

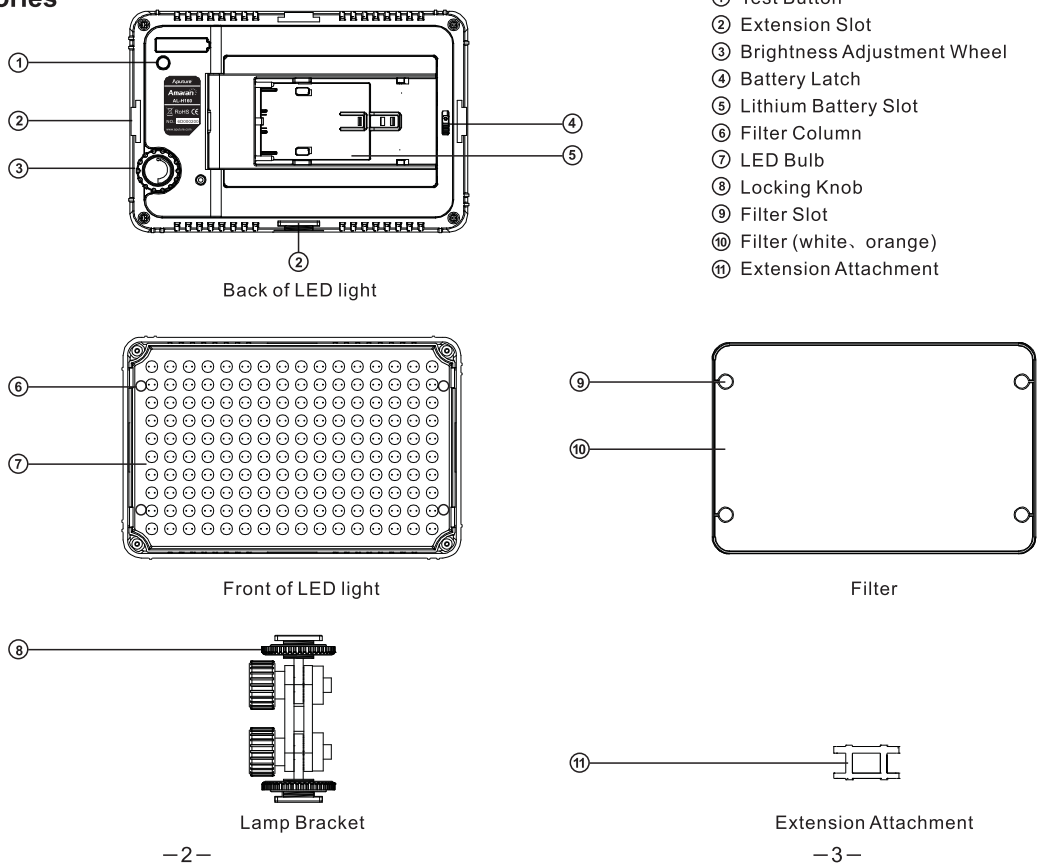
## Description

Thank you for purchasing Aputure "Amaran" LED video light AL-H160 . It inherits the advantages of previous video light while adding exciting new features. Uses high Ra up to 95 advanced LEDs to creates excellent performance, offering stably abundant brightness output, stepless brightness control, battery power indicator and expandable for maximum brightness as need. It also supports various lithium batteries. Shoot amazing images or videos with Amaran lights in ease.

## Main Features

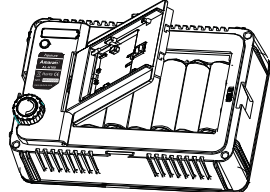
1. Uses high color rendering index LEDs (CRI≥95Ra)
2. Stepless brightness control
3. Battery power indicator
4. Expandable up to 9 LED panels
5. Multiple battery options
6. 16:9 widescreen design
7. Low power consumption, eco-friendly & power saving
8. Include diffusing filter and orange warming filter

## Accessories



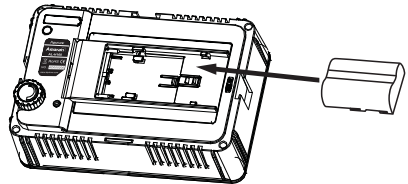
## Battery Installation

**AA Battery Installation**  
Insert six AA batteries into the battery holder by following the diagram's directions.



Tips: When installing batteries, please notice the Positive and Negative icon. We suggest use rechargeable AA batteries.

