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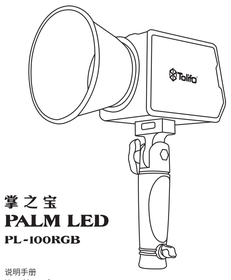
Tolifo 图立方

专注影视器材研发与制造 23 年
Specialized in R&D and manufacturing photo video equipment for 23 years



掌之宝
PALM LED
PL-100RGB

说明手册
User Manual

一、前言

感谢您购买此产品

PALM LED是一款迷你高亮度的常亮灯，可自由切换多种模式，适合于任何场景：直播、野外露营、自拍、景物拍摄、化妆照明、视频录播、婚纱摄影、儿童拍摄及有限空间补光，轻松动感补光等，可APP控制调光，操作简便，轻巧便捷。

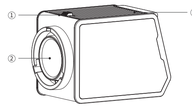
主要特点：

- 一灯多用，随心切换双色温、彩光模式和20种情景特效模式
- 自由调节色温、亮度
- 小巧显示屏，精确显示参数
- 内置锂电供电
- 操作简单，适用范围广泛
- 迷你设计，方便携带

二、保养及注意事项

1. 请保持干燥：请勿用湿手接触产品，亦不可以将产品浸入水中或暴露于雨中。
2. 请勿私自拆卸产品，如产品出现故障由本公司或授权的维修人员进行检查维修。
3. 请勿让儿童接触本产品。
4. 本产品不防水，在雨天及潮湿环境下请注意防水。
5. 请勿在化学品、可燃性气体或其他特殊物质附近使用摄影灯，在这些场合下，请注意相关警告标识。
6. 请用干软布来清洁摄像灯，您可以用布稍稍沾上一些中性的清洁剂来擦去较难去除的污垢，然后用软布将其擦干。
7. 内置锂电，禁止拆卸、撞击、挤压或投入火中，若出现严重膨胀，请勿继续使用。请勿放置在超过40°C的高温环境中，使用专用的充电器进行充电，并且正确的按照操作说明，在规定的电压、 温度范围内使用。
8. 摄像灯长时间不用时请切断电源。
9. 长时间不用时，请充满电存放，每3个月充一次电，长期亏电存放，可能导致内部电池损坏。
10. 请遵守此注意事项，否则将可能导致受伤。

三、部件



01. 卡口解锁键	02. 灯珠	03. 散热孔	04. LCD屏
05. 蓝牙重置/风扇	06. 特效	07. 彩光模式	08. 增强模式
09. 色温/特效调节旋钮		10. 亮度旋钮	11. 电源按键
12. Type C充电口		13. DC电源孔	14. 1/4-20螺孔

四、使用说明

1. 首次使用，建议先充电

1.1 开关： 电源键按1秒后，显示屏点亮，顺时针旋转任意旋钮到0开机。

1.2 静音风扇： 当灯具点亮后，静音风扇会启动一小会然后停止工作以确保静音工作。一旦散热器工作温度达到120°F (50°C)，静音风扇开始工作。

2. 色温模式

2.1. 在色温模式下，按转色温旋钮按键以调节2700-6500K。
2.2. 短按色温旋钮按键，可快速切换，2700K/3200K/4500K/5000K/5600K/6500K。

3. 彩光模式

3.1. 按 (HSI) 按键进入彩光模式。
3.2. 旋转 (DIMMER) 亮度旋钮，可调整亮度0-100%。短按可快速切换，25%、50%、75%、100%。旋转 (COLOR / FX) 旋钮，调整0~360，再次短按 (COLOR / FX) 可调整饱和度0%~100%。

4. 亮度调节

4.1. 在亮度模式下，旋转亮度旋钮按键可以调节0-100%。
4.2. 短按亮度旋钮按键，可快速切换，0%/25%/50%/75%/100%。

5. 特效模式

5.1. 在色温/彩光模式控制状态下，按 (FX) 键进入特效。
5.2. 旋转 (COLOR/FX) 键可选择20种不同特效，短按 (COLOR/FX) 可调整频率1-9，旋转 (DIMMER) 键调整亮度0-100%。

