

# NITECORE®

*KEEP INNOVATING*

## DPE1

无人机电源扩展模块  
Drone Power Expander



# (English) DPE1 User Manual

## Brief Introduction

Specially designed for DJI Inspire 2, the DPE1 is a drone power expander to carry batteries twice as the conventional way of flying a drone and an innovative power solution to maximize its flying runtime. It contains one pair of Battery Holders which have 2 Battery Slots each and are set on both sides of the drone. It enables the drone to be inserted with 2 x TB55 / 4 x TB50 / 2 x TB50 + 2 x TB55 batteries at one time. The product is CNC machined with light aluminum alloy with a total weight of only 203g (7.16oz).

## Specifications

Compatible Batteries: TB50, TB55 (For Main Battery Slots only)

Dimensions: 135mm×135mm×41.3mm  
(5.31"×5.31"×1.63") (For one Battery Holder)

Weight: 203g (7.16oz) (For both Battery Holders)

Accessories: Battery Fasteners

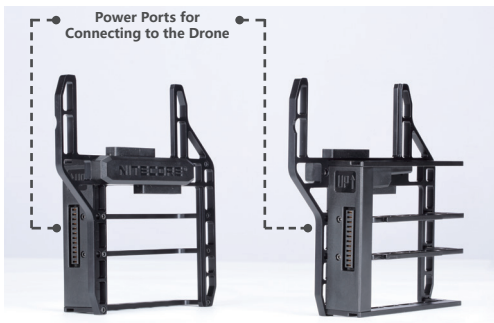
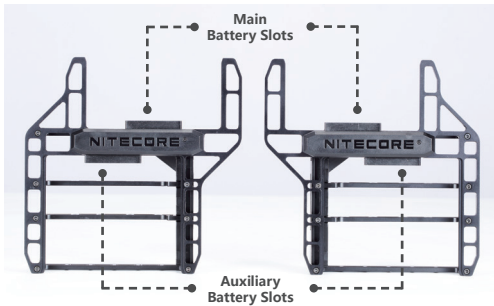
Battery Combination	2 x TB50 Batteries	4 x TB50 Batteries	2 x TB55 Batteries	2 x TB55 + 2 x TB50 Batteries
Flying Runtime	21min	30min	31min	37min

**Note:** The stated data is measured under laboratory conditions. The data may vary in real world use due to different battery usage or environmental conditions.

## Installing Instructions

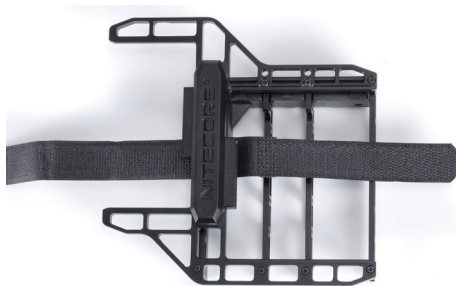
The DPE1 contains one pair of Battery Holders which is set on both sides of the drone. The "↑UP" label on each Battery Holder indicates its installing direction. As illustrated, each Battery Holder consists of a Main Battery Slot on the upper part and an Auxiliary Battery Slot on the lower part with a power port for connecting to the drone.



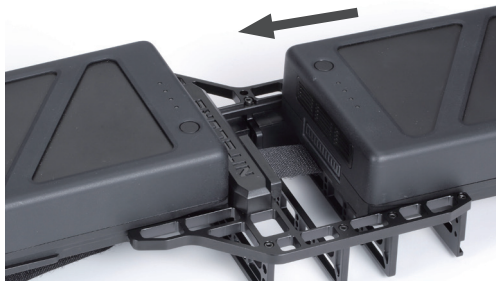
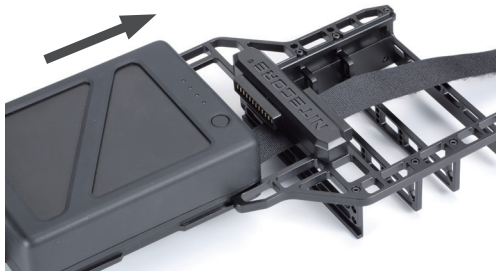


### Battery Installation to the DPE1

1. As illustrated, insert the battery fastener through the DPE1 with the loop side down. (See the picture below)



2. As illustrated, insert the batteries into the Main Battery Slot and the Auxiliary Battery Slot respectively. Please ensure that the batteries and the DPE1 are well connected via the power port.