**Lithium Battery Installation**  
Insert lithium batteries by following the diagram's directions, then push the battery holder to the left.

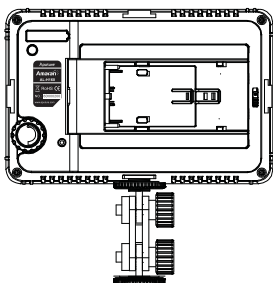


Tips: Usable lithium batteries include Sony NP-F series: NP-F550/F570/F770/F960/F970;  
NP-FM/QM series: FM50/FM51/FM55H/FM500H/QM50/QM51/QM71D/QM91D;  
NP-FP/FH/FV series: NP- FP50/FP60/FP70/FP90/FH50/FH60/FH70/FH90/FH100/FV50/FV60/FV70/FV100.

## Installation and Removal

### Installation

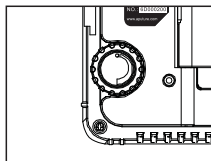
Please fix the hot-shoe head of Lamp Bracket to the Extension Slot of LED's bottom, and turn the Locking Knob to the right.



### Removal

Turn the locking knob to the left, and extract the hot-shoe head from the Extension Slot of LED's bottom.

Tips: Turn off the light before video light installation or removal.

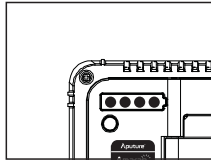


## 2.Battery Power Test

There are four indicators on the back of the LED. Remember to turn off the LED light when pressing the test button.

The following test is based on AA batteries.

If all indicators lights are on, battery power is full; if three indicators are on, battery power is good; if two indicators are on, battery power is poor, and you should consider replacing the battery; when one indicator is on, battery power is nearly empty, and batteries should be replaced immediately.

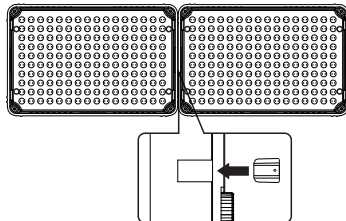


Tips: When using lithium batteries, full power is indicated by two or three indicator lights (because of the lower voltage compared to 6 AA batteries)

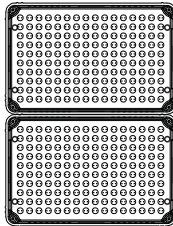
## 3.Multiple Light Combinations

There are 4 Extension Slots on the four sides of Aputure Amaran LED video light, the user could combine the lights together to achieve some effect.

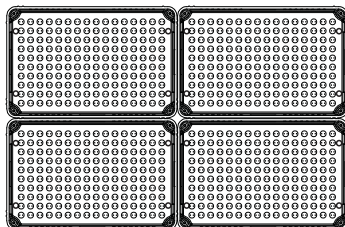
### 3.1 Horizontal Extension



### 3.2 Vertical Extension



### 3.3 Vertical and Horizontal Extension



Tips: The horizontal or vertical extension is limited to three by three (3x3) squares. Overloading may affect stability and compromise your LED lights safety.

## Specifications

Operating Current	< 1.5A	Power	< 13W
Supply Power	DC 5.5V ~ 9.5V	Cooling Mode	Natural Ventilation
Average Life Span(H)	> 100000	Color Temperature(K)	5500K
Beam Angle	60°	CRI	> 95 Ra
Volume(L*W*H mm)	151x56x100	Net Weight	325g

### Brightness

Distance	Footcandles	LUX
0.5M	265	2860
1M	69	750
2M	19	210

## Notes

1. Please do not directly face the LED when the lights are on.
2. Never block the ventilation grille by covering it with paper or clothes.
3. Do not place the LED light near alcohol or other flammable objects.
4. Do not place any objects or liquids on the LED light.
5. When the LED light is on or against the other items above, please turn it off, lest they cause fire or damage to the light.
6. Do not grab the LED light head to pick up your camera, when they are attached.
7. Use a dry soft cloth to clean the LED light. You can clean the device with a cloth slightly some neutral detergent to remove the dirt. Do not use strong cleaning agents, such as thinner, gasoline or alcohol.

