

1. Installation Of Controller

Attach the multifunctional clamp to the PD4-HT control handle, insert the battery, and then mount it onto a 15mm-30mm rod using the clamp.

2. Installation Of Motor

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

3. Connection Of Controller With Motor

①For using the controller (PD4-HT) : 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

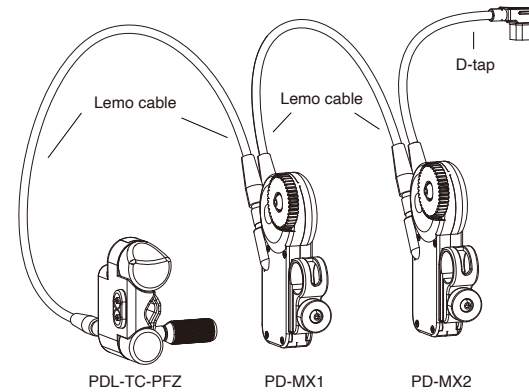
The motor do not need to turn on and off, cause it will turn on automatically when it have power supply and it will turn it off when power outage.Press and hold the controller for 3 seconds to power on/off.(To know more detail please check with the instruction No.7 & 8.)

7.Controller and motor channel switching table

Controller button	motor button	Channels	Indicator light color	Corresponding Channels
		R1	RED	FOCUS
		G2	GREEN	ZOOM
		B3	BLUE	IRIS
		Y4	Yellow	Backup channel
		C5	Cyan	Backup channel
		P6	Purple	Backup channel

8.instructions for using the controller buttons

Button & Socket	Functions	Instruction	
	Automatically Calibrate Stroke		Press and hold the button for 3 second
CHANNEL ZOOM FOCUS IRIS	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.
	Switch Channel		Double click the button (FOCUS/ZOOM/IRIS) for changing channels which mean switch the indicator light color.
	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)
CONTROL 5-18V in	A universal 6-pin socket for control signal transmission, power supply, and charging, supporting 5-18V.		



5. Calibrate Lens Stroke

① For the controller PD4-HT : Press and hold the Focus/Zoom/Iris button or motor button on the controller for 3 seconds, and the motor will automatically perform a lens travel detection.

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.

9.Instruction Of The Motors

①.Motor Button Instruction

Button Interface / Motor Button	Functions
CALIBRATION 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.Motor instruction table

BUTTON	FUNCTION
①	STOP CALIBRATION
②	CHANGE CONTROL CHANNEL
③	CHANGE ALTERNATE CHANNEL
④	RESET/RECOVERY CALIBRATION (POWER OUTAGE)
⑤	CHANGE MOTOR SPEED FAST/MEDIUM/SLOW
⑥	CALIBRAE THE LENS
⑦	CHANGE MOTOR DIRECTION
①Stop calibration : Only the receiver motor needs to switch the signal channel, and the slave motor does not.In case of emergency during the automatic calibration of the motor, you can short press the button once to terminate the automatic calibration. ④Clear calibrated lens stroke : When the motor has calibrated the lens stroke, Short press the button four times, will clear calibrated lens stroke ; Power outage recovery stroke : Power off when the motor change battery during use , Short press the button 4 times after the motor restarting , The last calibrated the lens stroke can be restored. (This function does not apply if the motor installation position is changed) ⑤The indicator light flashes quickly : Motor speed is fast ; The indicator light flashes slowly : The motor speed is medium ; The indicator light is always on : The motor speed is slow .	

6. Operation For Controlle

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

①When using the PD4-HT, it is recommended that both the Focus indicator light on the controller and the indicator light on the daisy-chained motor switch to red.

②When 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 PD4-HT and PDL-TC-PFZ please be sure that the indicator lights on the PD4-HT 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.)



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Notes

The connection between the controller and the motor is made through a control cable, supporting a control distance of up to 100 meters (100-meter cables require additional customization). After installation and connection are completed and powered on, automatic or manual calibration of the lens travel must be performed.

