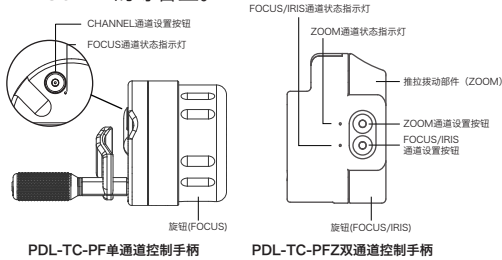


1.安装控制手柄

将控制手柄PDL-TC-PF或PDL-TC-PFZ安装到15mm－30mm的导管上。



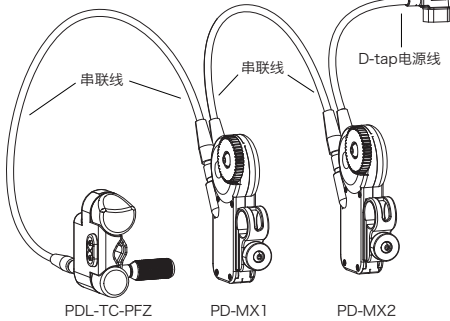
2.安装马达

将马达安装在19mm或15mm（搭配转接环）导管上，将马达齿轮卡住镜头齿轮。

3.连接控制手柄和马达

①.使用PDL-TC-PF时，先将串联线的6针插头分别连接到控制手柄和串联马达(PD-MX)的6孔插座(REMOTE 7-20V)，然后将D-Tap电源线6针插头连接串联马达的另一个6孔插座(REMOTE 7-20V)，最后D-Tap插头连接V-mount电源DC输出插座；

②.使用PDL-TC-PFZ时，先用串联线连接两个串联马达(PD-MX)，然后用另一条串联线分别连接到控制手柄和串联马达(PD-MX1)。将D-Tap供电线的6针插头连接串联马达(PD-MX2)6孔插座(REMOTE 7-20V),最后将D-Tap插头连接V-mount电源DC输出插座。(具体参考下图)



4.开启马达

马达和控制手柄无需开/关机，接通电源即自动开启，断电即自动关机。
(具体操作参照通道切换表、功能说明表)

5.检测镜头行程

①.使用PDL-TC-PF时，长按控制手柄上的CHANNEL键3秒,马代会自动对镜头进行行程检测；
②.使用PDL-TC-PFZ时，长按控制手柄上ZOOM键或者 FOCUS/IRIS 键3秒对镜头进行行程检测,自检时两个马代会同时转动。

6. 控制手柄操作

转动控制手柄的转轮或移动推动拔杆，即可控制马达并调节镜头的对焦、变焦或光圈；
①. 使用 PDL-TC-PF 时，建议控制手柄与串联马达的指示灯均切换为红色；
②. 使用 PDL-TC-PFZ 时，建议控制手柄面板左侧指示灯与串联马达 PD-MX1 的指示灯均切换为红色，右侧指示灯与串联马达 PD-MX2 的指示灯均切换为绿色（具体操作请参照通道切换表、功能说明表）；
③. 同时使用 PDL-TC-PF 和 PDL-TC-PFZ 时，建议 PDL-TC-PF 的指示灯切换为红色 ,PDL-TC-PFZ 面板上左侧 FOCUS/IRIS 指示灯切换为蓝色，右侧 ZOOM 指示灯切换为绿色。

7.控制手柄按键接口使用说明

按键接口	功能	操作说明	
	自动检测行程	长按3秒自动检测镜头行程	
CHANNEL	手动设置行程(AB点)	设置	短按一下按钮设置 A 点，转动控制器的转盘或拨动推拉部件确定行程后，再短按一相对应通道按钮设置 B 点。
		撤销	短按一下，撤销AB点。
	切换控制通道	●●	短按2下切换控制通道(也等于切换指示灯颜色)
	ZOOM FOCUS IRIS	●●●●●	短按ZOOM按键5下可以调节推拉拨动部件控制马达的转动速度(转盘转动时马达的转动速度可在马达上调节。具体可参考马达转动速度切换表)
		●●●●●●●	短按7下切换马达转动方向(改变镜头转向)
REMOTE 7-20V	控制信号传输、供电通用6针插座，支持7-20V电压供电。控制手柄和马达都有此插座。		

