Aputure Amaran Perfect LED Lighting Solution Halo

AHL-HC100
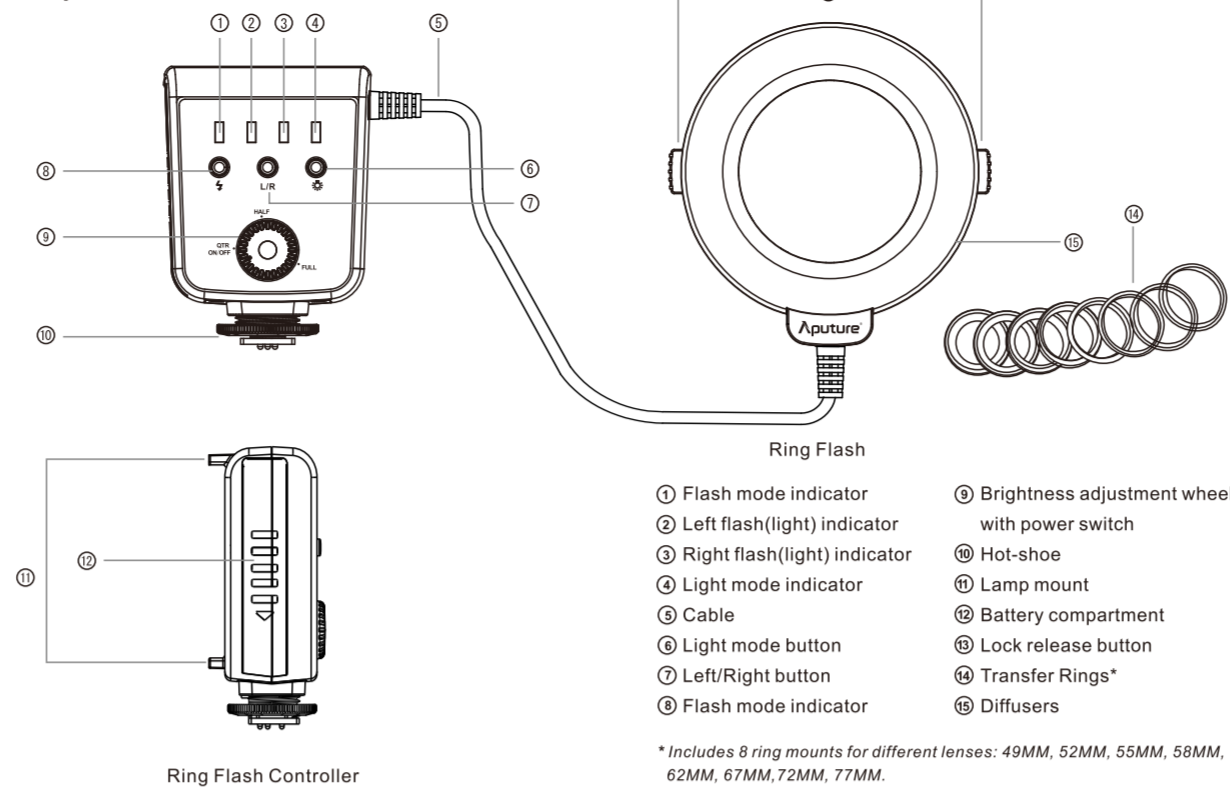### User Manual

CRI 95 Ra+

Description

Thank you for purchasing Aputure "Amaran" LED ring flash AHL-HC100. It inherits the advantages of previous ring flash while adding exciting new features. Uses high Ra up to 95 advanced LEDs to creates excellent performance. And increased LEDs have brought double brightness more than previous light. And you can enjoy flexible combinations and various flash ways to match your art work.

Main Features

1. Uses 100 high color rendering index LEDs (CRI≥95Ra)
2. Double brightness more than previous version
3. No flicker in Light mode, perfect for shooting video
4. Double brightness in Flash mode more than in Light mode
5. Flexible connections between ring flash and controller
6. Stepless brightness control
7. Left and right flash modes for more effects
8. Universal metal hot shoe
9. Includes various transfer rings

Components

Ring Flash

Ring Flash Controller

① Flash mode indicator
② Left flash(light) indicator
③ Right flash(light) indicator
④ Light mode indicator
⑤ Cable
⑥ Light mode button
⑦ Left/Right button
⑧ Flash mode indicator
⑨ Brightness adjustment wheel with power switch
⑩ Hot-shoe
⑪ Lamp mount
⑫ Battery compartment
⑬ Lock release button
⑭ Transfer Rings*
⑮ Diffusers

*Includes 8 ring mounts for different lenses: 49MM, 52MM, 55MM, 58MM, 62MM, 67MM,72MM, 77MM.

