操作指引。
- 请勿在阳光直射、雨淋或者潮湿环境中使用电源。
- 充电管家应远离热源、高压、水、可燃性气体、腐蚀剂等危险物品。
- 若遇火警,请正确使用干粉灭火器进行灭火,使用液体类灭火器可能会有触电危险。
- 严禁在雷电及雷雨天气中使用电源。
- 保持充电管家内部干燥,切勿进入水、油等液体。
- 进行充电时请勿堵住充电器通风口,保持通风和散热。
- 充电时,请远离可燃物,切勿将充电管家或者电池置于地毯上充电。
- 使用时请将充电管家平稳放置,并注意绝缘及防火。
- 请勿用手或其他物体触碰电池接口的金属端子。若金属端子附着异物,请在电源关闭状态用干布擦拭干净。
- 确保将电池接口对准充电管家接口后轻按插入,否则可能导致电池损坏。
- 务必于合适的环境温度使用充电管家(建议5°C至40°C)。
- 移动或搬运充电管家时,不要拉扯充电管家电源线。
- 使用前,请确保电池接口、充电管家接口、电池表面干燥无水,再将电池连接充电管家。
- 禁止以任何方式拆解或损坏充电管家。

产品介绍

LKTOP Neo 2双向充电管家是一款集充电、存储、收纳、放电功能为一体的充电管家，可同时为三块智能飞行电池充电，配合智能飞行电池也可作为充电宝，为遥控器或其他外部设备充电，为无人机用户提供更快更高效的充电体验。



- ① 功能键
- ② 模式指示灯
- ③ USB-C口
- ④ 电池连接器
- ⑤ CH1插槽
- ⑥ CH2插槽
- ⑦ CH3插槽

功能: 操作描述

电量显示: 短按功能键电池状态指示灯显示电池电量

100%满充模式: 充电过程中默认开启100%模式，模式指示灯默认绿灯
注:在USB-C接口断电后模式默认回到100%模式。

60%存储模式: 充电过程中长按功能键2秒以上，模式指示灯显示黄灯
注:在60%模式下，电量充至60%左右充电管家自动停止充电；
当电池初始电量 $\geq 60\%$ 时将不会进行充电。

95%快充模式: 充电过程中长按功能键2秒以上，到60%存储模式后，再短按一次，进入95%快充模式，模式指示灯显示蓝灯，切换模式后5秒内无其他操作则自动选择当前模式
注:开启95%模式后，电量充至95%充电管家自动停止充电。

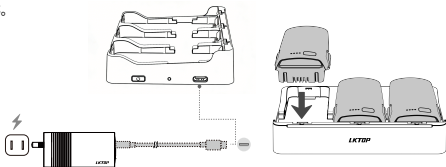
充电宝模式: 将电池插入充电管家短按再长按功能键2秒以上 (DJI智能飞行电池开机方式) 进入充电宝模式

充电器功率<30W	按照电量顺序从高往低依次充电
30W<充电器功率≤45W	先将中等电量电池充至与最高电量电池一致， 两块电池再同时并充
充电器功率>45W	可以同时为三块电池充电，根据电池电量，先将电量最低的一块电池充到中等的电池相同，再将两块电池充到与电量最高的电池相同，三块电池同时并充直至充电结束
模式指示灯状态描述：	黄灯常亮：充电管家处于空闲状态 黄灯呼吸：充电管家60%存储模式充电中 绿灯常亮：所有电池电量充满或电池正给外部设备供电 绿灯呼吸：充电管家100%满充模式充电中 蓝灯呼吸：充电管家95%快充模式充电中

产品使用说明

100%满充模式充电步骤

- 1.将DJI Neo 2智能飞行电池插入到LKTOP Neo 2双向充电管家的电池接口。
- 2.将充电器连接至交流电源(100V-240V,50Hz/60Hz)，再将LKTOP Neo 2双向充电管家USB-C口连接至充电器。
- 3.充电状态下，LKTOP Neo 2双向充电管家电量指示灯会循环闪烁，用于指示当前电池电量。
- 4.待电池充满后(4颗指示灯常亮)，可根据需求及时取出电池或者放置于充电管家内收纳保存。

