NITECORE®
KEEP INNOVATING

LHH82 LENS HEATER USER MANUAL

Brief Introduction

The LHH82 is a lens heater specially designed for camera lenses with a filter size of 72~82mm to protect it from fogging and blurring the images. It is equipped with an intelligent thermal control module to warm up the lens to a temperature of approx. 45°C (113°F). It is powered by an external USB power supply and withstand an extremely low temperature of -40°C (-40°F). It has 4 heating zones with hook-and-loop design for quick installation and dismount in various environments.

Technical Specifications

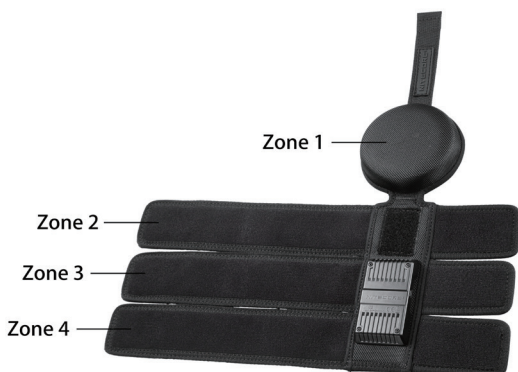|	
Input	5V⎓2A (MAX)
Input Port	USB-C
Operating Temperature	-40°C~40°C (-40°F~104°F)
Heating Temperature	45±5°C (113±9°F)
Compatible with	Camera lenses with a filter size of 72~82mm Including Canon EF 70-200mm f/2.8L IS III USM and more
Main Materials	1680D Nylon
Dimensions	Zone 1: φ85mm (φ3.35") Zone 2~4: 394mm×168mm (15.51"×6.61")
Weight	190g (6.70oz)
Accessories	USB Charging Cable (USB-A to USB-C, 1.5m)

Note:
1. The heating temperature is tested in NITECORE Lab for reference only. The data may vary in real world use due to different environmental conditions.
2. Please refer to the filter size for more compatible models.

Operating Instructions

As illustrated, after wrapping up the camera lens, use the USB cable to connect an external power supply (e.g. a power bank or other USB charging devices) to the charging port to begin the heating process. After that, the blue indicator beside the input port will turn on steadily.
- After connecting the power supply, the heating process will start automatically without manual settings.
- The product will start to heat up Zone 2 first. After Zone 2 reaches approx. 45°C (113°F), it will then start to heat up Zone 1, 3 and 4 simultaneously.

Warnings

1. Please read the user manual carefully before using the product.
2. Please use the USB charging cable included and high-quality power banks to power the product. It is recommended to use official NITECORE power banks (sold separately).
3. DO NOT use the product in an environment of -20°C (-4°F) or lower for over 6 hours, as the USB charging cable could be damaged due to low temperature.
4. Please connect the applicable external power supply only according to the specifications in this user manual. Insufficient input power may lead to malfunction of the product.
5. DO NOT expose the product in the rainy or moist environment. Keep it away from any combustible material.
6. The product is only to be used by adults above 18 years old. Children under this age must be supervised by an adult when using the product.
7. Please unplug the product when it is left unused.
8. DO NOT puncture the product.
9. DO NOT expose the product to corrosive liquid.
10. Please clean the product with a soft brush. DO NOT rinse it with water.
11. DO NOT leave the product unattended when it is in use. Stop using the product at any sign of malfunction.
12. DO NOT disassemble or modify the device as doing so will render the product warranty invalid. Please refer to the warranty section in the manual for complete warranty information.
13. DO NOT misuse in any way! Use for intended purpose and function only.

Disclaimer

This product is globally insured. NITECORE shall not be held responsible or liable for any loss, damage or claim of any kind incurred as a result of the failure to obey the instructions provided in this user manual.

Warranty Service

All NITECORE® products are warranted for quality. Any DOA / defective product can be exchanged for a replacement through a local distributor/dealer within 15 days of purchase. After that, all defective / malfunctioning NITECORE® products can be repaired free of charge within 12 months from the date of purchase. Beyond 12 months, a limited warranty applies, covering the cost of labor and maintenance, but not the cost of accessories or replacement parts.