Installation

1.Insert four AA batteries into the battery storehouse.
2.Affix the hot-shoe head of Ring Flash Controller to the camera's hot-shoe,then release.
3.Ring Flash Setup
1).Use the appropriate ring mount according to the size of the lens.
2).Place the ring mount on the lens.
3).Hold lock and place Ring Flash on the ring mount.

Function and operation

Button information

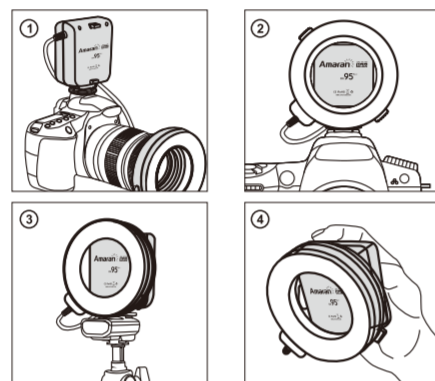| Button	Function
⚡	1.Test the flash output 2.Switch to flash mode
L/R	Press L/R button to switch between left, right, and full brightness mode
☀	Switch to light mode

Brightness adjustment

Halo has 3 stops under Flash and Light mode. Flash mode light output is twice the Light mode.
1.QTR represents quarter of the maximum brightness.
2.HALF represents half of the maximum brightness.
3.FULL represents the maximum brightness.

Usage introduction

Aputure Amaran Halo LED Ring Flash Usage.

① Aputure Amaran LED Ring Flash for general usage.
②③④ Aputure Amaran LED Ring Flash for unique usage.

Specifications

LED Number	100	Color Temperature	5500K±200K
LED Angle	45°	Sync Speed	>1/200S
CRI	≥95Ra	Battery	4 AA batteries
Illumination	50cm 1020 lux		
	100cm 305 lux	Power	≤6W
Supply Power Voltage	DC3.6V-6.7V	Average Life Span	＞ 100,000 hours

Trouble shooting

1.Underexposed or overexposed photos
Be sure the camera shutter, aperture, or ISO setting is not too high or low. Also check exposure compensation, exposure bracketing and flash-related settings.

2.Vignetting
Do not use wide angles, and adjust the camera's focal length to 50 mm or more.

3.Flash does not work
• Be sure the battery has power. If not, replace it.
• During battery installation, follow the +/- icons.
• Be sure the camera and flash hot-shoe is clean. If not, clean it with a cloth and then reinstall.

4.Abnormal Flash
Turn off Halo and camera, then setup Halo again, then turn on both after setup. If still abnormal, replace batteries and try again.

For your safety

To prevent damage to your product or injury to yourself or to others, read the following safety precautions in their entirety before using this equipment. Keep these safety instructions where all those who use this equipment will read them.

☞ **Do not disassemble or modify**
Failure to observe this precaution could result in electric shock or product malfunction. Should the product break open as the result of a fall or other accident, remove the batteries.

☞ **Keep dry**
Do not handle with wet hands or immerse in or expose to water or rain. Failure to observe this precaution could result in fire or electric shock.

☞ **Do not use in the presence of flammable gas**
Failure to observe this precaution could result in explosion or fire.

☞ **Keep out of reach of children**
This device contains small parts which may pose a choking hazard. Consult a physician immediately if a child swallows any part of this device.

☞ **Do not expose to high temperatures**
Do not leave the device in a closed vehicle under the sun or in other areas subject to extremely high temperatures. Failure to observe this precaution could result in fire or in damage to the casing or internal parts.