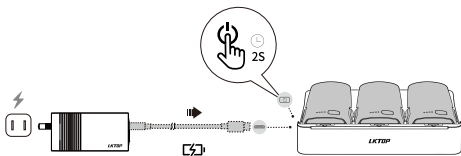


以LKTOP Neo 2双向充电管家+LKTOP 67W氮化镓快速充电器为例

- ⚠ USB-C接口断电后模式默认回到100%模式。
- 管家充电请使用USB-C支持PD协议65W和100W的充电头，请勿使用A口充电器给管家充电。

95%快充模式充电步骤

- 1.将DJI Neo 2智能飞行电池插入到LKTOP Neo 2双向充电管家的电池接口。
- 2.将充电器连接至交流电源(100V-240V,50Hz/60Hz),再将LKTOP Neo 2双向充电管家USB-C口连接至充电器。
- 3.在充电状态下,长按按键2S以上,到60%存储模式后,再短按按键切换95%快充模式,对应模式蓝灯亮,进入快充充电模式。
- 4.快充模式充满电后,请及时拔出相应设备。

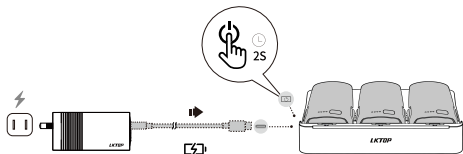


以LKTOP Neo 2双向充电管家+LKTOP 67W氮化镓快速充电器为例

- ⚠ ·开启95%模式后,电量充至95%充电管家自动停止充电。
- 管家充电请使用USB-C支持PD协议65W和100W的充电头,请勿使用A口充电器给管家充电。

60%存储模式充电步骤

- 1.将DJI Neo 2智能飞行电池插入到LKTOP Neo 2双向充电管家的电池接口。
- 2.将充电器连接至交流电源(100V-240V,50Hz/60Hz),再将LKTOP Neo 2双向充电管家USB-C口连接至充电器。
- 3.在充电状态下,长按按键2S以上,各通道三颗LED灯(由左至右)全亮且闪烁3次,模式指示灯显示黄色,进入存储充电模式。
- 4.存储模式充满电后(3颗LED指示灯常亮),请及时拔出相应设备。

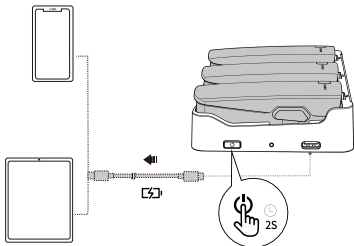


以LKTOP Neo 2双向充电管家+LKTOP 67W氮化镓快速充电器为例

- ⚠ · 当电量大于60%不进行充电；
- 充电管家断电后恢复快充充电模式，使用存储模式需再次长按功能按键；
- 管家充电请使用USB-C支持PD协议65W和100W的充电头，请勿使用A口充电器给管家充电。

放电步骤 (充电宝模式)

1. 将DJI Neo 2智能飞行电池插入LKTOP Neo 2双向充电管家CH1/CH2/CH3插槽。
2. 连接外部设备(如手机、遥控器)至充电管家USB-C接口。
3. 短按再长按功能键2秒后开始C口对外放电。(无人机电池开机方式一致)
4. 等待设备充满电后，请及时拔出电池、遥控器和其他外接设备。