The warranty will be nullified if
1. the product(s) is/are broken down, reconstructed and/or modified by unauthorized parties;
2. the product(s) is/are damaged due to improper use.

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

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NITECORE®
奈 特 科 尔

LHH82 全包裹镜头防雾器 说明书

产品简介

本品是专为滤镜尺寸为 72mm-82mm 相机镜头特别设计的镜头防雾器，通过加热镜头来防止镜片起雾，避免影响设备的拍摄效果。设有智能温控模块，加热带温度控制在 45℃左右。采用外部 USB 电源供电，能承受低至 -40℃的温度，确保在户外高寒环境下仍能正常工作。4 段分区式加热带，魔术贴固定设计，可快速安装及拆卸，适用于不同的使用场景。

技术参数

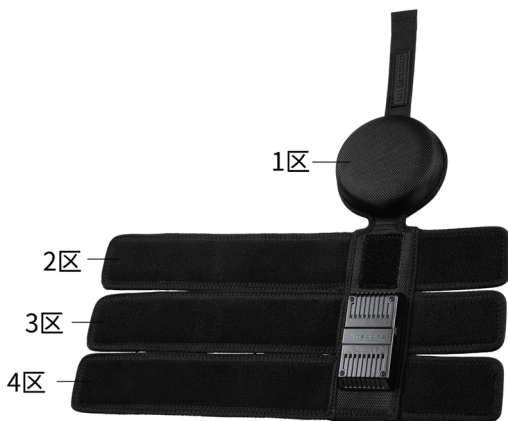|	
输入	5V⎓2A（MAX）
输入接口	TYPE-C
工作温度	-40℃～ 40℃
加热温度	控温 45℃（±5℃）
适用镜头	滤镜尺寸 72mm-82mm 镜头均适用（如佳能 EF 70-200mm f/2.8L IS III USM）
主体面料成分	1680D 尼龙
尺寸	1 区：φ85mm 2-4 区：394mm×168mm
重量	190g
标配配件	USB 电源线（USB-A to TYPE-C，1.5 米）

注:
1. 加热温度数据为奈特科尔实验室测试数据，实际温度可能会受外界环境因素影响，仅供参考。
2. 适用镜头型号未能一一列举，请根据尺寸选购。

使用说明

如图所示，先将本品包裹着相机镜头，再将电源线一端连接输入接口，另一端连接移动电源（或其他供电设备）即可启动防雾程序。接通电源后，输入接口旁的蓝色指示灯将会亮起提示。

- 接通电源后，防雾程序将自动启动，用户无需手动调节。
- 本品会先对 2 区进行加热，直至 2 区温度达到 45℃左右，1、3、4 区再同时进行加热。

注意事项

1. 使用本产品之前，请仔细阅读所有说明。
2. 请使用官方标配的 USB 电源线及优质移动电源进行供电。建议选购奈特科尔移动电源系列产品配套使用。
3. 请勿在 -20℃以下环境使用超过 6 小时，在低温环境下长时间使用，可能导致 USB 电源线损坏。
4. 请按照本说明书所述之参数，选择适合的供电设备，输入功率不足可能会导致本品无法正常工作。
5. 请勿将本品放置在潮湿环境中，使用过程中慎防雨淋，远离易燃易爆危险品。
6. 本品适用人群为 18 岁以上成年人，儿童必须在成人的监督下使用。
7. 未使用本品时，请切断电源。
8. 请勿使用尖锐物品刺破本品。
9. 请勿让本品与强腐蚀性物品接触。
10. 清洁时建议使用软毛刷清除表面灰尘，请勿用水冲洗。
11. 当本品开始工作时，不可无人看管。若发现有任何故障，请立即停止操作。
12. 请勿擅自拆卸、组装或改装本品，人为蓄意损坏将导致保修服务失效，详情请查看保固条款。
13. 不可将本品作为他用！仅可用于指定用途。

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