

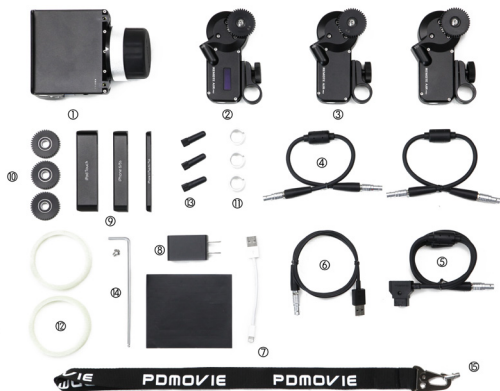
# PDMOVIE

REMOTE AIR PRO Product Manual

Welcome to your new REMOTE AIR PRO



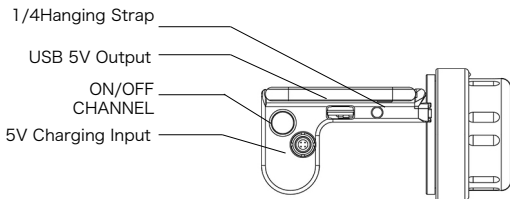
## The detailed configuration



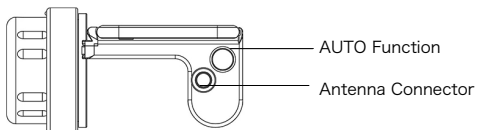
## REMOTE AIR PRO - What's Included

No.	Item	PD3-P1	PD3-P2	PD3-P3
1	Integrated hand control unit	1	1	1
2	Receiver / Master motor (PD3-R)	1	1	1
3	Slave Motor (PD3-M)	—	1	2
4	Motor Drive Line Cable (6pin)	—	1	2
5	D-Tap Power Cable (6 pin)	1	1	1
6	USB Charging Cable (4pin)	1	1	1
7	Lightning to USBconnecting Cable	1	1	1
8	USB Charger	1	1	1
9	iPhone 6 / 6s Clamp iPhone 6 Plus / iPhone 6s Plus Clamp iPod Touch Clamp	3	3	3
10	Gear Kit (0.4M, 0.5M, 0.6M)	1	1	1
11	15mm / 19mm Adapter Ring	1	2	3
12	Glow in the Dark Marking Disk	3	3	3
13	Antenna	3	3	3
14	3mm Hex Key (M5 screw - 1pc)	1	1	1
15	Lanyard	1	1	1

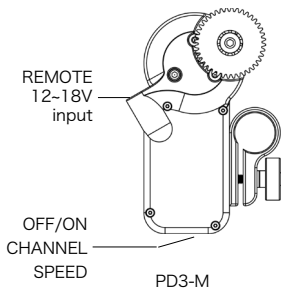
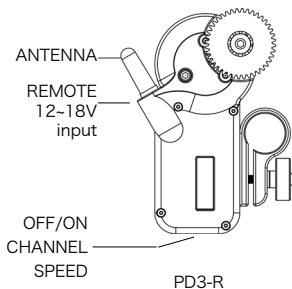
## Schematic diagram



Controller Bottom Diagram



Controller Top Diagram





#### 4. 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.

#### 5. Powering On

To power on the Hand Controller Unit, press the ON / OFF 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.

#### 6. Adjusting channel

When you power on the Hand Control Unit the OLED display on the back shows status information. The first line displays the current channel. The channel on the Hand Control Unit MUST match the channel on the PD3-R Receiver Motor. If they do not you can short press the OFF / ON Channel on either unit multiple times until the channel number matches.

#### Hand Control Unit OLED Display Information:

2.4G	2.4GHZ wireless network
Channel	Shows current Channel in use, short press on OFF/ON Channel button to change channel
Signal Level	It displays the signal strength of the Hand Control Unit and the receiver when interworking
TX	The controller battery charge remaining percentage
RX	Receiver voltage
5V or 0V	OLED screen display USB5V in the upper right corner of the controller output; 5V means USB5V output is ON; 0V means USB5V output is OFF

#### 7. Remote Air App

Download App from the Apple App Store (Search for Remote Air)

Make sure you have the latest version of iOS and Bluetooth enabled on your device

Make sure that your motors and the hand control unit are powered on and on the correct channel.