01 脉冲　02 闪电
03 电视　04 故障灯
05 狗仔队　06 紧急呼救
07 渐亮　08 渐暗
09 篝火　10 爆炸
11 烛光　12 呼吸灯
13 警车　14 流星
15 霓虹　16 液断料
17 救护车　18 消防车
19 RGB循环　20 焊接

6. 蓝牙重置/静音模式

6.1. 短按 (◀/⏻) 键可关闭风扇，再次短按可打开风扇。

温馨提示：
如果静音风扇关闭，亮度允许调节范围为0-15%。
如果灯具内部温度达到50°C，自动启动散热风扇。

6.2. 长按 (◀/⏻) 键，显示屏闪烁时，可进行蓝牙重置。(详见蓝牙操作说明)

7. 增强模式

7.1. 开机后，短按增强模式 (MAX)，亮度百分比闪烁，HSI模式下无效，此时灯具增强模式开启。此时灯具的100%亮度，2700K-6500K范围内，整机功率为150W（带适配器功率100W）；再次短按增强模式，灯具转为普通功率模式，此时灯具的100%亮度，2700K-6500K范围内，功率为约60W。

五、产品参数

型号	PL-100RGB
整机功率	90W
带适配器功率	100W
色温调节	2700K-6500K ±200K
CRI	>95
色相	0-360°
调光范围	0%-100%
饱和度	0%-100%
光源	5色COB灯珠
特效	20
特效速度	1-9
APP控制	LinkLite（基于蓝牙）
蓝牙控制距离	≤60M
电池	14.8V⎓ 4500mAh 66.6Wh（等同于3.7V⎓ 18000mAh）
电池续航时间	普通模式：约66分钟 / 增强模式：约45分钟
Type C充电	支持PD3.0协议 9V/12V/15V/20V 充电功率30
过热保护	灯头温度达到90°C时，将断开输出，显示代码E1
工作电压	DC19V
适配器（选配）	DC19V⎓ 4.73A
尺寸	145*86*100mm

MAX模式棚灯照度

	1M	2M	3M
2700K	3300Lx	960Lx	485Lx
3200K	3520Lx	1020Lx	514Lx
5600K	4050Lx	1170Lx	585Lx
6500K	4130Lx	1210Lx	600Lx

MAX模式配D10B鱼眼灯罩照度

	1M	2M	3M
2700K	13000Lx	3200Lx	1450Lx
3200K	12500Lx	3160Lx	1430Lx
5600K	10800Lx	2870Lx	1340Lx
6500K	10200Lx	2780Lx	1320Lx

	1M
R 红光照度 0	486Lx
G 绿光照度 120	932Lx
B 蓝光照度 240	253Lx

* 以上数据出自图立方实验室。最终解释权归图立方公司所有。
设计和规格如有变更，恕不另行通知。

六、电池充电

1. 低电量

1.1. 如果电池电量过低，屏幕显示LO并自动关机。

2. 为电池充电

2.1. TYPE C充电电压5-20V，最大充电功率30W，大约需要充电3小时。
2.2. 电池状态提示

满电状态　充电状态 (闪烁)　低电量状态　电量低，关机

3. TYPE C 和适配器 (选配) 充电

3.1 Type C供电：支持PD3.0协议 9V/12V/15V/20V 充电功率30W。
3.2. 适配器 (选配)：19V⎓ 4.73A 90W。

温馨提示： 请在普通模式下为电池充电。如果启用MAX增强模式，请确保亮度小于60%。若在增强模式下大于60%亮度，电池将自动关闭充电。

七、故障及解决方法

显示E1	过热保护，检查风扇是否运转，上下进出风口是否通畅。需保证进出风口散热通畅。
显示E2	温度传感器开路，需返修。
显示E3	DC插座输入电压过高，请更换标准适配器。DC口输入电压为DC19V±1V。
DC孔插入电源后，只充电，不能点灯： DC插座输入电压过低，只能充电，更换标准适配器后将能正常开机。	
100瓦充电棒插灯口不能供电只能充电： 需要20V5A ±口转DC 5521转换线，从灯的DC孔插入。	