## Safety Precautions

1. To prevent fire or electric shock, please keep the device away from rain or humidity.
2. Should you notice smoke or an unusual temperature coming from the equipment, cut off the power and stop using it. Take the device to an authorized service center for inspection.
3. Do not disassemble the device by yourself. In the event of malfunction, the product should be repaired only by a qualified technician or service center.
4. During storage and transportation, please turn the device off.
5. Please use the appropriate lithium battery for the device.
6. Keep the device out of reach of children.

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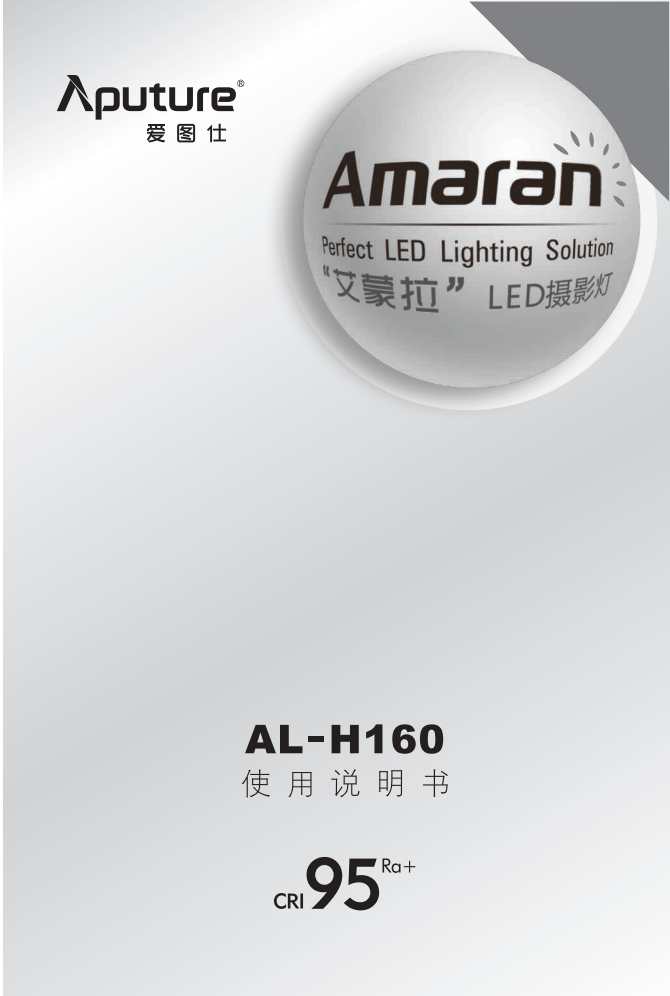
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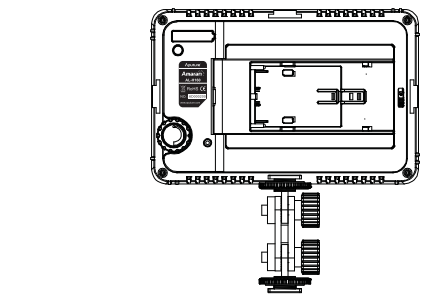
Aputure® 深圳市爱图仕影像器材有限公司			
设计项目	AL-H160 LED摄影灯说明书	图号	AP-016-PR-02
尺寸(mm)	展开尺寸：430*258MM, 折叠尺寸：86*129MM	版本	A1版
材质工艺	70克书写纸	设计师	杨萍
		日期	2013年10月29日
备注	红色虚线为折叠线 料号：516160200000, 英文在前		



