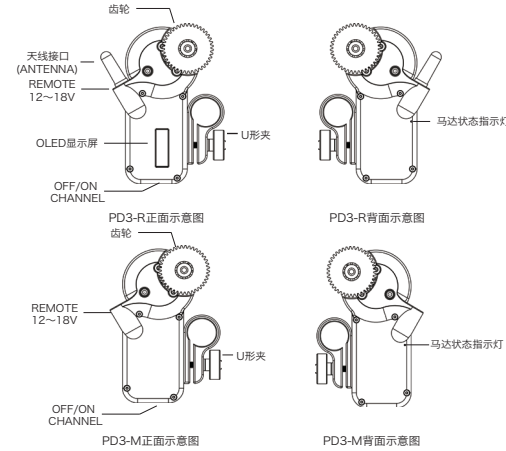


马达示意图



重要说明: 使用本产品前,请仔细阅读使用说明, 掌握REMOTE AIR 3的使用方法。

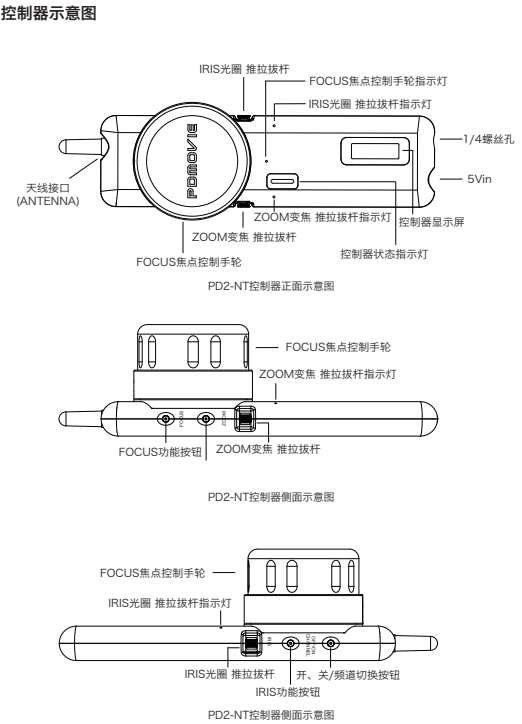
了解更多: 可以在 <http://www.pdmovie.com.cn>上找到更多信息、观看视频以及了解有关 REMOTE AIR 3功能的详细信息。

支持: REMOTE AIR 3享有免费的程序升级和一年的硬件保修期限,这些服务可在PDMOVIE经销商处获得,或直接联系PDMOVIE。

联系方式: Email: pd@pdmovie.com

如需技术支持,请随时拨打: +86 13500282830/+86 13672905004

更多动态,资讯敬请关注官方网站: www.pdmovie.com.cn



8、检测镜头行程 长按控制器的FOCUS功能按钮三秒自动检测镜头行程；如果是连接APP使用，长按APP控制界面右下角的“AUTO框”也可以自动检测镜头行程；使用PD2-N2或PD2-N3时多个马达会同时自检。

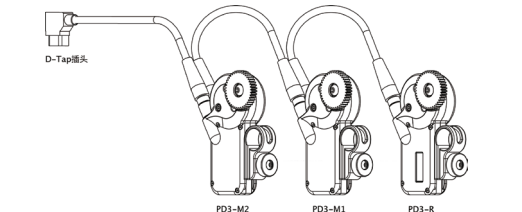
9、两种操控方式 控制方式一：转动控制器上的控制手轮和推动推拉拔杆即可控制相对应的马达。控制方式二：连接APP使用时，可通过滑动APP的控制界面内，相对应的通道栏控制马达。（注：需要连接APP使用前,先打开APP内SET界面里的HELP选项，学习如何使用APP。每次启动APP也会有相应的使用教程供您观看学习）

控制器按钮使用说明	
按钮/接口	功能
OFF/ON CHANNEL	开机、关机
	切换信号频道
FOCUS ZOOM IRIS 功能按钮	自动检测镜头行程
	切换控制通道
	镜头行程限位 (AB点)
	改变马达转动方向
	切换控制速度
ZOOM IRIS 功能按钮	调换ZOOM和IRIS当前的控制通道
	ANTENNA
5Vin	5V充电输入