八、标配物品

① 1. 主机*1　② 2. 灯罩*1　③ 3. 柔光棚*1　④ 4. 手柄*1　⑤ 5. Type C线*1

选配配件另行购买

⑥ 6. 适配器 (选配) *1　⑦ 7. 电源线 (选配) *1　⑧ 8. PD诱骗线 (选配) *1
⑨ 9. 快充头 (选配) *1　⑩ 10. 布包 (选配) *1

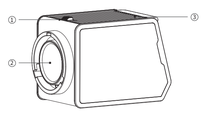
FCC声明

FCC ID：2BAFB-PL-100RGB
Model：PL-100RGB

该设备经过测试，符合B级限值根据FCC规则第15部分，数字设备。这些限制旨在为住宅设施提供合理的保护，防止有害干扰。该设备产生、使用并可以辐射射频能量，如果没有按照说明安装和使用可能会造成有害干扰无线电通信。然而，不能保证干扰不会发生在特定的安装中。如果该设备确实对以下设备造成有害干扰无线电或电视接收，可以通过关闭设备来确定然后，鼓励用户尝试纠正一个或多个干扰以下措施：
- 重新定向或重新定位接收天线。
- 增加设备和接收器之间的间距。
- 将设备连接到与电源不同的电路上的插座接收器已连接。
- 请咨询经销商或经验丰富的无线电/电视技术人员以获取帮助。
为确保持续合规，任何未明确说明的更改或修改都可能使用户失去授权操作此设备的权利。例如，不遵守说明书中指定的电缆连接和操作条件，或未经授权的设备修改。
负责合规性可能会使用户无权操作此设备。(示例-连接时仅使用屏蔽接口电缆计算机或外围设备)。
该设备符合FCC规则第15部分。操作取决于以下两个条件：
(1) 此设备可能不会造成有害干扰，以及
(2) 该设备必须接受接收到的任何干扰，包括可能导致不期望的操作。

FCC辐射暴露声明：
该设备符合FCC规定的辐射暴露限值
不受控制的环境。安装和操作此设备时，散热器和身体之间的最小距离应为20cm。

III. Parts Overview



01. Reflector Latch / Release	02. COB LED	03. Vents	04. LCD Screen
05. Bluetooth Connection Reset	06. FX Mode	07. HSI Mode | CCT Mode	
08. Max Mode	09. Adjustment Knob (CCT/FX)	10. Dimmer	11. Power Switch
12. Type C Charging Port	13. DC Power Socket	14. 1/4"-20 Threads.	

IV. Operating Instruction

1. Power On | Off
Reminder: Before you start to use the light, please charge the battery.

1.1. Power On - Hold the power button for 1 second till the display is turned on, and turn any of the knobs clockwise till 0 shown on display then the device is powered on.

1.2 Cooling Fan
When the light is switched on, the cooling fan will be running for a little while and then stops to make sure the light is working quietly.
Once the working temperature of ventilator reaches 120°F (50℃), the cooling fan will be activated on.

2. CCT Control

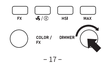
2.1. Turn the Adjustment Kob (COLOR/FX) as shown by the arrow to change the color temperature from 2700K-6500K.
2.2. Shortly press the Adjustment Kob (COLOR/FX) to quickly select the color temperature 2700K | 3200K | 4500K | 5000K | 5600K | 6500K.

3. HSI Mode

3.1. Press HSI button to enter HSI mode.
3.2. Turn the DIMMER knob to choose the intensity 0-100%, shortly press to quickly select the brightness 25% | 50% | 75% | 100%, and turn the Adjustment Knob (COLOR/FX) to change hue 0-360° , and shortly press it to select the saturation 0-100%.