Manually calibrate the lens travel

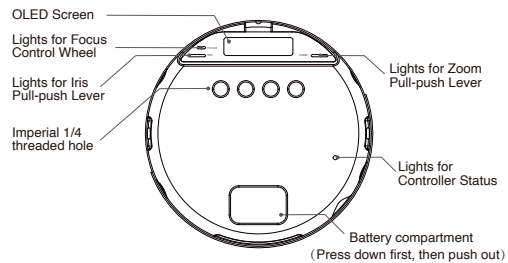
After inserting the power cord into the motor, ensure that the gears of the motor and the lens are fully engaged. Manually rotate the lens to the starting point and pause for 0.5 seconds, then rotate the lens to the end point and pause for 0.5 seconds. Finally, slightly rotate the lens back to complete the calibration. The motor will automatically recognize the lens travel. If there is an error in any of the processes, please power off and reset (for lenses with infinite focus, refer to the values of infinity and minimum focus distance for setting).

Refer to the comprehensive component diagrams and step-by-step tutorials in the Quick Start Guide for a quicker learning experience with LIVE PRO.

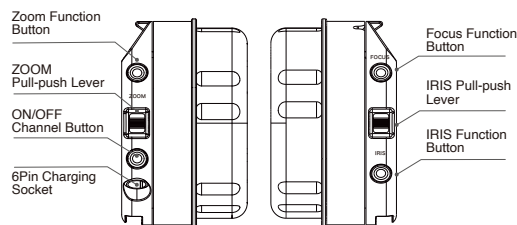
If you encounter any difficulties during use and require technical support, please feel free to contact us via phone or other social media platforms at any time.

LIVE PRO Quick Start Guide

Controller



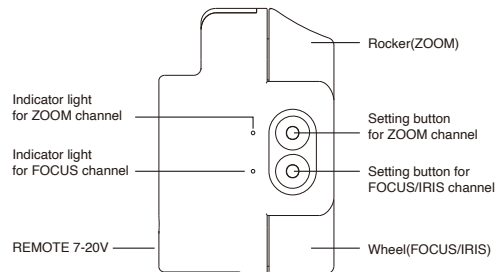
PD4-HT Back Sketch Map



PD4-HT Left Side Sketch Map

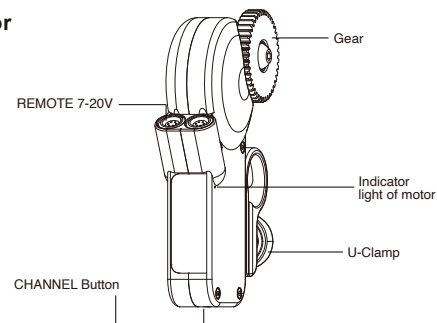
PD4-HT Right Side Sketch Map

PD4-HT Controller



PDL-TC-PFZ Dual-channel Controller

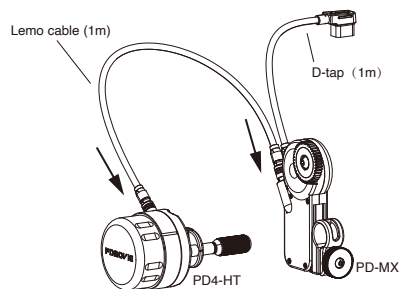
Motor



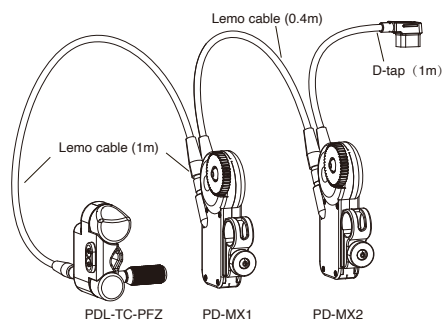
PD-MX (Slave Motor)