- ⚠ 放电状态下电池将按照剩余电量的由低到高依次进行放电；
若电池的剩余电量 $\leq 7\%$ ，则该电池无法对外放电(为外部设备供电)。

产品规格参数

产品名称：	LKTOP Neo 2双向充电管家
产品型号：	NC137
输入(USB-C)：	5V \equiv 3A, 9V \equiv 3A, 12V \equiv 3A, 15V \equiv 5A, 20V \equiv 3.75A 75W Max
输出(USB-C)：	5V \equiv 2A, 9V \equiv 2A 18W Max
适用电池：	DJI Neo 2智能飞行电池(BWXEN2-1606-7.16)
推荐充电器：	建议使用LKTOP 65W便携充电器 LKTOP 67W氮化镓快速充电器 LKTOP 100W 无人机充电器 LKTOP 100W 车载充电器 LKTOP 130W 车载充电器 LKTOP POWER K1S LKTOP POWER K1 DJI 100W 桌面充电器 DJI 65W 车载充电器 DJI 65W 便携充电器 或其他65W/100W PD协议不降功率的USB-C口充电器
充电环境温度：	5°C~40°C
产品尺寸：	128.83 x 83.78 x 23.5mm
包装尺寸：	133 x 89 x 29mm
产品重量：	115g \pm 5g(不包含线材重量)

*测试数据均为实验环境下(室温25°C情况下)测得，仅供参考。

PS:本页面所示重量/尺寸信息均为手工测量，有一定误差，属于正常现象，仅供参考。

Disclaimers

Thank you for purchasing the LKTOP Neo 2 Two-Way Charging Hub(hereinafter referred to as the "Charging Hub"). Before using the charging hub, please read this statement carefully. Once you use this product, it is deemed that you acknowledge and accept all the contents of this statement. Please strictly follow the instructions for using this product and pay close attention to the precautions. LKTOP is not responsible for any direct or indirect losses and injuries caused by improper use of the charging hub by the user.

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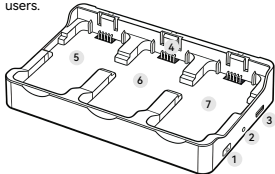
There may be differences in disclaimers for different language versions. The Chinese version shall prevail in China, and the English version shall prevail in other regions.

Product Usage Precautions

- Before using this product, please read and follow all safety and compliance operation instructions in this document and related to this product.
- Do not use the charging hub in direct sunlight, rain, or damp environments.
- Keep the charging hub away from heat sources, high voltage, water, flammable gases, corrosive agents, and other hazardous materials.
- In case of a fire, use a dry chemical fire extinguisher correctly to put out the fire. Using a liquid fire extinguisher may pose an electrocution hazard.
- Do not use the charging hub during thunderstorms or rainy weather.
- Keep the inside of the charging hub dry and prevent the entry of water, oil, or other liquids.
- Do not block the ventilation holes of the charging hub during charging to ensure proper ventilation and heat dissipation.
- Keep away from flammable materials during charging and do not charge the charging hub or batteries on carpets.
- Place the charging hub stably when in use and pay attention to insulation and fire prevention.
- Do not touch the metal terminals of the battery interface with your hands or other objects. If any foreign matter is attached to the metal terminals, wipe them clean with a dry cloth while the power is off.
- Ensure that the battery interface is properly aligned with the charging hub interface before gently pressing it in. Otherwise, it may cause battery damage.
- Use the charging hub in a suitable ambient temperature (recommended between 5°C and 40°C).
- When moving or transporting the charging hub, do not pull on the power cord.
- Before use, ensure that the battery interface, charging hub interface, and battery surface are dry and free of water before connecting the battery to the charging hub.
- Do not disassemble or damage the charging hub in any way.

Product Introduction

The LKTOP Neo 2 Two-Way Charging Hub is an all-in-one charging solution integrating charging, storage, organization and discharging functions. It can simultaneously charge three intelligent flight batteries, and when paired with these batteries, it also serves as a power bank to charge remote controllers or other external devices, delivering faster and more efficient charging for drone users.



- ① Function Button
- ② Mode Indicator Light
- ③ USB-C Port
- ④ Battery Connector
- ⑤ CH1 Slot
- ⑥ CH2 Slot
- ⑦ CH3 Slot

Features: Operation Instructions

Power Display: Briefly press the function key, and the battery status indicator will display the current battery level.

