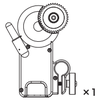
PDMOVIE

Live Air 产品手册
(PDL-AF)

产品清单：

×1
蓝牙控制器
(PDL-TC-AF/PDL-TC-AZ)


×1
Motor Mini 马达
(PD-BTM)

×2
Micro USB充电线

×2
电池

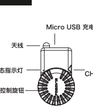
×1
电池充电座

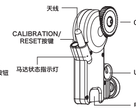
×1
热靴管夹

使用须知：

1、使用产品前，请认真阅读说明书或观看教学视频，学习产品的使用技巧。如因操作失误而造成直接或间接的不利影响，本公司将不承担任何责任；
2、请不要擅自维修或改装产品的内部结构，如因上述操作导致产品损坏或无法正常使用，本公司有权不予保修；
3、如产品在使用期间出现故障，导致产品无法使用或需要一对一调试产品时，请通过以下方式与我们联系。
电子邮箱：pd@pdmovie.com
微信公众平台：pdmovie
技术支持：15876261924

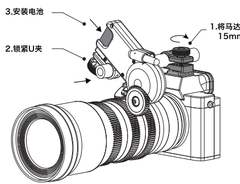
使用说明：





一、安装马达

首先将马达安装在15mm导管上，注意要卡紧马达齿轮与镜头齿轮*，然后锁紧U夹即可。**（马达如需安装在无反/单反相机上，请先安装热靴管夹）**



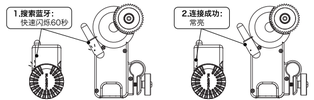
*** 注意：若用户使用的是单反镜头，镜头需要额外加装遮光环，将马达齿轮和跟焦环齿轮卡紧后，马达才能够正常驱动镜头。**

二、启动蓝牙控制器和马达

长按蓝牙控制器的ON/OFF按钮三秒，指示灯亮后松开。马达插入电池后自动开机（拔出电池后自动关机）。

三、蓝牙连接

同时开启控制器和马达后，将会自动配对，指示灯会快速闪烁。成功配对后控制器和马达的指示灯为常亮。未配对成功60秒之后会停止配对，需要手动蓝牙配对。**（手动配对/配对新马达：**需同时开启控制器和马达的蓝牙，见**表1和表3）**



***1. 控制器的稳定控制距离约为 10 米，实际控制距离受使用环境因素影响；**
2.信号较弱时马达和控制器会断开连接，信号恢复正常之后马达和控制器会自动恢复连接。

四、校准镜头行程

方法一：短按一下控制器的ON/OFF按钮，然后再长按3秒，直到马达转动时松开，马达将会自动校准镜头行程。

方法二：长按马达的Channel按钮三秒，直到马达转动时松开，马达将会自动校准镜头行程。

方法 3: 手动校准镜头行程。电池插入马达后，首先卡紧马达齿轮与镜头齿轮，手动转动镜头到起点停 0.5 秒，再转动镜头到终点停 0.5 秒，最后轻微转动将镜头回中，马达将会自动识别镜头行程。**（注意：建议使用此方法校准单反镜头的行程。）**

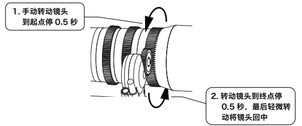


表1：控制器按钮指令

按钮点击次数	功 能
▬	ON/OFF — 开/关机
●	A-B — 镜头行程限位
●▬	CALIBRATION — 校准镜头行程
●●▬	开启蓝牙： 清除连接并重新配对
●●●●●●●	MOTOR ROTATION—切换马达转向

表2：指示灯颜色指示

剩余电量	指示灯颜色
100%～75%	白色
74%～50%	绿色
49%～25%	黄色
24%～0%	红色

表3：马达按钮指令

按钮点击次数	功 能
▬	CALIBRATION—校准镜头行程
●●●●	RESET/RECOVERY CALIBATION（POWER OUTAGE）① 清除已校准行程/断电恢复行程
●●●●●●●	MOTOR ROTATION—切换马达转向
●●●▬	BLUETOOTH ON — 开启蓝牙