使用说明

1、安装马达 将马达安装在19MM或15MM（使用转接环）导管上，同时将马达齿轮卡住镜头齿轮。

2、连接马达 使用PD2-N1时，直接将D-Tap电源线6针插头连接PD3-R的REMOTE 12~18V(6孔插座)，将D-Tap插头连接V-mount电源DC输出插座；使用PD3-N2时，先将串联马达线（6针）连接PD3-R的REMOTE 12~18V与PD3-M的REMOTE 12~18V，再将D-Tap线6针插头连接PD3-M的REMOTE 12~18V，D-Tap插头连接V-mount电源DC输出插座；使用PD3-N3时，先将一条串联马达线连接PD3-R的REMOTE 12~18V与PD3-M1的REMOTE 12~18V；再将另一条串联马达线连接PD3-M1的REMOTE 12~18V与PD3-M2的REMOTE 12~18V；最后将D-Tap线6针插头连接PD3-M2的REMOTE 12~18V，D-Tap插头连接V-mount电源DC输出插座。如下图所示：



3、安装天线 从包装箱内取出天线，分别安装在控制器ANTENNA与接收马达ANTENNA上。

4、启动控制器和马达 长按控制器的ON/OFF按钮两秒，待显示屏亮后松手；长按马达底部OFF/ON按钮两秒待接收马达显示屏亮或马达背后指示灯亮后松手。

马达按钮/接口使用说

按钮/接口	功能	操作说明
OFF/ON CHANNEL	开机、关机	长按两秒出现开关机画面后松手
	切换信号频道	短按一下
ANTENNA	天线接口	
REMOTE 12~18	信号传输与供电通用接口，支持12~18V宽电压供电	

通道指示灯颜色介绍

控制器和马达通道指示灯颜色	对应控制通道	对应控制部件
红色	FOCUS/焦点	控制手轮
绿色	ZOOM/变焦	推拉拔杆
蓝色	IRIS/光圈	推拉拔杆
黄色	备用通道1	控制手轮
青色	备用通道2	推拉拔杆
紫色	备用通道3	推拉拔杆

▲ 目前只使用红色FOCUS通道、ZOOM通道、IRIS通道。备用通道1、2、3用作未来产品功能扩展储备。若不小心切换到备用通道，双击功能按钮切换回来即可。（可参考控制器按钮/接口使用说明表）

▲ 当控制器通道指示灯一直闪烁白色时，表示该通道已被设置AB点行程限位。单击该通道指示灯相应的功能按钮即可取消AB点行程限位。（可参考控制器按钮/接口使用说明表）

控制器状态指示灯说明

指示灯颜色	红色	绿色	蓝色	青色
控制器状态	常规使用	连接蓝牙使用	常规充电	连接蓝牙充电

5、设置信号频道 查看控制器与接收马达OLED屏的显示信息，检查控制器和接收马达是否设置在同一个信号频道上。短按控制器的OFF/ON按钮和马达的OFF/ON一下可各自切换信号频道，连接成功后，控制器和接收马达均会显示信号强度数值。	
控制器显示屏显示信息：	
C	显示当前频道，可通过短按Channel键一下调节；
信号强度图标	显示控制器与接收马达连接成功后的信号强度；
T	显示控制器电池剩余电量百分比；
R	显示接收马达电量；
蓝牙图标	蓝牙连接成功图标
接收马达显示屏显示信息：	
Channel	显示当前频道，可通过短按Channel键一下调节；
Singnal Level	显示控制器与接收马达连接成功后的信号强度；
TX	显示控制器电池剩余电量百分比；
RX	显示接收马达电量；

6、连接APP 先开启iPhone/iPod touch的蓝牙功能，再打开程序“REMOTE AIR”，REMOTE AIR打开后，它会自动搜索并匹配已启动的控制器。当手机通知栏的蓝牙图标开始闪烁时，表示正在搜索蓝牙设备；当蓝牙图标呈现黑色时，表示已连接，此时程序会自动进入操控界面。蓝牙连接后，控制器的屏幕会出现蓝牙图标，蓝牙信号灯也由红色变为绿色。（APP可在苹果应用商店处搜索PDMOVIE/REMOTE AIR进行下载）▲此项为扩展功能,如只需常规使用，可跳过此项。

7、设置控制通道 控制器的控制手轮和推拉拔杆都有相对应的功能按钮和通道指示灯。双击FOCUS功能按钮将控制手轮指示灯设置为红色，双击ZOOM和IRIS功能按钮将两个推拉拔杆指示灯分别设置为绿色和蓝色。马达也有通道指示灯，双击马达底部的OFF/ON按钮将安装好的马达指示灯颜色也相应地设置为FOCUS红色、ZOOM绿色、IRIS蓝色控制通道。（可参考控制器和马达按钮使用说明表；指示灯通道颜色介绍表;）