Run the app. If you have your motors and Hand Control Unit on it will enter into the main menu.

To confirm that your device is communicating with Remote Air Pro the indicator lights at the bottom of the Hand Control Unit will turn from red to green.

#### 8. Calibrating Lens

Make sure that your motors are properly and securely attached to your camera rig and in contact with your lens. Long press (3 seconds) the "AUTO" button on the top left side of the hand control unit. You can also press the "AUTO" button that is located on the bottom right side of the main menu on the Remote Air App. When using PD3-P2 or PD3-P3 the multiple motors will simultaneously self-test.

#### 9. App Control Interface

The main control interface of the app contains three columns that represent the three channels. (ZOOM, IRIS, FOCUS) In order to enable control of these channels you can touch on the words ZOOM, IRIS, or FOCUS. When they appear gray it indicates that the channel is turned on and active in the app. When the channels are active you can control the motors by simply sliding your fingers in the respective column. When they appear black, then the channel is OFF and cannot be controlled via the app. (To learn about the functions of APP control interface, go to the bottom right corner APP SET, click HELP to view.)

## 10. Types of Control Methods



Focus Wheel Control: In order to use the focus wheel you must either not be using the app and be in single channel mode OR if synced with the app you must have the focus channel turned off in the app.

App control interface: When the ZOOM, IRIS, FOCUS channels are highlighted grey in the app interface, it means you can use the touch screen to control the motor that corresponds to the different channels.


### Motor Button Functions

Button	Function Description
ON/OFF CHANNEL SPEED	Power ON: Press for two seconds until the indicator light turns on Power OFF: Press for two seconds until the indicator light turns off
	Short press button to switch channels
	Speed mode and channel switching (see table below for reference)
ANTENNA	Antenna connector
REMOTE 12~18V	Signal and power supply common interface, supports power supplies with 12 ~ 18V voltage range













### Motor channel switching table

Fast and Short Press Motor SPEED Button	Motor Channel	Indicator Light Color	Channel in App
	R1	RED	FOCUS
	G2	GREEN	ZOOM
	B3	BLUE	IRIS
	Y4	Yellow	Channel 4
	C5	Cyan	Channel 5
	P6	Purple	Channel 6

### Motor Speed Mode Switching

Fast short press motor SPEED key	Motor Speed	LED Blinking Frequency
	Fast (High torque)	Fast Flashing
	Medium (moderate torque recommended for FOCUS)	Slow Flashing
	Slow (less torque, it is recommended for ZOOM)	Steady

## Hand Control Unit Controller Buttons Description

Button	Function	Instructions			
ON/OFF CHANNEL	Turn ON/OFF	 Press for two seconds to turn ON / OFF controller			
	Changing Channel	 Short press once			
AUTO	Automatic Calibrating	 Press 3 seconds till the lens is rotating then let go			
	Motor forward and reverse switching	 Continuous press 5 times			
	Manually set the (AB point)	<table border="1"> <tr> <td>Set</td> <td>  Press 2 times: first short press, then long press and hold, turning the handle while holding long press to set AB point, after the completion then release</td> </tr> <tr> <td>Cancel</td> <td> Continuous 2 short press to cancel previous setting</td> </tr> </table>	Set	  Press 2 times: first short press, then long press and hold, turning the handle while holding long press to set AB point, after the completion then release	Cancel
Set	  Press 2 times: first short press, then long press and hold, turning the handle while holding long press to set AB point, after the completion then release				
Cancel	 Continuous 2 short press to cancel previous setting				
5V	5Vcharging input				
ANTENNA	Antenna connector				

## Hand Control Unit Status Indicator Lights

Indicator	RED	GREEN	PURPLE	GREEN
Status	Unit is powered on	Unit is powered on and synched with your device via Bluetooth	Unit is charging (Use aviation locking plug to USB cable)	Unit is synced via Bluetooth and being charged at the same time





## **Additional information**

1) When the iPhone / iPod touch is running low, you can use the included Lightning to USB cable to connect the device to the Hand Control Unit's USB 5V charging output interface. 5V will show on the top right corner of the OLED display on the hand control unit when it's active. When the Hand Control Units internal battery becomes low it will shut the 5V output off to save battery. When this happens the top right hand side of the OLED display will show 0V. The Hand Control Unit has a built-in 6000mAH battery. This about twice the capacity of the iPhone 6 Plus, three times the capacity of the iPhone 6 and about five times the capacity of the iPod Touch. This data is only for reference only.