4. Intensity Dimmable

4.1. Turn the DIMMER knob to change the intensity from 0-100%.
4.2. Shortly press the DIMMER knob to quickly select the intensity 0-25%-50%-75%-100%.



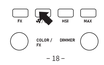
5. FX Mode

5.1. Press the FX button below the screen to enter FX mode.
5.2. Turn the Adjustment Knob (COLOR / FX) as shown in the arrow to change the preset lighting effects from F1 to 20. Shortly press the knob as shown in the arrow to change the flash speed. The intensity is changed by turning the DIMMER knob.

01 Pulsing　02 Lightning
03 TV　04 FaultBulb
05 Paparazzi　06 SOS
07 Fadein　08 Fade
09 Campfire　10 Explosion
11 Candle　12 Breathe
13 Cop Car　14 Party
15 Fireworks　16 Disco
17 Ambulance　18 FireSiren
19 RGB Loop　20 Welding

6. Bluetooth Connection Reset | Silent Fan

6.1. Shortly press the button (◀/⏻) (as shown by the arrow below) to switch off the cooling fan (if the icon (◀) disapears on screen) and press again to activate on (if the icon (◀) apears on screen).
Note: Once the working temperature of ventilator reaches 120°F (50°C), the cooling fan will be running automatically. If the cooling fan is switched off, the dimmer will be allowed from 0-15%.
6.2. Press and hold button (◀/⏻) until the LCD screen blinks, you can reset the bluetooth connection with mobile app. Please refer to Mobile App Instruction for the details.



7. MAX Mode

7.1. When the light is on in bi color mode (2700K-6500K) , shortly press MAX button, the dimmer percentage blinks (N/A in HSI mode), the light enters into MAX mode. The full power draws about 90 watts now (100 watts in case with power adapter) at 100% dimmer from 2700K-6500K color temperature. If shortly press the MAX button again back to standard mode, the dimmer percentage stops blinking, now the full power draws about 60 watts at 100% dimmer from 2700K-6500K color temperature.

V. Specifications

Model Number	PL-100RGB
Max Power Consumption	90W
Max Power Consumption (w/ power adapter):	100W
CCT	2700K-6500K ± 200K
CRI	>95
Hue	0-360°
Dimmer Range	0%-100%
Saturation	0%-100%
Type of LED	High Power RGBWW COB LED
FX Modes	20
Flash Speed	1-9
App Control	Linklite (via BT)
Remote Distance	<60M
Rechargeable Lithium ion battery	14.8V⎓ 4500mAh 66.6Wh (Equivelent to 3.7V⎓ 18000mAh)
Duration	Standard Mode: about 66 minutes Max Mode: about 45 minutes
Type C Charging	Support PD 3.0 protocol - 9V/12V/15V/20V
Overheating Protection	Once the temperature reaches to 194°F (90°C), the over heat protection will be triggered in the meantime E1 diplayed on screen.
Working Voltage	DC19V
Power Adapter	DC19V⎓ 4.73A (Optional)
Product Dimension	145*86*100mm

Bare light in Max mode

	1M	2M	3M
2700K	3300Lx	960Lx	485Lx
3200K	3520Lx	1020Lx	514Lx
5600K	4050Lx	1170Lx	585Lx
6500K	4130Lx	1210Lx	600Lx

Light with reflector in Max mode

	1M	2M	3M
2700K	13000Lx	3200Lx	1450Lx
3200K	12500Lx	3160Lx	1430Lx
5600K	10800Lx	2870Lx	1340Lx
6500K	10200Lx	2780Lx	1320Lx

	1M
R (Hue 0)	486Lx
G (Hue 120)	932Lx
B (Hue 240)	253Lx

* The above data is from Tolifo Laboratory, and the final right of interpretation belongs to Tolifo (Dongguan) Photographic Equipment Co., Ltd. All the designs and specifications are subject to change without prior notice

VI. Battery Charging

1. Low Battery

1.1 If the battery remaining level is extremely low, there is LO pops up on screen and will power off automatically.

2. Charge Battery

2.1 Type C charging voltage 5-20V, max charging power 30 watts. About 3 hours of charging is needed.
2.2 Battery Status Indication.