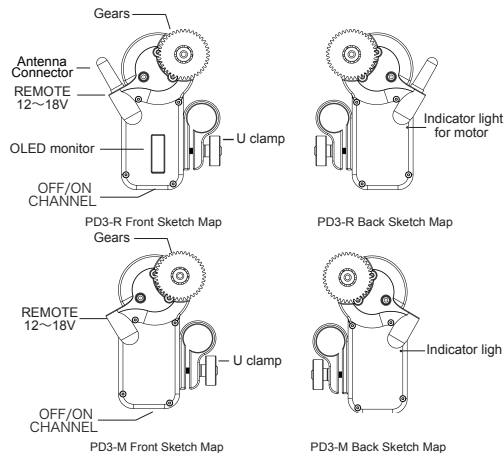
补充说明

- REMOTE AIR 3有三种不同规格的齿轮(0.4M、0.5M、0.6M),根据镜头的齿模选择合适的规格，用3MM六角匙松开螺丝并替换。（标准配置0.8M,其他规格需订购）；
- 紧急停止功能：由于马达螺母未拧紧等原因，在自检过程中可能出现马达齿轮不停空转的现象，只需短按一下马达底部ON/OFF键，马达会立即紧急停止（注意：紧急停止PD3-R时，信号频道也会同时切换）；
- 马达还有手动检测镜头行程的功能：首先马达要安装好，并且卡好在镜头齿轮上。然后启动马达，启动后，手动转动镜头的焦点、变焦、光圈FOCUS/ZOOM/IRIS往前转尽，此时马达会自动记录镜头行程的起点；再手动转动镜头的焦点、变焦、光圈FOCUS/ZOOM/IRIS往后转尽，此时马达会自动记录镜头行程的终点；最后将镜头转回中间，即完成行程检测；
- 当您使用控制器控制马达无反应的情况下，建议检查几点：
 - 查看控制器是否于接收马达处于同一个信号频道；
 - 查看控制器的通道指示灯和马达的通道指示灯颜色是否一致；
 - 使用前是否有进行镜头行程检测；
 - 是否不经意设置了AB点行程限位；
- APP与控制器连接时，APP会通过蓝牙自动搜索并配对控制器，在重启控制器时，APP也会退出并重新启动，通过蓝牙重新配对控制器。
- 控制器背部有2个1/4螺丝孔，可用于安装监视器、iPhone/iPod Touch 夹具等设备；
- 关于充电：
 - 控制器OLED屏内TX值显示电池剩余电量百分比；
 - 控制器正常使用的情况下，续航时间可长达48小时；
 - 在控制器电量不足时,可使用移动电源通过USB充电线为控制器充电；
- 关于电池保养：长期不使用时，建议每隔一段时间就检查一次控制器,保证电池有足够电量；长期低电量或者无电量的状态，会使电池内部对电子移动的阻力越来越大,导致电池容量变小;理想的状态是让电池的电量处于中间状态；
- 关于设备保存：电子元件在环境相对湿度大于60%就容易受潮,同时容易滋生霉菌,有可能使工作不正常,为了保护REMOTE AIR 3不受过于潮湿环境影响,在长时间未使用的情况下,应放入防潮箱或干燥箱内保存,将相对温度控制在35-45%；

PDMOVIE

REMOTE AIR 3 Product Manual (PD2-N1/N2/N3)

Motor



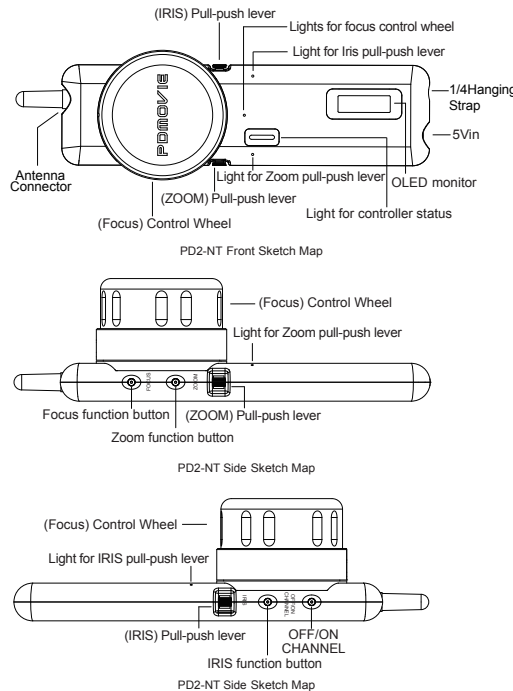
Important
Please read this document, master REMOTE AIR PRO usage, Before you first use your REMOTE AIR 3

Learn more
You can find more information, watch demos, and learn even more about REMOTE AIR 3 features at www.pdmovie.com/remoteairpro/.