2) REMOTE AIR PRO is equipped with three different size lens pitch gears (0.4M, 0.5M, 0.6M), Choose the right size that fits your lens gear pitch. Use the included 3mm hex key to remove and re-attach the gears.

3) Emergency stop function: If you run into a situation where the motors are behaving erratically. Short press the ON / OFF button on the bottom of the motor and it will immediately stop (note: emergency stop on PD3-R and all the connected motors will stop as well.).

4) When you launch the app it will automatically search and sync with the Hand Control Unit. If you turn off the Hand Control Unit during use you will also have to re-launch the app.

### **5) Power Supply and Charging**

- When the USB5V output is not in use the battery life is up to 60 hours.
- The Hand Control Unit's OLED screen displays the percentage of the remaining battery life.
- When the Hand Control Unit is running low, you can use a power bank to charge via 5V IN
- When the unit is not in use for extended periods of time it is recommended that you check the battery at regular intervals. Check to ensure that the battery has enough power. Keeping the battery low or completely drained for extended periods of time can decrease the life span of the batteries.

6) Equipment Maintenance: Whenever possible strive to store the Remote Air Pro in a relatively dry environment. When electronic components are exposed to humidity greater than 60% it becomes easier for them to develop moisture or mold and it can cause damage. If the unit will not be in use for an extended period of time make sure you store it in the waterproof case they shipped in and with the packet of desiccant that was included. This will ensure a long and trouble free life.

**Important**

Please read this document, master REMOTE AIR PRO usage, Before you first use your REMOTE LIVE.

**Learn more**

You can find more information, watch demos, and learn even more about REMOTE AIR PRO features at [www.pdmovie.com/remotearpro/](http://www.pdmovie.com/remotearpro/).

**Support**

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

**Contact**

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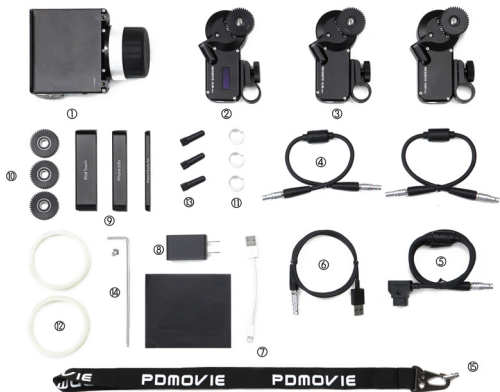
**PDMOVIE**

REMOTE AIR PRO入门指南

欢迎使用REMOTE AIR PRO



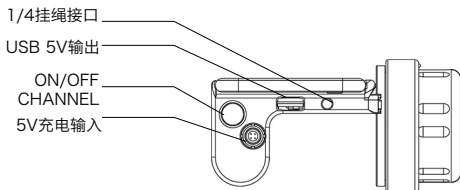
## REMOTE AIR PRO配件细节图



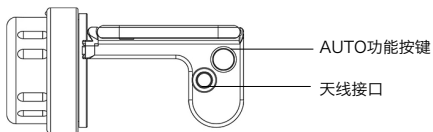
## REMOTE AIR PRO配置清单

编号	名称	PD3-P1	PD3-P2	PD3-P3
1	一体化控制手柄	1	1	1
2	接收马达 (PD3-R)	1	1	1
3	串联马达 (PD3-M)	—	1	2
4	串联马达线 (6针)	—	1	2
5	D-Tap电源线(6针)	1	1	1
6	USB充电线 (4针)	1	1	1
7	Lightning to USB 连接线	1	1	1
8	USB充电器	1	1	1
9	iPhone 6s(6)/6s Plus(6 Plus)/ iPod touch夹具 (配防滑贴纸)	3	3	3
10	齿轮套装 (0.4M、0.5M、0.6M)	1	1	1
11	15MM/19MM转接环	1	2	3
12	夜光标记环	3	3	3
13	天线	3	3	3
14	3MM六角匙 (配M5螺丝一粒)	1	1	1
15	挂绳	1	1	1