①清除已校准行程时，不需要重启马达，只需按四下按钮既可重新手动设置行程；断电恢复行程：马达在使用过程中突然断电，重启后短按4下即可恢复上一次的行程。

REMOTE AIR APP

用户可以使用APP控制马达。苹果APP Store搜索“PDMOVIE”或“REMOTE AIR” 即可下载，目前仅支持IOS系统。

*** 1. 请确保控制器已关闭蓝牙。**
2. 每次打开 APP 前，需确定 APP 没有在后台运行，如在后台运行，请清理该 APP 后台，再次开启 APP 即可。

补充说明

1、在 PDMOVIE 的官网和微信公众平台可以获得 REMOTE AIR APP 的使用教程，或者也可以在 APP 内 SET 界面的 HELP 项里获取更详细的 APP 功能介绍；

2、马达标配 0.8M 的齿轮，如需 (0.4m、0.5m、0.6m) 的齿轮，可以联系售后或前往 PDMOVIE 淘宝直营店购买；

3、蓝牙控制器的正常工作时间为 8-10 小时，充电时间约为 20-25 分钟，支持使用移动电源同步充电；

4、Live Air 主要用于单人拍摄，控制器的稳定控制距离为 10 米。

注意事项

1、紧急停止校准：马达在校准过程中出现了不停转动的现象，只需要单击一下 CALIBRATION/RESET 按钮，即可终止校准；

2、Live Air Z（PDL-AZ）可以调整马达响应速度，单击五下 ON/OFF 按钮，即可切换马达相应速度，分别为慢速、中速、快速；

3、当马达出现转动的行程和校准的行程不相符的情况时，请检查蓝牙控制器的指示灯是否为蓝色和白色交替闪烁，出现蓝白交替闪烁则表示控制器设定了 A-B 点行程限位，单击一下 ON/OFF 按钮即可取消 A-B 点限位；

4、关于电池保养：长期不使用本产品时，建议每隔一个月就检查一次设备电量以确保电池有足够电量；设备长期处于低电量或无电量的状态时，会导致电池容量变小；长时间充电和放电都会对电池造成损耗，建议用户将设备电量保持在 50~74%。

关注PDMOVIE微信公众号

LIVE AIR

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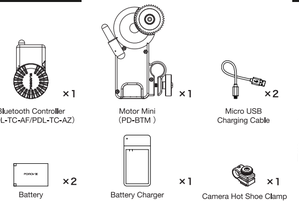
PDMOVIE

LIVE AIR
(PDL-AF)

PDMOVIE Wireless Follow Focus System

Configuration List

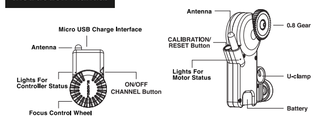


Notice For Use

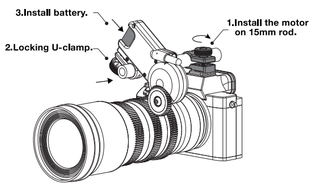
1.Before using the product, please read the instructions carefully or watch the tutorial videos to learn how to use the products properly. If there are any direct or indirect adverse effects due to operational errors, PDMOVIE will not assume any responsibility.
2.Please do not dismantle, repair or refit the internal structure of the product without authorization. If the product is damaged due to the above improper operation,PD Movie has the right to refuse product service.
3.If you need technical support or if the product has any problems, Please contact us.

E-mail: **pd@pdmovie.com**
Facebook: **www.facebook.com/pdmovie.com.cn**
Website: **www.pdmovie.com**

Instruction Manual



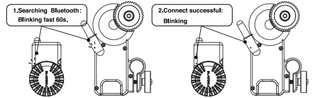
1.Install Motor
Install the motor on the 15mm rod and make sure the motor gear matches with the lens gear.(If it install on DSLR Camera lens, please use the camera hot shoe clamp.)



* **Note:** If using a DSLR camera lens,the lens will need a 0.8 lens zip gear in order to fit with the motor gear.

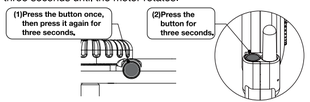
2.Turn on the Bluetooth controller and motor
Press the ON/OFF button on the Bluetooth controller for three seconds until the indicator light powers on. The motor will turn on automatically when the battery is inserted.