8.马达使用说明

① 马达按键接口使用说明

按键/接口	功能说明
CHANNEL SPEED	马达转动速度和通道切换 (操作方法参照通道切换与马达转速度切换表)
REMOTE 7-20V	控制信号传输与供电通用6针插座 支持7-20V电压供电。控制手柄和电机都有此插座。

② 马达转动速度切换

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）	慢闪
	慢速（较小扭力）	常亮
注：马达受控于PDL-TC-PFZ的推拉部件时，快速短按马达的SPEED键不会改变马达的转动速度，只会改变马达的响应速度。（在这种情况下，如需设置马达的转动速度，请短按控制手柄ZOOM键5下。）		

9.控制手柄和马达通道切换表

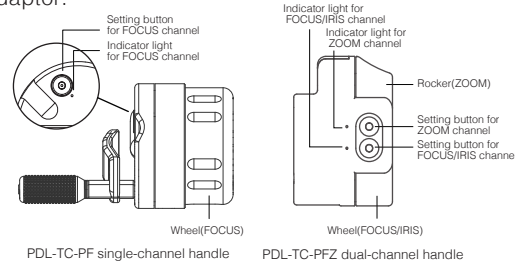
控制手柄和马达 SPEED键	控制手柄/ 马达通道	控制手柄/马达 指示灯颜色	对应通道
●●	R1	红色	FOCUS
	G2	绿色	ZOOM
	B3	蓝色	IRIS
●●●	Y4	黄色	通道4
	C5	青色	通道5
	P6	紫色	通道6



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1. Installation Of Controller

Please install the controller (PDL-TC-PF or PDL-TC-PFZ) to the (15mm-30mm) catheter with the adaptor.



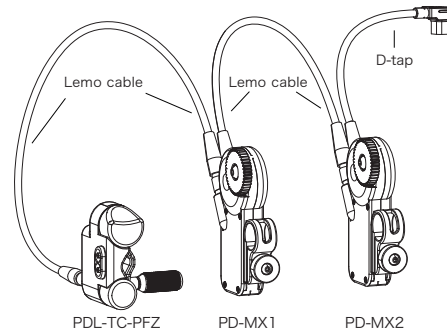
2. Installation Of Motor

Please install the motor to the catheter (15mm-30mm) then match in the lens gear.

3. Connection Of Controller With Motor

①For using the controller (PDL-TC-PF) : Please let the motor and handle control connect with Lemo cable .Then let the D-TAP cable connect the motor with the D-tap output on the V-Mount Battery .

②For using the controller (PDL-TC-PFZ) ,please follow the steps below : FIRST let Lemo cable connect the motor(PD-MX1&2) , SECOND let the other lemo cable connect the handle control and the motor (PD-MX1). THEN let the D-tap cable to connect the motor (PD-MX2)and the socket (REMOTE 7-20V). LAST let the D-Tap cable connect the motor with the D-tap output on the V-Mount Battery.



4.Motor start up

The motor do not need to turn on and off, cause it will turn on automatically when it have power supply and it will turn it off when power outage.(To know more detail please check with the instruction No.7 & 8.)

5. Calibrate Lens Stroke

The controller PDL-TC-PF and PDL-TC-PFZ do not have ON/OFF button and it will turn on automatically when power supply.

① For the controller PDL-TC-PF : Press the CHANNEL button for 3 seconds for calibrate.

7.Instruction of controller

Button & Socket	Functions	Instruction	
	Automatically Calibrate Stroke	Press and hold the button for 3 second	
CHANNEL	Manual Setting (AB Point)	Set	Setting: Please turn the lens to the A point and press the button (FOCUS/ZOOM/IRIS) on the controller for setting A point. Then turn the lens to the B point and press the button again for setting B point.
		Cancel	Cancel : After "setting", press the button (FOCUS/ZOOM/IRIS) on the controller for cancel the AB point.
	ZOOM	Switch Channel	Double click the button (FOCUS/ZOOM/IRIS) for changing channels which mean switch the indicator light color.
	FOCUS IRIS	Switch Rotation Speed of Motor	Press the button(ZOOM) on the controller (PDL-TC-PFZ) five times for adjust the speed of motor. Press the button on the motor for adjust the speed. (Instruction 8.2 to see more details)
		Switching the rotation direction of the motor	Press 7 times, the direction that the motor run will turn opposite. (Also change the direction of the lens)
REMOTE 7-20V	The socket on the controller and motor support signal transmission, power supply and 7-20 voltage.		