Support
REMOTE AIR 3 enjoy free upgrade program and one year of hardware warranty period, you can get these services from PDMOVIE dealer.

Contact
MAIL: pd@pdmovie.com
Facebook: Pdmovie
WEB: www.pdmovie.com

Contoller



8. Calibration

Press the FOCUS function button at the controller and hold up to 3 seconds, the calibration will be done automatically. If you connect with the App, just press the AUTO button at the right bottom up to 3 seconds. All motors will be calibrated same time when you are using PD2-N2 or PD2-N3.

9. Two ways of controlling

1. Turn the wheel and the pull-push levers to controller the correspondent motors.
2. When you use with the App, you can control by slide in the app to control the correspondent motors. (PS: The HELP in the app will teach you how to use it. Or you can watch the teaching video every time you start the app)

Suitable for the switch the left and right hand

button	Function	Instructions
OFF/ON CHANNEL	Turn ON/OFF	Press for two seconds to turn ON / OFF controller
	Changing Channel	Short press once
FOCUS ZOOM IRIS	Automatic Calibrating	Press 3 seconds till the lens is rotating then let go
	Changing Control Channel	Press quickly twice
	AB point	Set Press once quickly to set A point, turn the wheel to where you want and then set B point by press once quickly again. When the lights flashing by white then the AB point is settled.
		Cancel Push once quickly to cancel the settled AB point.
	Motor forward and reverse switching	Press quickly seven times
ZOOM IRIS	Switch the speed	Press quickly five times FOCUS is set with fastest speed by default The lights always on: slowest speed The lights flash slowly: middle speed The lights flash quickly: quickest speed
	Switch channel for ZOOM and IRIS	Press quickly for three times Suitable for the switch the left and right hand
ANTENNA	Antenna connector	
5Vin	5V charging input	

3

Instruction manual

1. Motor Installation

The motor is mounted on 19 mm or 15 mm rods. For 15 mm rods use the included 19 to 15 mm rod adaptor.

2. Connecting Motors

When using PD2-N1 (Single Channel):

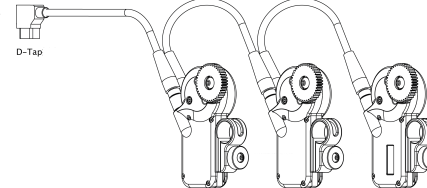
1. Connect the D-Tap power cable 6-pin aviation locking plug directly to the PD3-R REMOTE 12 ~ 18V input.
2. Then connect the D-Tap plug to a pro battery or similar power source with a D-Tap output.

When using the PD2-N2 (Dual Channel):

1. Connect the motor cable (6-pin) from the PD3-R REMOTE 12 ~ 18V connector to the PD3-M REMOTE 12 ~ 18V connector.
2. Connect the D-Tap to 6-pin aviation locking plug to PD3-M REMOTE 12 ~ 18V and connect the D-Tap plug to a pro battery or similar power source with a D-Tap output.

When using PD2-N3 (Triple Channel):

1. Connect one Motor Drive Line Cable to the PD3-R REMOTE 12 ~ 18V connector and the PD3-M1 REMOTE 12 ~ 18V connector.
2. Connect second Motor Drive Line Cable to the PD3-M1 REMOTE 12 ~ 18V connector and the PD3-M2 REMOTE 12 ~ 18V connector.
3. Connect the D-Tap to 6-pin plug to the PD3-M2 REMOTE 12 ~ 18V connector and Then connect the D-Tap plug to a pro battery or similar power source with a D-Tap output.



3. Installing the Antennas

Three antennas are included in the package. Install one on the hand control unit. Install one on the PD3-R Receiver Motor. The third antenna is an extra.

4. Powering On

To power on the Hand Controller Unit, press the OFF / ON button on the bottom of the unit for two seconds until the screen lights up. To power on the motor, press the ON / OFF button on the bottom for two seconds until the indicator lights up.