☞ **Observe precaution when handling batteries**
• Use only batteries listed in this manual. Do not mix old and new batteries or batteries of different types.
• Do not short or disassemble.
• Do not attempt to insert batteries upside down or backwards.
• Batteries are prone to leakage when fully discharged.
• To avoid damage to the product, be sure to remove the batteries when leaving the product unattended for prolonged periods or when no charge remains.
• Should liquid from the batteries come into contact with skin or clothing, rinse immediately with fresh water.
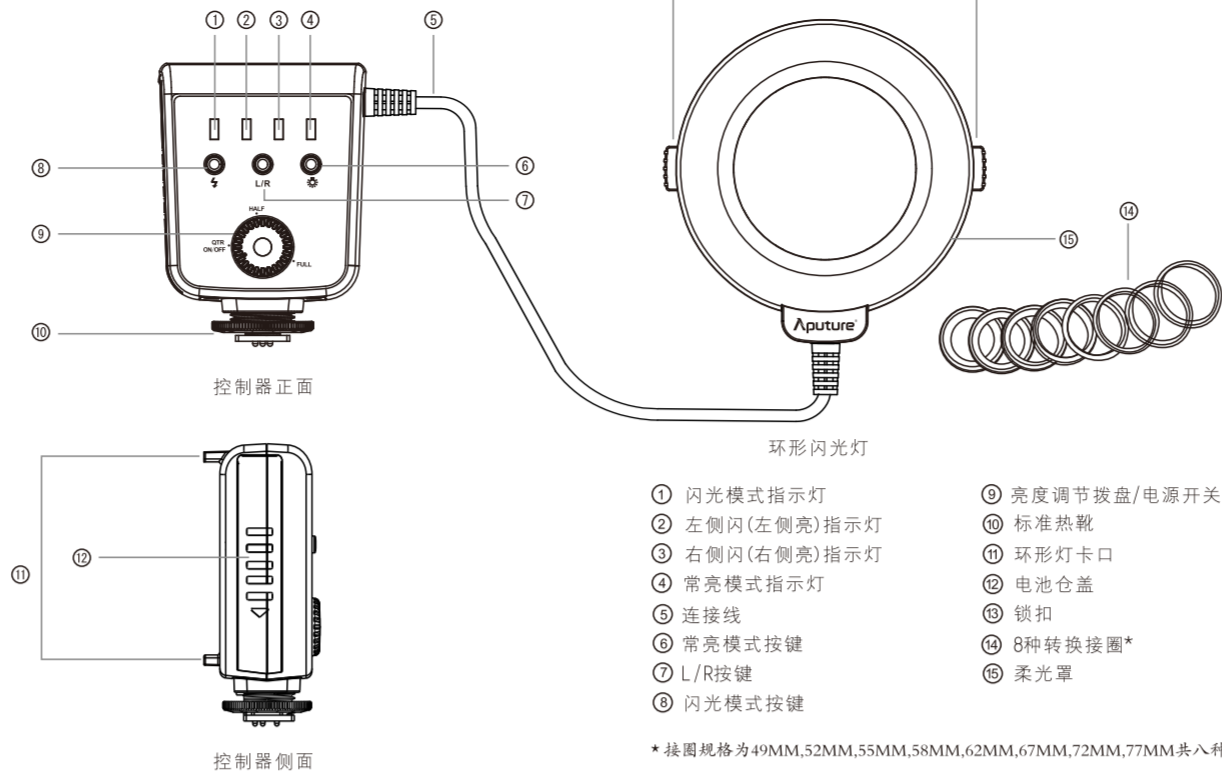
描述

感谢您购买爱图仕"艾蒙拉"LED环形闪光灯AHL-HC100，本产品延续了以往产品的优越性能，并新增了更多强大的功能。此环闪灯采用高达Ra95的高显色性LED灯珠，颜色显示更丰富真实；灯珠数量增加到100颗，亮度较前代产品提高一倍。此外，其独具创意的连接方式，使灯体和控制器可灵活移动，更有多种使用模式，可满足您更多的创意需求。

主要特点

1. 采用100颗高显色性LED灯珠，显色指数＞Ra95（CRI＞95），还原更真实的颜色。
2. 灯珠增加到100颗，亮度较前代产品提高一倍。
3. 常亮模式下，无频闪，更适合视频拍摄。
4. 闪光模式时，亮度输出为常亮模式的两倍。
5. 灯体和控制器轻松连接，可灵活拆分组合，满足您的创意需求。
6. 无极调光拨盘可实现亮度快捷调整。
7. 左侧灯和右侧灯独立控制功能，轻松营造富有立体感的光效。
8. 标准金属热靴。
9. 配备多种接圈，几乎适合所有镜头，特别适用于微距，人像摄影，科研医药等摄影和视频拍摄。

AHL-HC100
使 用 说 明 书

CRI**95**^{Ra+}

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各部件名称

控制器正面

控制器侧面

环形闪光灯

① 闪光模式指示灯
② 左侧闪(左侧亮)指示灯
③ 右侧闪(右侧亮)指示灯
④ 常亮模式指示灯
⑤ 连接线
⑥ 常亮模式按键
⑦ L/R按键
⑧ 闪光模式按键
⑨ 亮度调节拨盘/电源开关
⑩ 标准热靴
⑪ 环形灯卡口
⑫ 电池仓盖
⑬ 锁扣
⑭ 8种转换接圈*
⑮ 柔光罩