## 安装与拆卸

**安装**  
将灯具支撑柱的热靴头插入LED摄影灯底部的组合插槽，向右侧旋转锁紧旋钮即可。

**拆卸**  
向左旋转锁紧旋钮，从LED摄影灯底部的组合插槽中拔出灯具支撑柱的热靴头即可。



小贴士：在将摄影灯安装到摄像机或从摄像机卸下摄影灯之前，须先把电源开关关掉。

## 功能与操作

**1. 亮度调节**  
爱图仕Amaran LED摄影灯具有调节亮度的功能。如图示：

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## 描述

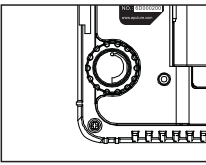
感谢您购买爱图仕“艾蒙拉”LED摄影灯AL-H160，本产品延续了以往产品的优越性能，并新增了更多强大的功能。此LED摄影灯采用高达Ra95的高显色性LED灯珠，颜色显示更真实；其亮度高、光线持续稳定，并具有手动调节亮度、查看电量、多灯拼接等功能。此LED摄影灯支持多种类型电池供电，操作简单，携带方便，是您视频拍摄的得力助手。

## 主要特点

- 1.采用高显色性LED灯珠，显色指数>Ra95（CRI>95），还原更真实的颜色。
- 2.无级调光旋钮可轻松调节LED灯的光亮度。
- 3.支持电量查看。
- 4.可通过多灯拼接达到不同的光亮度。
- 5.可使用多种类型的电池。
- 6.16:9宽屏比例设计。
- 7.低功耗，超强节能，绿色环保。
- 8.配备柔光片和橙色片。

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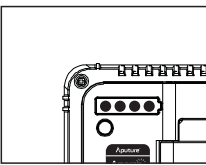
向右旋转调光旋钮，LED摄影灯将会被打开，继续向右旋转该旋钮，亮度增强；反之，亮度减弱，直至LED摄影灯关闭。



## 2. 电池电量测试

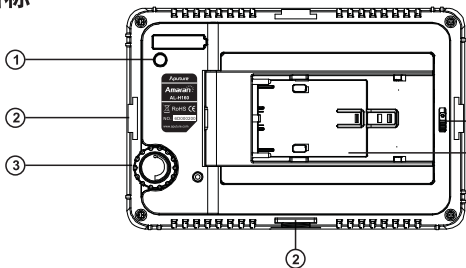
爱图仕Amaran LED摄影灯背部有四个指示灯，只需按下下方的电池电量测试按钮即可测试电池电量。测试电量时，请关闭LED灯。

以下测试是以AA电池为标准来测试的：  
当4个指示灯都亮起时，证明电池电量为最佳状态；当3个指示灯亮起时，电池电量状态为好；当2个指示灯亮起时，电池电量为欠佳；当1个指示灯亮起时，此时电池电量不足，可以考虑更换电池，以免影响使用。

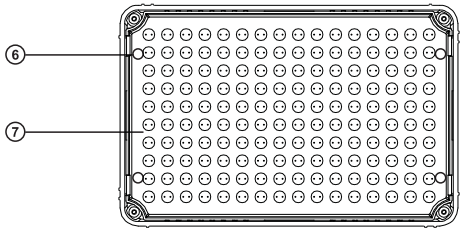


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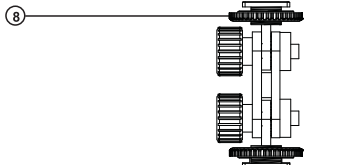
## 各部件名称



灯具后视图



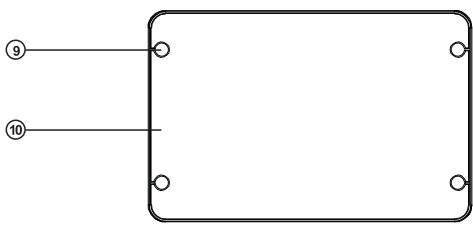
灯具前视图



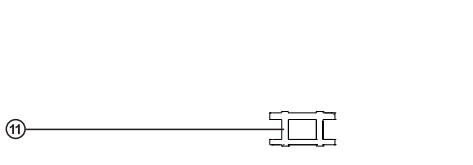
灯具支撑柱

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- ① 电池电量测试按钮
- ② 组合插槽
- ③ 调光旋钮
- ④ 电池仓盖锁扣
- ⑤ 锂电池仓
- ⑥ 滤光片卡柱
- ⑦ LED灯珠
- ⑧ 锁紧旋钮
- ⑨ 卡孔
- ⑩ 色片（白、橙各一）
- ⑪ 组合插槽连接附件