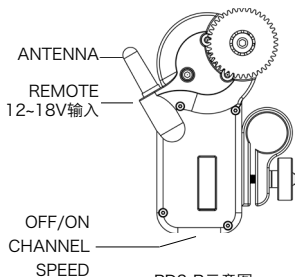
## 机身按键接口示意图



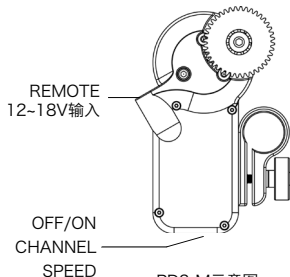
控制器底部示意图



控制器顶部示意图



PD3-R示意图



PD3-M示意图

## 使用说明

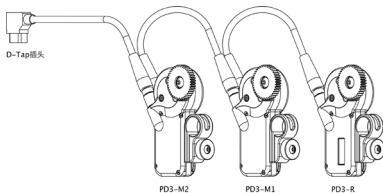
**1、安装马达** 将马达安装在19MM或15MM（使用转接环）导管上，同时将马达齿轮卡住镜头齿轮。

## 2、连接马达

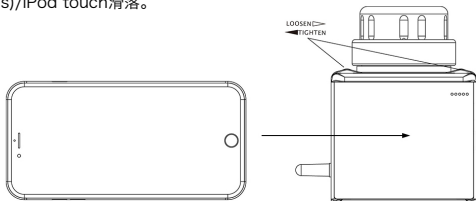
使用PD3-P1（型号见配置清单）时，直接将D-Tap电源线6针插头连接PD3-R的REMOTE 12~18V(6孔插座)，将D-Tap插头连接V-mount电源DC输出插座；

使用PD3-P2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-P3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、安装控制器** 根据您所使用的iPhone 6s(6)/6s Plus(6 Plus)/iPod touch型号，从包装盒内取出对应的夹具。从控制器上安装和拆出夹具时，两螺母必须同时向一个方向旋转，同时向右上为松开，同时向左为锁紧（以下图所示方向为准），将iPhone 6s(6)/6s Plus(6 Plus)/iPod touch从控制器上方推入夹具中，接着锁紧两螺母，以免iPhone 6s(6)/6s Plus(6 Plus)/iPod touch滑落。



**4、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。

**5、开启控制器和马达** 开启控制器时，长按控制器底部ON/OFF键两秒待屏亮后松手；开启马达时，长按马达底部ON/OFF键两秒待马达背后指示灯亮后松手。

**6、调节频道** 查看控制器与接收马达OLED屏信息，短按控制器CHANNEL键，将信号频道调至与接收马达同一个频道上。如下表所示：

2.4G	2.4GHZ无线网络
Channel	显示当前频道，可通过短按Channel键调节；
Signal Level	显示控制器与接收马达互通时的信号强度；
TX	控制器电池剩余电量百分比；
RX	接收器电压；
5V or 0V	控制器OLED屏右上角显示USB5V输出：5V开启USB5V输出；0V关闭USB5V输出；

**7、连接APP** APP有两种下载方式：一、从应用商城APPSTORE搜索并下载程序“REMOTE AIR”；二、从网站<http://www.pdmovie.com.cn/download/>下载程序“REMOTE AIR”（具体安装步骤请在该页面下载并参照《安装说明》）。安装后，先开启iPhone/iPod touch手机蓝牙功能，再打开程序“REMOTE AIR”，REMOTE AIR打开后，它会自动搜索并匹配已开机的控制器。当手机通知栏的蓝牙图标出现闪烁时，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，控制器底部的指示灯由红色变为绿色。

**8、检测镜头行程** 可以通过长按三秒控制器的“AUTO”按键或APP界面右下角的“AUTO”对镜头进行行程检测；使用PD3-P2或PD3-P3时，多个马达会同时自检。

**9、APP控制界面** APP界面三列（ZOOM、IRIS、FOCUS）分别代表三个通道，点击ZOOM、IRIS、FOCUS，当它们显示灰色时，说明在APP里该通道已开启，可以进行触屏操控；当它们显示黑色时，则说明在APP里该通道已关闭，不能进行触屏操控。通道开启后，上下滑动右侧控制区域来控制该通道所对应的马达。（若要了解APP操控界面的各项功能，请进入APP右下角SET，点击HELP查看。）