＊接圈规格为49MM,52MM,55MM,58MM,62MM,67MM,72MM,77MM共八种。

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产品安装

1. 将4颗AA电池装入电池仓中。
2. 将环形闪光灯控制器插入相机热靴中。
3. 环形闪光灯的安装。
  1) 按照所使用的镜头口径选用对应的接圈。
  2) 将接圈旋入镜头。
  3) 按住环形闪光灯的锁扣，装入安装好接圈的镜头，松开锁扣，此时环形闪光灯锁在接圈上。

功能与操作

按键功能

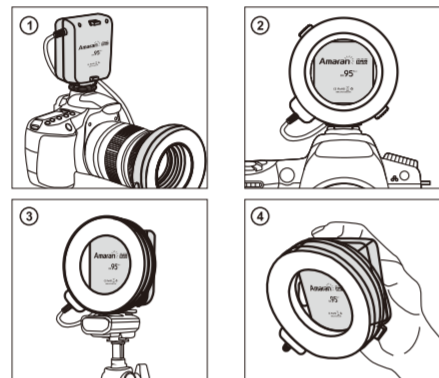| 按键	功能
⚡	1.切换至闪光模式 2.可进行闪光测试
L/R	每按一次按键，依次在"左/右/全部"之间循环切换。
☀	切换至常亮模式。

亮度调节

爱图仕 Amaran Halo LED AHL-HC100环闪灯无论在常亮模式还是闪光模式下亮度均有3个档位，闪光模式下亮度输出是常亮模式下的2倍。
1. QTR代表1/4档位，其输出为最大亮度时的1/4。
2. HALF代表1/2档位，其输出为最大亮度时的1/2。
3. FULL代表1/1档位，其输出为最大亮度。

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用法介绍

以下图示为爱图仕 Amaran LED环闪灯的用法。

① 图为爱图仕 Amaran LED环闪灯的一般用法。
②③④ 图为爱图仕 Amaran LED环闪灯的独特用法。

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技术参数

灯珠个数	100	色温	5500K±200K
灯珠角度	45°	灯珠寿命	大于100.000小时
CRI	＞95	同步时间	大于1/200S
照度	50厘米 1020 lux	电源	4节AA电池
	100厘米 305 lux	功耗	＜6W
工作电压	DC 3.6V-6.7V		

常见问题

1.照片欠曝或过曝
检查相机快门、光圈、感光度（ISO）等曝光参数是否正确，以及查看闪光灯闪光输出是否合适。

2.相机四个角落比较暗或者有黑影
检查相机镜头是否被设为广角，调整相机的焦段至50MM或者以上。

3.闪光灯不闪
- 确认电池电量是否充足。
- 确认电池正负极是否安装正确。
- 确认闪光灯或相机上的热靴接触点是否脏污，用纤维布擦净后重新安装。

4.闪光灯异常
请关闭闪光灯与相机的电源。在相机热靴上重新安装好闪光灯后，再重新打开闪光灯与相机电源。

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安全须知

为了防止对产品造成损害或伤害到您自己或他人，请在使用前充分阅读下面的安全须知，并妥善保管以便所有本产品的使用者可随时参阅。

☞ **请勿自行拆卸或改装**
违反此警告可能会触电或导致产品故障。若本产品因为摔落或其它意外事故造成破损，请取出电池，并送到专业维修店维修。

☞ **保持干燥**
- 请勿用湿手操作，禁止将产品置于水中或在雨中作业。否则可能引起火灾或触电。
- 请勿在有易燃气体的环境下使用，违反此警告可能引起爆炸或火灾。

☞ **置于儿童接触不到的地方**
本产品包含的零部件，有可能造成窒息的危险。如果儿童不小心吞食了零件，请立即送往医院救治。

☞ **请勿暴露于高温环境**
请勿将本产品置于阳光直射下的封闭的车辆内或其他高温环境，否则可能导致产品发生爆炸。

☞ **电池使用安全事项**
- 只能使用本手册中指定的电池。
- 不要混用新旧电池或不同类型的电池。
- 请勿拆卸电池或使电池短路。
- 装电池时要注意正负极对应正确。
- 电池电量耗尽时容易发生漏液，为防止对产品造成损害，当长期不使用本产品时请将电池取出。
- 如果受损电池中的液体接触到皮肤或衣物，应立刻用大量清水冲洗。

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