3.Connection of handle and motor

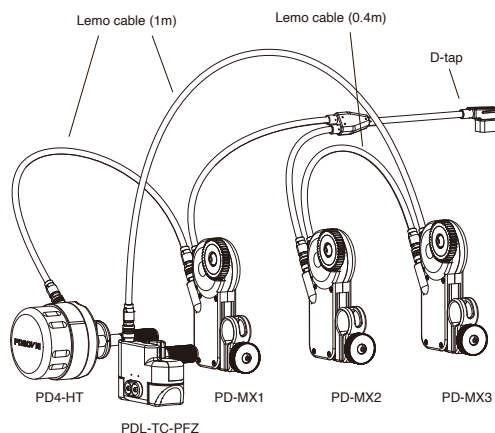
Connection Mode For Single-channel



Connection Mode For Dual-channel



Connection Mode For Three-channel

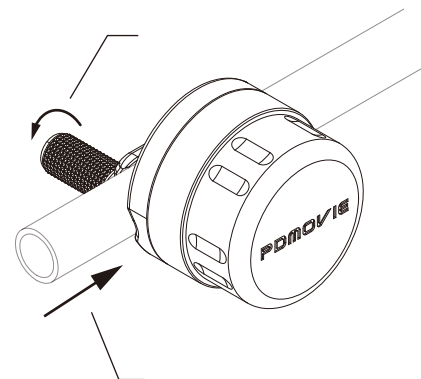


4.Start Up The Power And Set Up Channels

The motor and handle activate automatically upon powering up, without needing separate on/off switches. For PD4-HT, press the on/off button for 3 seconds to turn off the controller.

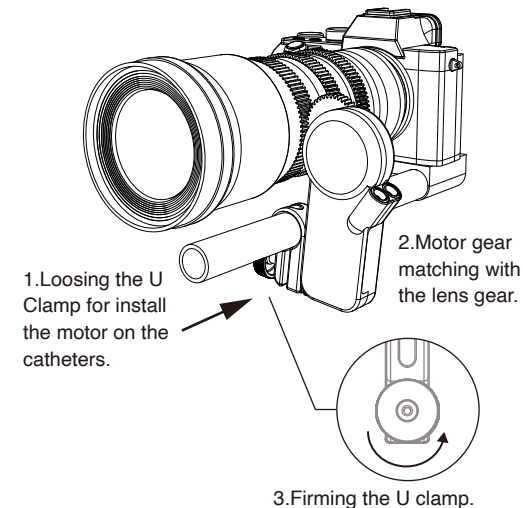
1. Installation Of Controller

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



2.If using PDL-TC-PFZ, mount the controller directly onto 15mm-30mm diameter rods.
·For PD4-HT, first attach the multifunction fixture to the controller, insert the battery properly, and then mount onto 15mm-30mm rods.

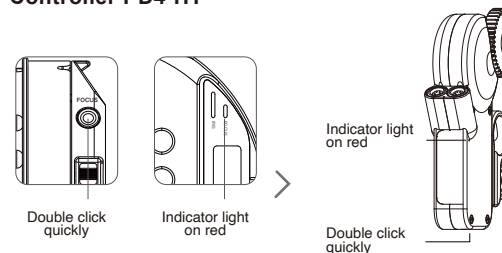
2.Installation



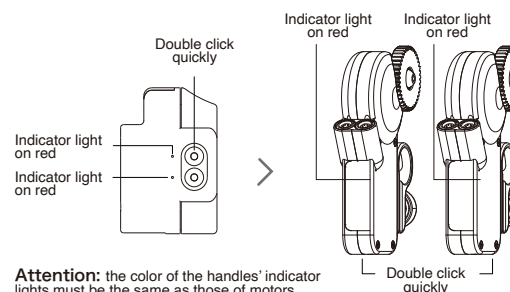
Attention

- 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.

Controller PD4-HT



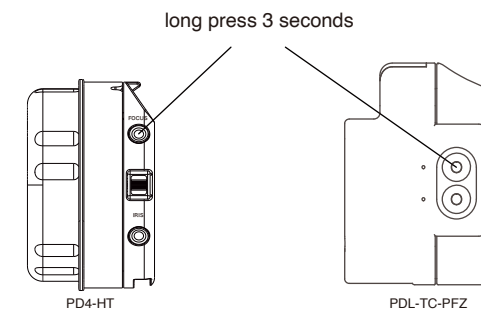
Controller PDL-TC-PFZ



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

5.Calibration

Press and hold the Focus/Zoom/Iris button on PD4-HT or any button on PDL-TC-PFZ for 3 seconds to auto-detect lens travel. After detection, operate the lens via the control handle. If no position is found, manual calibration can be performed.



Ignore the OLED screen data on PD4-HT; it displays information relevant only to wireless control mode, not the wired mode you're using. Visit our website or contact us for more details on wireless functionality.