8.Instruction Of The Motors

①.Motor Button Instruction

The Button Interface / Motor Button	Functions
CHANNEL SPEED	Motor rotation speed and channel switching (refer to channel switching and motor speed switching table)
REMOTE 7-20V	Control signal transmission, universal 6-Pin socket for power supply, support 7-20 voltage supply. The 7-20V controller and the motor have the socket.

②.Switching Motor Rotation Speed

Quickly press the SPEED button on the motor	The rotation speed of motors	The flashing frequency of the corresponding indicator lights
	Fast (Hard torsion)	Fast Flash
	Normal (Normal torsion)	Normal Flash
	Slow (Light torsion)	Slow Flash

②For the controller PDL-TC-PFZ : Press and hold the ZOOM button or FOCUS IRIS button for 3 seconds for calibrate. Then two of the motors' will work at the same time when it calibrating.

6. Operation For Controller

Switch the controller hand wheel or Rocker to control the FOCUS/ZOOM/IRIS.

①When using the PDL-TC-PF please be sure the indicator light on the controller and motor are in the same color. (Recommend both on red.)

②)When using the PDL-TC-PFZ please be sure that the indicator light (Left side) on the controller and motor (PD-MX1) are in the same color. (Recommend both on red.); please be sure that the indicator light (Right side) on the controller and motor (PD-MX2) are in the same color. (Recommend both on green.)

③When using the PDL-TC-PF and PDL-TC-PFZ please be sure that the indicator lights on the PDL-TC-PF and motor (PD-MX1) are in the same color. (Recommend both on red.); the indicator light (Left side) on the PDL-TC-PFZ and motor (PD-MX2) are in the same color. (Recommend both on blue.); And the indicator light (Right side) on the PDL-TC-PFZ and motor (PD-MX3) are in the same color. (Recommend both on green.)

9. Controller And Motor Switching Channel Table

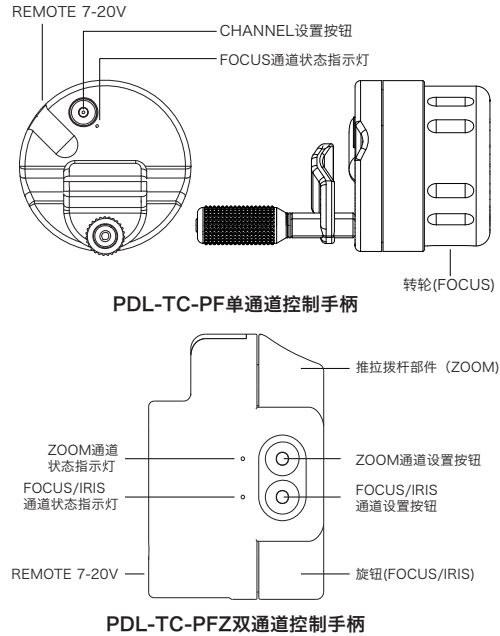
The SPEED Button On The Controller And Motor	Controller/ Motor Channels	The Color of Motors' Indicator Lights	Corresponding Channels
	R1	RED	FOCUS
	G2	GREEN	ZOOM
	B3	BLUE	IRIS
	Y4	YELLOW	Not enabled
	C5	CYAN	Not enabled
	P6	PRUPLE	Not enabled



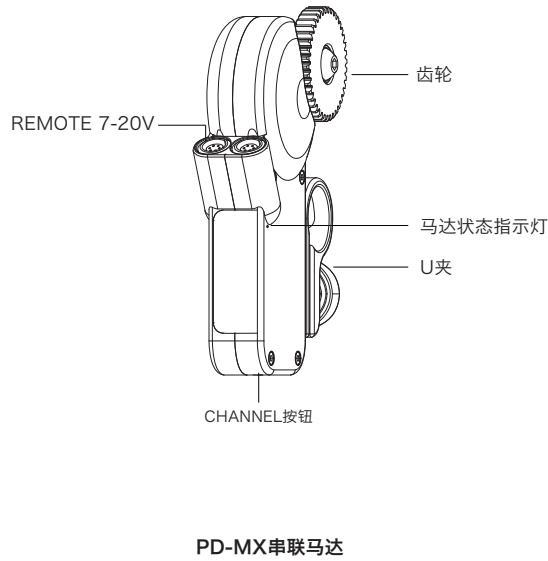
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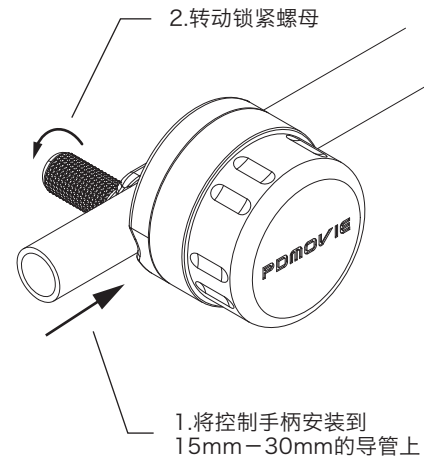
控制手柄