3.Bluetooth Connection
After the Bluetooth controller is turned on, the indicator lights will flash quickly for 60 seconds, which means the Bluetooth is searching. When the Bluetooth connection is successful, the controller indicator light will brighten.



***1.The recommended control distance of the controller is about 10 meters, although the actual control distance can be affected by environmental factors.**
2.The motor and the controller will disconnect when the signal is weak. After the signal returns to normal, the motor and controller will automatically reconnect.

4.Calibration
(1) Press the ON/OFF button of the Bluetooth controller once, then press it again and hold until the motor rotates.
(2)Press and hold the button on the bottom of the motor for three seconds until the motor rotates.



(3)Manually calibration:
A.When the motor gear and the lens gear are completely connected,turn the lens to the starting point and hold for 0.5 seconds.
B.Then turn the lens ring to the end and hold for 0.5 seconds.
C.Finally turn the lens ring back towards the center to finish. **(It is recommend that you use manual calibration when using a DSLR camera lens)**

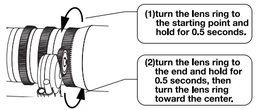


Table 1:Bluetooth controller. Instruction of button

Number of clicks on the buttons	Function
▬	ON/OFF
●	Setting AB Point
● ▬	Calibration lens stroke
● ● ● ▬	Turn on the Bluetooth
● ● ● ● ● ● ●	Switch Motor Rotation

Table 2:The color of the indicator light

Residual electricity	The color of the indicator light
100%~75%	WHITE
74%-50%	GREEN
49%-25%	YELLOW
24%~0%	RED

Table 3:Motor Instruction Table

Number of click on the buttons	Function
▬	Calibration Lens Stroke
● ● ● ●	Restore the lens stroke when power off / ① Remove the lens stroke
● ● ● ● ● ● ● ●	Switch Motor Rotate Direction
● ● ● ▬	Turn on the Bluetooth

① **Cancel the calibrated stroke:**Please press the button four times to reset the stroke manually;
Restore lens stroke when powered off: When the motor is suddenly powered off, please press the button 4 times to restart the calibration stroke.

REMOTE AIR APP

The motor can also be controled by the iOS app. Please search PDMOVIE or REMOTE AIR, then download the app from the Apple store.

1.Turn on the motor → 2.Initiate Bluetooth on phone → 3. Turn on the APP* (Automatically connects to the motor)

* **1.Please make sure the Bluetooth controller is off.**
2.Before opening the app, please make sure the app is not already running, if so, please close the app and reopen again.

Supplementary Specification
1.App introduction information or video obtained by PDMOVIE official website/ FACEBOOK/ YOUTUBE, Or find it from APP interface - "SET" - "HELP" .
2.The 0.8M gear is the standard configuration of the motor. If need 0.4M/0.5M/0.6M motors' gear, please contact the local dealer for purchasing. The dealer's contact information can be querying on **www.pdmovie.com/contact_us.**
3.The normal run time of Bluetooth controller PDL-TC-AF is 8-10 hours. If the controller battery runs out , it can use the USB5V output or other mobile power for charging. The normal charge time is 20-25 minutes.
4.The distance for Bluetooth control is 32 feet, and Bluetooth controller (PDL-TC-AF) is mainly used for a single user.

Notice
1.Emergency stop of calibration:If the motor has any problems in the calibration process, please press the CALIBRATION/ RESET button once to stop the calibration.
2.Live Air Z (PDL-AZ) can adjust the response speed of the motor, click the ON/OFF button five times to change the motor speed. The motor has slow, medium, and fast settings.
3.If the motor's calibration does not coincide with the original calibration setting, please check if the light is blinking on the controller. If the channel color is blinking white, the A-B point is set. If youwant to cancel the set A-B points, please press the ON/OFF button.
4.Battery maintenance: It is recommend that you check the battery level every month to ensure that the battery has enough power when the unit has not been turned on for more than a month. When the unit is in a low state of power for a extented period of time, it will lead to a smaller capacity of the battery. Overcharging for a long period of time will cause loss to the battery. It is recommended that the user keep the device power at 50~74%.

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LIVE AIR

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FCC STATEMENT :

This device 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.
Warning: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: 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.