-5-

3. Tighten the battery fastener.



-6-



4. Install the batteries to the other Battery Holder with the same procedures.

**Note:**

- (1) The TB55 batteries are restricted to being installed to the Main Battery Slots.
- (2) Installing only one TB55 battery to the Battery Holder is also available for normal use.
- (3) It is recommended to install the batteries with fewer charge cycles into the Main Battery Slots.
- (4) If two batteries with different battery levels are installed, please install the battery with higher battery level to the Main Battery Slot.

**Mounting the DPE1 to the Drone**

- 1. Unlock the drone to Landing Mode and shut down the drone before dismounting the battery pair.



**Travel Mode**

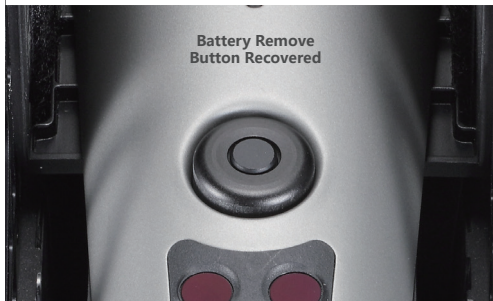


**Landing Mode**

2. As illustrated, insert the DPE1 into the battery slots located on both sides of the drone. (Note: Please insert the DPE1 according to the "↑UP" labels on each Battery Holder which indicates its installing direction and left/right location.)



3. The recovery of the Battery Remove Button will indicate that the installation of the DPE1 is completed. (See the picture below)





4. After the installation, short press the Power Button on the drone once and then hold the Power Button for more than 5 seconds to activate all the batteries. The Power LED on each battery will be turned on when successfully activated. Please check if all Power LEDs on the batteries are turned on. Otherwise turn off the drone and reactivate the batteries again.

## Warranty Details

Our authorized dealers and distributors are responsible for warranty service. Should any problem covered under warranty occurs, customers can contact their dealers or distributors in regards to their warranty claims, as long as the product was purchased from an authorized dealer or distributor. NITECORE's Warranty is provided only for products purchased from an authorized source. This applies to all NITECORE products. Any DOA / defective product can be exchanged for a replacement through a local distributor/dealer within the 15 days of purchase. After 15 days, all defective / malfunctioning NITECORE® products can be repaired free of charge for a period of 12 months (1 year) from the date of purchase. Beyond 12 months (1 year), a limited warranty applies, covering the cost of labor and maintenance, but not the cost of accessories or replacement parts.

The warranty is nullified if the product(s) is/are:

1. broken down, reconstructed and/or modified by unauthorized parties
2. damaged from wrong operations

For the latest information on NITECORE® products and services, please contact a local NITECORE® distributor or send an email to [service@nitecore.com](mailto:service@nitecore.com).

- ※ The trademarks and product images specified herein this user manual are for reference purpose only. The copyright belongs to their lawful holders.
- ※ All images, text and statements specified herein this user manual are for reference purpose only. Should any discrepancy occur between this manual and information specified on [www.nitecore.com](http://www.nitecore.com), information on our official website shall prevail. SYSMAX Innovations Co., Ltd. reserves the rights to interpret and amend the content of this document at any time without prior notice.

## (简体中文) DPE1 说明书

### 产品概述

DPE1 是一套专为大疆 悟 Inspire 2 无人机设计的电源扩展模块。其作用为扩展无人机电池安装数量，以增加飞行停留时间。本品分为左右两部分支架，分别装配在无人机两侧的电池仓上，每侧支架设有两个电池槽，让无人机能同时使用 2 块 TB55 大容量电池或者 4 块电池（4×TB50 或 2×TB50+2×TB55）。支架采用轻质铝合金，经由 CNC 工艺制造，总重量仅 203 克。

### 相关参数

适用电池型号：TB50、TB55（仅限安装于主电池槽）

尺寸：135mm×135mm×41.3mm  
(5.31" × 5.31" × 1.63" ) (单边支架)

重量：203g (7.16oz) (两边支架总重量)

配件：电池固定带

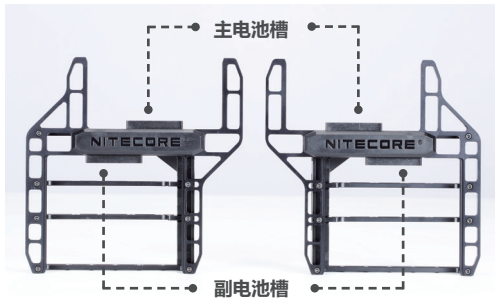
使用电池型号	2×TB50	4×TB50	2×TB55	2×TB55+ 2×TB50
无人机 飞行时间	21 分钟	30 分钟	31 分钟	37 分钟