Fully Charged　Charging Status (Blinking)　Battery Low　Battery Extremely Low and Power Off

3. Charging via Type C or Power Adapter

3.1 Type C supports PD3.0 protocol 9V/12V/15V/20V, max charging power 30 watts.
3.2 Power adapter charging 19V⎓ 4.73A, charging power 90 watts. The power adapter is optional to buy.

Note: Please make sure to charge the battery in standard mode. If you charge the battery in MAX mode, please make sure the dimmer is less than 60%. Otherwise the battery will reject the power charge.

VII. Trouble Shooting

Display E1	Overheat protection. Please check whether the fan is running, whether the upper and lower air inlets and outlets are blocked, and ensure that the air inlets and outlets are unobstructed.
Display E2	The temperature sensor is open and needs to be repaired by professional staff.
Display E3	The DC socket input voltage is too high, please replace the standard adapter, the DC port input voltage is DC19V ± 1V.
After the DC port is plugged into the power supply, if it can only charge and cannot light up: the DC socket input voltage is too low, it can only charge, and it will be able to start normally after replacing the standard power adapter.	
If the lamp can not be powered via type C port from 100-watt charging stick or extra power bank, but can only be charged: a 20V5A type C port to DC 5521 conversion cable is required to plug into DC port of the lamp.	

VIII. What's Included

① 1. Lamp *1　② 2. Reflector *1　③ 3. Silicon Diffuser *1　④ 4. Handle Grip * 1　⑤ 5. Type C *1

Accessoires Separated to Buy

⑥ 6. Power Adapter (Optional) *1　⑦ 7. Power Cord (Optional) *1
⑧ 8. TypeC to DC 5.5mm X 2.1mm Power Cord (Optional) *1
⑨ 9. Quick Charger (Optional) *1　⑩ 10. Carry Bag(Optional) *1

FCC Statement

FCC ID： 2BAFB-PL-100RGB
Model： PL-100RGB

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
-Reorient or relocate the receiving antenna.
-Increase the separation between the equipment and receiver.
-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-Consult the dealer or an experienced radio/TV technician for help.
To assure continued compliance, any changes or modifications not expressly approved by the party.
Responsible for compliance could void the user's authority to operate this equipment. (Example- use only shielded interface cables when connecting to computer or peripheral devices).
This equipment complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) This device must accept any interference received, including interference that may cause undesired operation.

FCC Radiation Exposure Statement:
The equipment complies with FCC Radiation exposure limits set forth for uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

II. Maintenance and Precautions

1 Please keep it dry: Do not touch the product with wet hands, and do not immerse it in water or expose it to rain.
2 Do not disassemble the product yourself. If the product malfunctions, have it inspected and repaired by our company or authorized personnel.
3 Keep this product out of the reach of children.
4 This product is not waterproof. Please be cautious in rainy and humid environments.
5 Do not use the photographic light near chemicals, flammable gases, or other special substances. Pay attention to relevant warning signs in such situations.
6 Use a dry, soft cloth to clean the photographic light. You can slightly dampen the cloth with neutral cleaning agent to remove stubborn dirt, and then wipe it dry with a soft cloth.
7 It contains a built-in lithium battery. Do not disassemble, impact, crush, or expose it to fire. If severe swelling occurs, do not continue to use it. Do not place it in a high-temperature environment exceeding 40°C. Use a dedicated charger for charging and follow the operating instructions within the specified voltage and temperature range.
8 When the photographic light is not in use for an extended period, please disconnect the power.
9 If the light device wont be used for long time, please make sure it is fully charged, otherwise to charge the light once every 3 months. There might be battery life reduction if the light is out of any power in storage.
10 Please adhere to these precautions to avoid potential injuries.