**10、两种操控方式** 一、使用控制器手轮控制：当APP界面的FOCUS显示黑色时，表示已关闭APP界面操控，可使用控制器手轮控制显示灯为红色的马达（马达所在通道请参照《马达通道切换表》）；二、使用APP控制界面控制：当APP界面的ZOOM、IRIS、FOCUS显示灰色时，表示可以使用APP触屏控制三个通道对应的马达。



## 马达按键接口使用说明

按键接口	功能说明
ON/OFF CHANNEL SPEED	开机：长按两秒待指示灯亮后松手；关机：长按两秒待指示灯熄灭后松手
	短按一下，切换通道
	速度模式与通道切换（操作方法参照通道切换与速度模式切换）
ANTENNA	天线接口
REMOTE 12-18V	信号与供电通用接口，支持12-18V宽电压供电

## 马达通道切换表

快速短按马达SPEED键	马达通道	马达指示灯颜色	对应APP通道
● ●	R1	红色RED	FOCUS
	G2	绿色GREEN	ZOOM
	B3	蓝色BLUE	IRIS
● ● ●	Y4	黄色Yellow	通道4
	C5	青色Cyan	通道5
	P6	紫色Purple	通道6

## 马达速度模式切换

快速短按马达SPEED键	马达转动速度	对应指示灯闪烁频率
● ● ● ● ●	快速（较大扭力）	快闪
	中速（中等扭力，建议FOCUS使用）	慢闪
	慢速（较小扭力，建议ZOOM使用）	常亮



## 控制器按键使用说明

按键接口	功能	操作说明
ON/OFF CHANNEL	开机、关机	●●●● 长按两秒出现开关机画面后松手
	切换频道	● 短按一下
AUTO	自动检测行程	●●●● 长按三秒待镜头转动后松手
	马达正向与逆向切换	●●●●●● 连续短按五下
	手动设置行程 (AB点)	设置
撤消		●● 连接短按两下，撤消手动设置好的行程；
5V	5V充电输入	
ANTENNA	天线接口	

## 控制器指示灯说明

指示灯颜色	红色	绿色	紫色	青色
状态	常规使用	连接蓝牙使用	常规充电	连接蓝牙时充电



## 补充说明

1、当iPhone 6s(6)/6s Plus(6 Plus)/iPod touch电量不足时，可使用Lightning to USB 连接线将iPhone 6s(6)/6s Plus(6 Plus)/iPod touch连接到控制器USB 5V输出接口进行充电，控制器OLED屏右上角显示5V，表示开启5V输出；控制器OLED屏右上角显示0V，表示关闭5V输出，控制器恒定输出为5V/1A。当控制器OLED屏内TX电量显示低于一定值时，程序自动关闭5V输出。

2、REMOTE AIR PRO配备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。

3、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转动的现象，此时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，频道也会同时切换）。

4、应用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，应用APP也需退出并重新启动，再次通过蓝牙搜索配对控制器。

5、关于充电供电：

1) 控制器OLED屏内TX值显示电池剩余电量百分比；

2) 在iPhone 6s(6)/6s Plus(6 Plus)/iPod touch电量不足时，可使用控制器为iPhone 6s(6)/6s Plus(6 Plus)/iPod touch充电；控制器内置6000mAH的超大容量电池，可为iPhone 6s Plus(6 Plus)提供约2次充电，为iPhone 6s(6)/提供约3次充电，为iPod touch提供约5次充电（此数据仅供参考）；

3) 在不使用USB5V输出的情况下，续航时间可长达60小时；

4) 在控制器电量不足时，可使用移动电源通过USB充电线直接给控制器充电。

6、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，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；充电充的越满或放的越尽都会对电池造成损耗，理想的状态是让电池处于电量的中间状态。

5、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 PRO不受潮湿天气影响，在长时间未使用的情况下，应放入防潮箱或干燥箱内保存，将相对湿度控制在35-45%。

**重要说明:**

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

**了解更多:**

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

**支持:**

REMOTE AIR PRO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](mailto:pd@pdmovie.com)

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