1

Manual for buttons/ connectors on the motors

Button	Function	Instructions
OFF/ON CHANNEL	Turn ON/OFF	Press for two seconds to turn ON / OFF motors
	Changing Channel	Short press once
ANTENNA	Antenna connector	
REMOTE 12~18	Signal and power supply common interface, supports power supplies with 12 ~ 18V voltage range	

Introduction for the channel lights

The color for the channel lights on controller and motors	Correspondent channels	Correspondent parts
RED	FOCUS	(Focus) Control Wheel
GREEN	ZOOM	(Zoom) Pull-push lever
BLUE	IRIS	(IRIS) Pull-push lever
YELLOW	Spare channel 1	(Focus) Control Wheel
CYAN	Spare channel 2	(Zoom) Pull-push lever
PURPLE	Spare channel 3	(IRIS) Pull-push lever

▲ For now only FOCUS, ZOOM, IRIS channel is using. Spare channel 1, 2, 3 is for future products expand only. If change to spare channel by accident, press the function button twice to switch back (See Specification for controller button/connectors)

▲ When the lights flashing in white, it means the AB point has been set up. Press the correspondent function button once, AB point will be canceled. (See Specification for controller button/connectors)

Control Unit Status Indicator Lights

Indicator	RED	GREEN	BLUE	CYAN
Status	Unit is powered on	Unit is powered on and synched with your device via Bluetooth	Unit is charging	Unit is synched via Bluetooth and being charged at the same time

4

5. Set the Channel

Check the info at the OLED monitor on the controller and master motor to see if they are at the same signal channel. Press ON/ OFF button quickly on the controller and master motor, you can change the channel. After it is connected, both controller and motor will show the data of the signal.

How to read the info on the OLED monitor from the controller

C	The signal strength of controller and mater motor connected successfully
	Shows current Channel in use, short press on OFF/ON Channel button to change channel
T	The controller battery charge remaining percentage
R	Receiver voltage
	Bluetooth connected successfully

How to read the info on the OLED monitor from the master motor

Channel	The signal strength of controller and mater motor connected successfully
Singnal Level	Shows current Channel in use, short press on OFF/ON Channel button to change channel
TX	The controller battery charge remaining percentage
RX	Receiver voltage

6. Connect the App

Turn on the Bluetooth at your iPhone/ iPod touch, start the app "REMOTE AIR", it will search and match the controller automatically. It is searching the device when the bluetooth icon is flashing; it is connected if the icon turn dark. Then you can see the control interface. After the bluetooth is connected successfully, you can see the bluetooth icon from the OLED monitor at the controller, the light will turn from red to green. (You can download the app at app store by searching keyword of PDMOVIE/ REMOTE AIR)

▲ This function is for expand use. Just pass this if you just need regular use.

7. Set control channel

There are correspondent function button and channel lights for the wheel and push-pull levers. Press the function button at FOCUS quickly for twice, the controller lights can be turned to red. Press the function button at ZOOM/ IRIS quickly for twice, the lights can be turned on green and blue. There are also channel lights for the motors. Press the ON/OFF button quickly twice at the bottom of the motors, the lights can be set as FOCUS (red), ZOOM (green), IRIS (blue).

2

Supplementary instruction

- 1) There are 3 different gears for REMOTE AIR 3 (0.4M, 0.5M, 0.6M), Choose the suitable one according to the different lenses and replace by 3MM hexagon wrench. (Standard configuration is 0.8M, other size need extra order.)
- 2) Emergency stop: Some reasons like the motors screws are not tightened enough will cause the gears no stop running during calibration. Only need to press the ON/OFF button at the bottom of the motors.
- 3) The calibration can be made manually: Firstly you need to install the motors and align the gear at the camera gear. Start the motors, then turn the iris, zoom or focus to one end manually, then turn the 3 channels to the other end, the motors will record the start and end automatically. Then the calibration is finished.
- 4) If the motors got no response when you use the controller, please check below:
 - ① please check if the controller and master motor with same signal channel
 - ② please check if the channel lights are fit with motors lights
 - ③ please check if the calibration is done or not
 - ④ please check if the AB point is set
- 5) When the app connect with the controller, it will search and match the controller automatically. When you restart the controller, you need to restart the app and rematch to the controller as well.
- 6) There are 2 1/4 screw holes to install the monitor, iPhone/ iPod Touch clasp etc
- 7) How to charge:
 - ① The TX in the OLED monitor of the controller means how much power left.
 - ② Under normal usage, the power can last for 48 hours.
 - ③ You can use power bank to charge the controller by USB when the power is not enough.
 - ④ About how to keep the battery long life use: If you will not use the device for a long time, we suggest you can check your controller once in a while to make sure the power is full. It will do harm for the battery if it is no power or low power situation for a long time. It's best to make the power in a middle status.
- 8) How to preserve the device: Electronic elements will be affected with damp and mildew under the relative humidity is over 60%. It might cause problems for the device. Pls keep REMOTE AIR 3 into our case or any moisture-proof box so that the humidity can between 35-45%

5

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.

RF warning statement:

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.