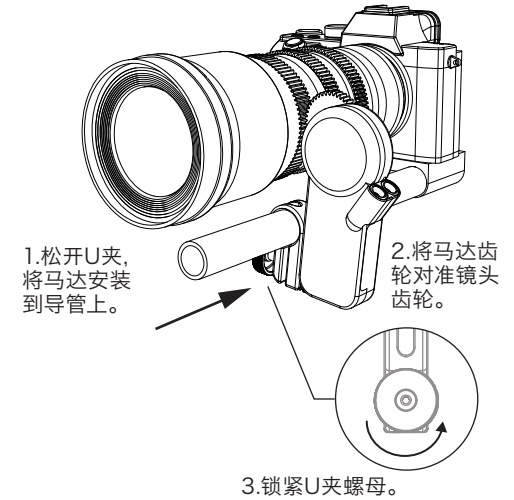
马达



1. 安装控制手柄



2. 安装电机

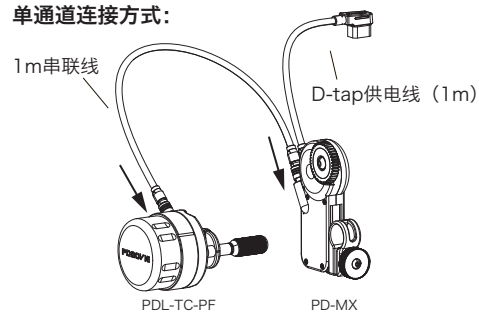


注意事项:

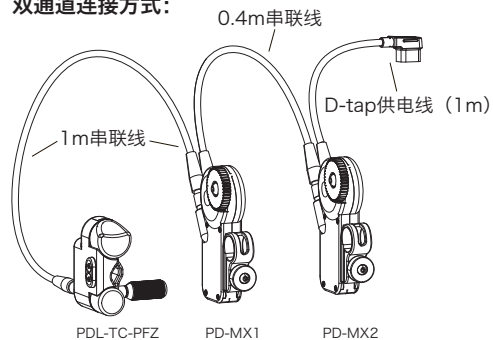
- ① 马达齿轮适用大部分的电影镜头, 当使用单反镜头时, 需加跟焦齿环才可以使用;
- ② 马达可安装在19mm或15mm(使用转接环)的导管上。

3. 连接控制手柄和马达

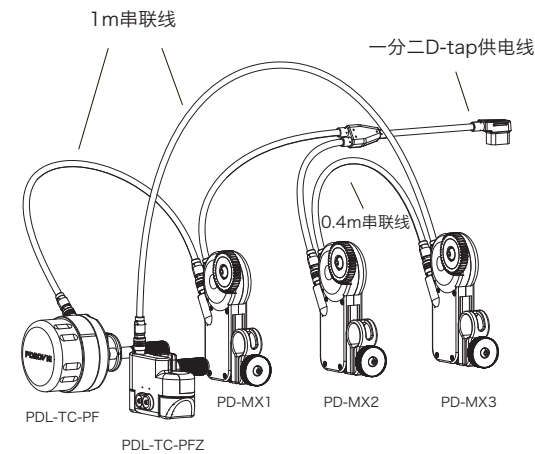
单通道连接方式:



双通道连接方式:



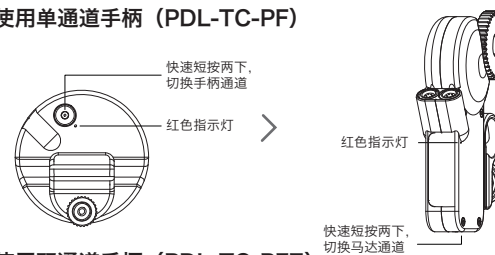
三通道连接方式:



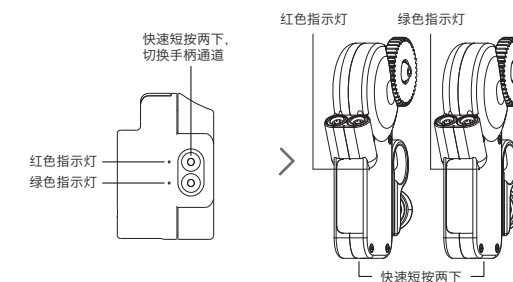
4. 启动电源, 设置通道

马达和手柄无需关机, 接通电源即自动开启, 断电即自动关机。

使用单通道手柄 (PDL-TC-PF)



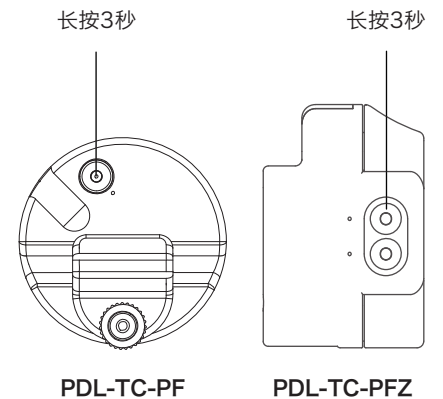
使用双通道手柄 (PDL-TC-PFZ)