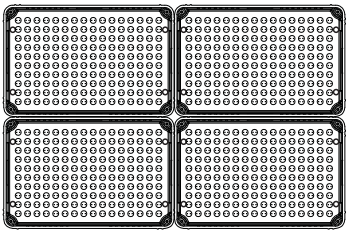
色片



组合插槽连接附件

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## 3.3 纵横拼接



小贴士：横向组合或纵向组合以三台为限，即3X3的方阵，超过时有可能影响稳定性。

## 规格

工作电流	≤1.5A	功耗	≤13W
工作电压	DC 5.5V-9.5V	散热方式	自然通风
平均寿命(小时)	>100000	色温	5500K
光照角度	60°	CRI	>95 Ra
体积（长X宽X高mm）	151x56x100mm	净重	325g

## 亮度测试数据

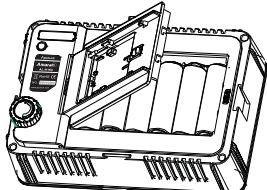
距离	英尺烛光（ftc）	勒克斯（Lux）
0.5米	265	2860
1米	69	750
2米	19	210

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## 电池安装

### AA电池安装

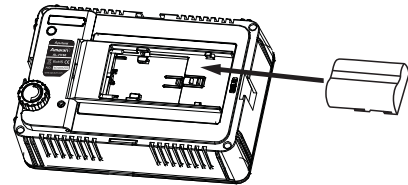
将6节AA电池按图示方向装入电池仓中



小贴士：建议使用可充电电池。使用时请注意电池正、负极，新旧电池不能混合装入。

### 锂电池安装

将锂电池按图示方向下压，然后向左推入电池盒。



小贴士：适用电池型号为索尼 NP-F系列:NP-F550/F570/F770/F960/F970; NP-FM/QM系列：FM50/FM51/FM55H/FM500H/QM50/QM51/QM71D/QM91D; NP-FP/FH/FV系列：NP-FP50/FP60/FP70/FP90/FH50/FH60/FH70/FH90/FH100/FV50/FV60/FV70/ FV100.

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## 注意事项

- 1.当摄影灯点亮时，切勿直视。
- 2.在使用过程中，散热口上切勿有遮盖物以免影响散热效果而损毁设备。
- 3.避免将摄影灯放置在如酒精或汽油等易燃或易挥发的溶剂附近。
- 4.切勿将任何物体置于摄影灯上或使液体掉入其内部。
- 5.当摄影灯放在或靠在其他物品上时，请关掉摄影灯，否则有可能会造成火灾或损坏摄影灯。
- 6.切勿抓住摄影灯的灯头拿起摄影机。
- 7.当清洁摄影灯时，请选用干软布沾上中性的清洁剂将其污垢擦去，切忌使用烈性的清洁剂，如稀释剂、汽油或酒精等。

## 安全须知

- 1.切勿让本装置遭雨淋或受潮，以免火灾或触电的发生。
- 2.请使用规定的电池，以便安全使用。
- 3.使用中若发现温度异常或冒烟现象，应立即切断电源，停止使用，并送到授权经销商予以合理的处理。
- 4.当遇到任何故障时，请勿自行拆卸设备，应联系有资格的维修技师或服务中心进行检查维修。
- 5.储运过程中，请断开设备和电源，以免误触开关后，长时间的无人监控引起火灾的发生。
- 6.请安全选购和使用适用于本设备的电池。
- 7.请保管好本产品，切勿放置在儿童伸手之处。

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