100% Full Charge Mode: The 100% mode is enabled by default during charging, and the mode indicator light stays green by default.
 Note: The mode will default back to the 100% mode after the USB-C port is powered off.

60% Storage Mode: Press and hold the function button for more than 2 seconds during charging, and the mode indicator will turn yellow.
 Note: In 60% mode, the charging hub will automatically stop charging when the battery level reaches approximately 60%;
 If the initial battery level is $\geq 60\%$, charging will not start.

95% Fast Charge Mode: Press and hold the function button for more than 2 seconds during charging to enter the 60% storage mode; then press the button briefly once to switch to the 95% fast-charging mode, with the mode indicator turning blue. If no further operation is performed within 5 seconds after mode switching, the current mode will be automatically confirmed.
 Note: After activating the 95% mode, charging will automatically stop when the battery level reaches 95%.

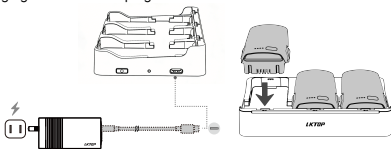
Power Bank Mode:	Insert the battery into the charging hub, then press the function button briefly and hold it for more than 2 seconds (DJI Intelligent Flight Battery power-on method) to enter power bank mode.
Charger Power < 30W:	Charge in descending order of remaining battery power.
30W < Charger Power ≤ 45W:	First charge the battery with medium power to the same level as the battery with the highest power, then charge the two batteries in parallel simultaneously.
Charger Power > 45W:	It can charge three batteries at the same time. According to the battery power level, first charge the battery with the lowest power to the same level as the battery with medium power, then charge these two batteries to the same level as the battery with the highest power, and finally charge all three batteries in parallel simultaneously until the charging process is completed.
Description of Mode Indicator Status:	<p>Solid yellow light: The charging hub is in idle status.</p> <p>Breathing yellow light: Charging Manager 60% Storage Mode Charging</p> <p>Solid green light: All batteries are fully charged or the batteries are supplying power to external devices.</p> <p>Breathing green light: Charging Manager is charging in 100% full charge mode.</p> <p>Breathing blue light: TCharging Manager 95% Fast Charge Mode in Progress</p>

Product User Manual

100% Full Charging Mode Steps

1. Insert the DJI Neo 2 intelligent flight batteries into the battery interface of the LKTOP Neo 2 Two-Way Charging Hub.
2. Connect the charger to an AC power source (100-240V, 50/60Hz), and then connect the USB-C port of the LKTOP Neo 2 Two-Way Charging Hub to the charger.
3. During the charging process, the status indicator lights of the LKTOP Neo 2 Two-Way Charging Hub will flash in a cycle to indicate the current battery charge level.

4. Once the battery is fully charged (All 4 indicator lights are constantly lit.), you can remove the battery in a timely manner as needed or store it within the charging hub for safekeeping.

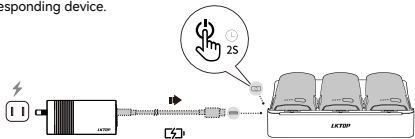


Taking the LKTOP Neo 2 Two-Way Charging Hub and the LKTOP 67W GaN Fast Charger as an Example

- ⚠ After the USB-C port is powered off, the mode will revert to 100% mode by default.
- When charging the hub, please use a USB-C charger that supports the PD protocol with 65W and 100W. Do not use a USB-A port charger to charge the hub.

95% Fast Charge Mode Steps

1. Insert the DJI Neo 2 intelligent flight batteries into the battery interface of the LKTOP Neo 2 Two-Way Charging Hub.
2. Connect the charger to an AC power source (100-240V, 50/60Hz), and then connect the USB-C port of the LKTOP Neo 2 Two-Way Charging Hub to the charger.
3. During charging, press and hold the button for over 2 seconds to enter the 60% Storage Mode. Then briefly press the button again to switch to the 95% Fast Charge Mode. The corresponding blue indicator light will turn on, confirming entry into fast charging mode.
4. After the fast charging process is completed, promptly disconnect the corresponding device.