注意事项: 控制手柄控制相同指示灯颜色的马达。

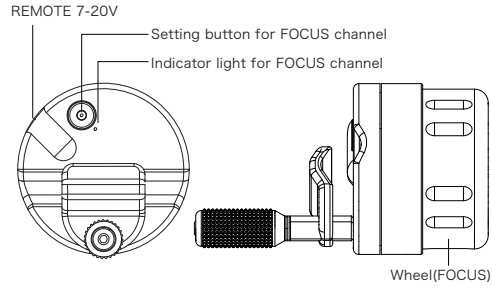
5. 检测行程并进行操控

长按控制手柄上的按键3秒检测镜头行程。自动检测镜头行程后, 即可通过控制手柄操控镜头。

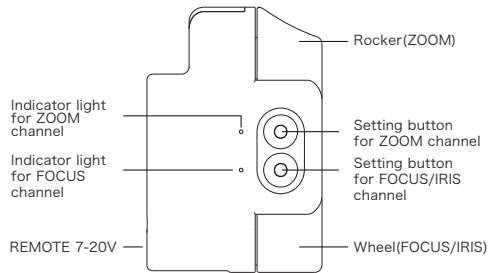


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Controller

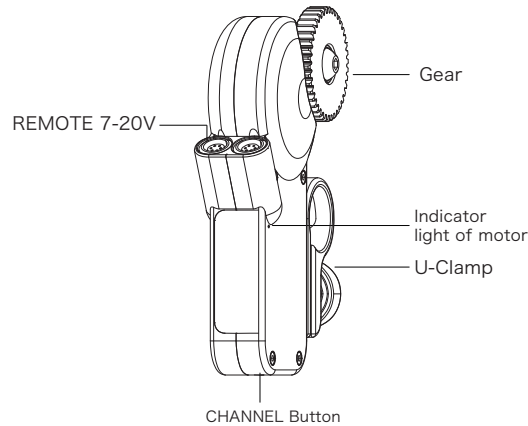


PDL-TC-PF Single-channel Controller



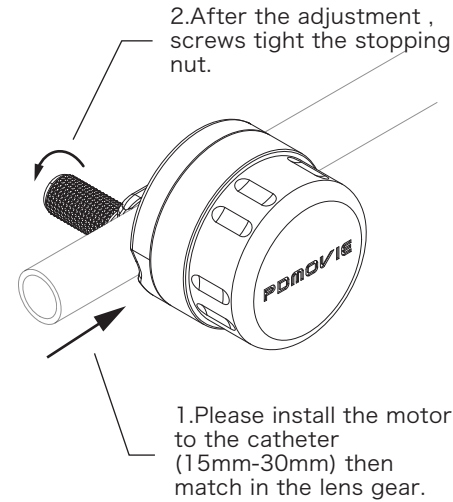
PDL-TC-PFZ Dual-channel Controller

Motor

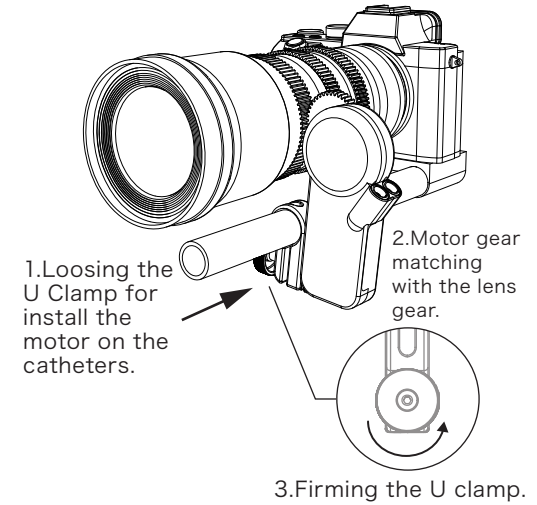


PD-MX (Slave Motor)

1. Installation Of Controller



2.Installation

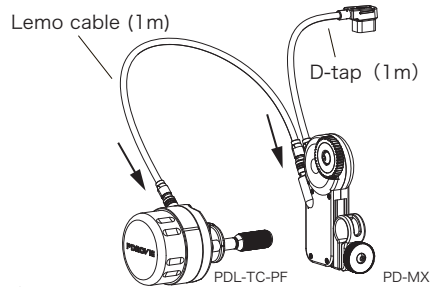


Attention

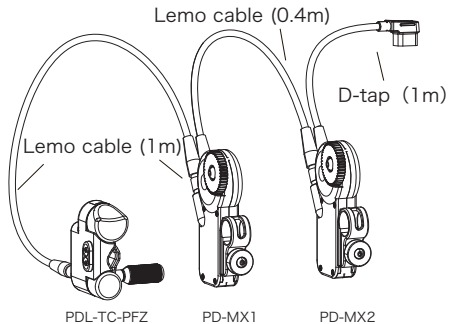
- ①The motor is used in lenses for a wide range of application ; But need the follow focus gear-ring when using the SLR camera.
- ②Motor can be install on the catheters with the diameter(15mm or 19mm) with the adapter ring.

3.Connection of handle and motor

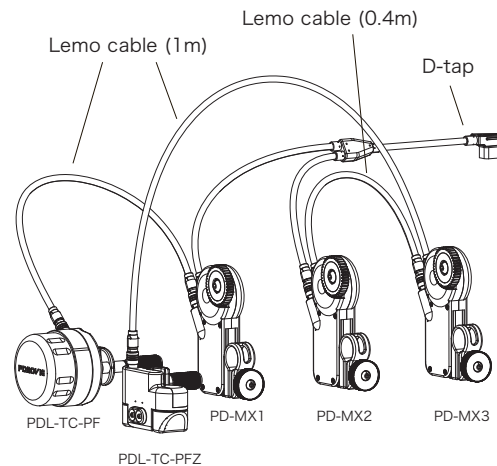
Connection Mode For Single-channel



Connection Mode For Dual-channel



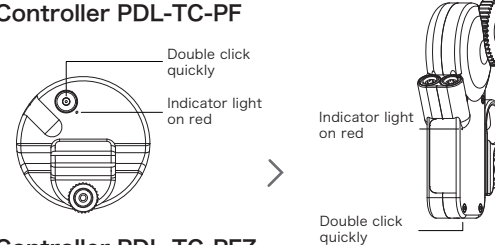
Connection Mode For Three-channel



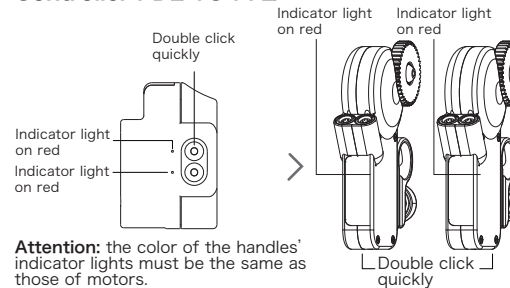
4.Start Up The Power And Set Up Channels

The motor do not need to turn on and off, cause it will turn on automatically when it have power supply and it will turn it off when power outage.

Controller PDL-TC-PF



Controller PDL-TC-PFZ



Attention: the color of the handles' indicator lights must be the same as those of motors.

5.Calibration

Long press the button on the controller for 3 seconds to calibrate the lens stroke.