**注：**以上数据为实验测试数据。具体飞行时间需要视外界环境及使用电池情况而定。



## 安装方法

DPE1 由左右两部分支架组成，分别安装在无人机两侧的电池仓上。每个支架侧面设有↑UP 图标提示支架上方方向。如图所示，位于上方的接口端子为主电池槽，下方为副电池槽，侧面接口端子用于连接无人机。



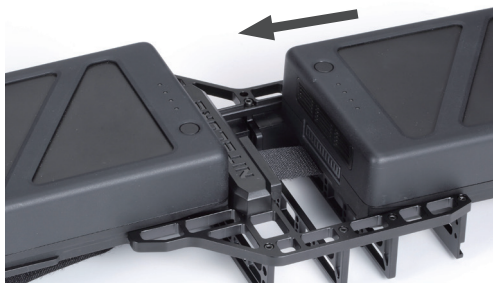
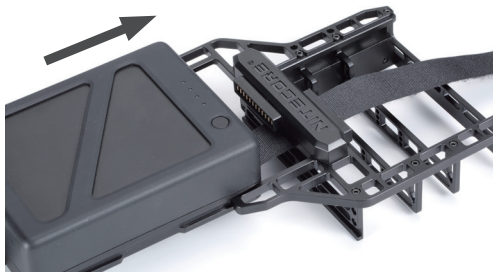
## 将电池装入 DPE1

1. 如图，将固定带穿入 DPE1。(注：固定带魔术贴毛面朝下，如图)



-17-

2. 请按照图示方向，先将电池装入主电池槽，再装入副电池槽。安装时请确保电池与支架接口端子接上。



-18-

### 3. 束紧固定带。



### 4. 另一边支架电池安装方法相同。

#### 注:

- (1) TB55 型号电池仅限安装于主电池槽上。
- (2) 若只装入一块 TB55 电池, 亦可正常使用。
- (3) 建议把循环次数较少的电池, 安装于主电池槽上。
- (4) 特殊情况下, 如需装入两块电量不同的电池, 电量较多的电池请安装于主电池槽上。

## 将 DPE1 装上无人机

1. 先解锁无人机，设置至降落模式后，关闭无人机并拆除电池。

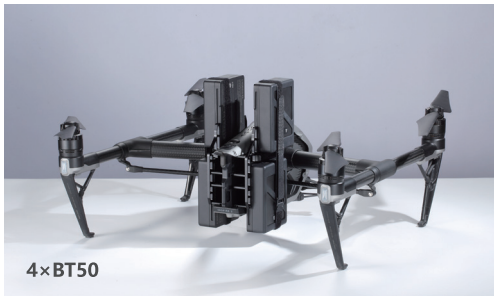


2. 按照图示方向，将已安装好电池的支架，分别装入无人机两侧的电池仓。(注 ↑UP 图标提示方向为上方，请区分左右槽装入。)



3. 当 DPE1 安装好后，无人机上电池弹出按钮将会升起（如图），即安装完成。





4. 安装完成后，先短按无人机电源按键一次，再长按电源按键 5 秒以上，即可激活所有电池。成功激活后的电池电量指示灯应为点亮状态。请检查所有电池电量指示灯是否全部点亮，若发现部分电池没有激活，请关闭后重新激活电池。

## 保固

NITECORE® 产品拥有售后保固服务。在购买本产品的 15 天内，如果有任何质量问题均可向经销商要求免费更换。在购买本产品的 12 个月内享受免费保固服务。在超过 12 个月免费保固期后，本产品享有终身有限度保固服务，如需要更换重要部件则需收取成本费用。

本保固规则不适用于以下情况：

1. 人为破坏，拆解，改装本产品。
2. 错误操作导致产品损坏。

如对奈特科尔产品有任何疑问，欢迎联系当地的代理商或发邮件到 [4008869828@nitecore.cn](mailto:4008869828@nitecore.cn)

※ 本说明书中出现的商标及其产品图片版权属于其合法持有人，此处仅作展示所用。

※ 本说明书的所有图片、陈述及文字信息仅供参考，请以官网 [www.nitecore.cn](http://www.nitecore.cn) 实际信息为准。广州希脉创新科技有限公司拥有对说明书内容的最终解释权和修改权。

# Thanks for purchasing NITECORE!

## **SYSMAX Innovations Co., Ltd.**

TEL: +86-20-83862000

FAX: +86-20-83882723

E-mail: [info@nitecore.com](mailto:info@nitecore.com)

Web: [www.nitecore.com](http://www.nitecore.com)

Address: Rm 2601-06, Central Tower, No.5 Xiancun Road,  
Tianhe District, Guangzhou, 510623, Guangdong,  
China

Manufacturer: SYSMAX Power Technology, LLC



Made in China

---

**Please find us on facebook: NITECORE photo**

DPE2003119