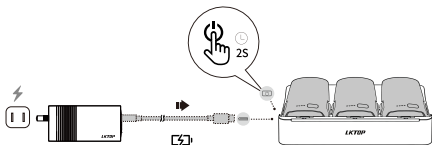


Taking the LKTOP Neo 2 Two-Way Charging Hub and the LKTOP 67W GaN Fast Charger as an Example

- ⚠ After the 95% mode is enabled, the charging manager will automatically stop charging when the battery level reaches 95%.
- When charging the hub, please use a USB-C charger that supports the PD protocol with 65W and 100W. Do not use a USB-A port charger to charge the hub.

60% Storage Mode Steps

1. Insert the DJI Neo 2 intelligent flight batteries into the battery interface of the LKTOP Neo 2 Two-Way Charging Hub.
2. Connect the charger to an AC power source (100-240V, 50/60Hz), and then connect the USB-C port of the LKTOP Neo 2 Two-Way Charging Hub to the charger.
3. While charging, press and hold the button for more than 2 seconds. All three LED lights on each channel (from left to right) will light up and flash three times, entering the storage mode.
4. After the storage mode is fully charged (when the three LED indicator lights are solid), please promptly remove the corresponding device.

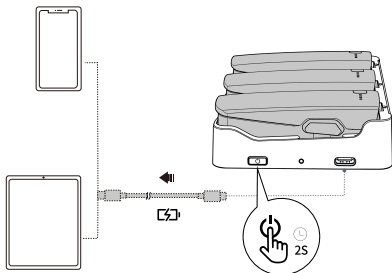


Taking the LKTOP Neo 2 Two-Way Charging Hub and the LKTOP 67W GaN Fast Charger as an Example

- ⚠
- No charging when the power is greater than 60%.
 - The charging hub will resume fast charging mode after a power outage.
 - When charging the hub, please use a USB-C charger that supports the PD protocol with 65W and 100W. Do not use a USB-A port charger to charge the hub.

Discharging Steps (Power Bank Mode)

1. Insert the DJI Neo 2 intelligent flight batteries into the CH1/CH2/CH3 slot of the LKTOP Neo 2 Two-Way Charging Hub.
2. Connect external devices (e.g. mobile phone, remote controller) to the USB-C port of the Charging Hub.
3. Short press and then long press the function button for 2 seconds to start the C port external discharge. (Same as DJI battery powerup method)
4. Wait for the device to be fully charged, please pull out the battery, remote controller and other external devices in time.



- ⚠ In a discharging state, the battery will discharge from low to high according to the remaining charge.
- If the remaining battery level is less than 7%, the battery cannot discharge to external devices.

Product Specification

Product Name:	LKTOP Neo Two-Way Charging Hub
Product Model:	NC137
Input (USB-C):	5V \equiv 3A, 9V \equiv 3A, 12V \equiv 3A, 15V \equiv 5A, 20V \equiv 3.75A 75W Max
Output (USB-C):	5V \equiv 2A, 9V \equiv 2A 18W Max
Applicable Battery:	DJI Neo 2 Intelligent Flight Battery (BW Xen2-1606-7.16)
Recommended Charger:	It is recommended to use LKTOP 65W Portable Charger LKTOP 67W GaN Fast Charger LKTOP 100W Drone Charger LKTOP 100W Car Charger LKTOP 130W Car Charger LKTOP POWER K1S LKTOP POWER K1 DJI 100W Desktop Charger DJI 65W Car Charger DJI 65W Portable Charger or other 65W/100W PD protocol USB-C chargers without power reduction
Charging Ambient Temperature:	5°C~40°C
Product Size:	128.83 x 83.78 x 23.5mm
Package Size:	133 x 89 x 29mm
Product Weight :	115g \pm 5g (Excluding cable weight)

*The test data are measured under the experimental environment (at room temperature of 25°C) and are for reference only.

PS: The weight/size information shown on this page are all manual measurements, there is a certain degree of error, is a normal phenomenon, for reference only.

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