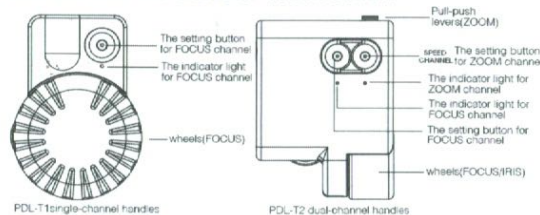


1. Installation of handle

You can install the handle PDL-T1 or PDL-T2 on the catheter with the diameter 15mm-30mm.



2. Installation of motor

You can install the motor on the catheter with the diameter 19mm or 15mm to be compatible with the gears of lens by applying adapter rings.

3. Connection of handle and motor

- By appliance of PDL-T1, you should connect the 6-pin plug of the control line with the handle and 6-pin socket(REMOTE 12~18) in the slave motor respectively first and then D-TAP plug with DC output socket of V-mount power supply.
- With the help of PDL-T2, you should link the two motors(PD3-M1 and PD3-M2) firstly, cascade the handle and series motor(PD3-M1) with another line, then make the 6-pin plug of D-Tap concatenate the 6-hole socket (REMOTE 12~18), and lastly assure D-TAP plug connect with DC output socket of V-mount power supply

7. Instruction of the button interface in the handle

The button interface	functions	instruction
	automatic detection of stroke	Press the button consistently for three seconds to detect the lens stroke
CHANNEL	manually setting the stroke (AB point)	Set: Press the button quickly to set A point, next run the turntable of controller or push-pull lever to set the stroke and last press the button to set B point. Revocation: Press the button quickly to revoke AB point.
	Switch control channel	short press the button twice to switch the control channel. (It also equals to switch the colour of indicator)
SPEED CHANNEL	with the rotation speed of motor	Press the button quickly for five times to adjust the rotation speed of motors while the push-pull lever is working (it only works for ZOOM channel when the indicator light is green.)
	Switching the rotation direction of the motor	Press the button quickly for 7 times to switch the rotation direction of the motor (equal to change the rotation direction of the lens)
REMOTE 12~18		common 6-pin sockets to supply power and control the signal transmission is able to support for 12 ~ 18V voltage supply. Both the control handle and the motor have this socket

4. Turn on the motor

- You should press the button ON/OFF on the bottom of the motor for about two seconds until the indicator light is on.
- If you start several series motor simultaneously, the power supply should be initiated one by one.
- If you start only one, make sure the indicator of the series motor turn red. For two, make sure that the indicator light of series motor PD3-M1 turn red and PD3-M2 green. (you can refer to the control channels switching figure and the explanation of the functions figure for detailed ones.)

5. detecting the lens stroke

For handle PDL-T1 and PDL-T2 having no switch to start up, when all the circuits are ready, V-mount electric source will supply the power automatically and start up the handle.

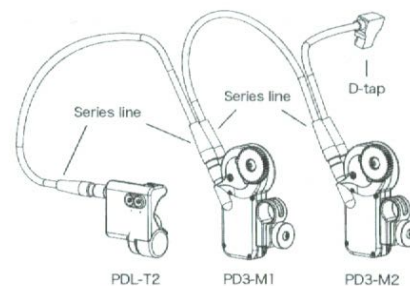
8. Instruction of the motors

①. Instruction of motors' button interface

The button interface	functions
ON/OFF CHANNEL SPEED	Start-up: press the button consistently for two seconds until the indicator light is on; shutdown: press the button consistently for two seconds until the indicator light is off.
REMOTE 12~18	the rotation speed of motors switching and the control channels switching (detailed instructions in the rotation speed of motor switching figure and the control channels switching figure)
	common 6-pin sockets to supply power and control the signal transmission is able to support for 12 ~ 18V voltage supply. Both the control handle and the motor have this socket

②. the rotation speed of motors switching

press the button SPEED on the motor quickly	the rotation speed of motors	The flashing frequency of the corresponding indicator lights
●●●●●	Fast (greater torsion)	flashing fast
	middle (medium torsion)	flashing slowly
	slow (tiny torsion)	flashing consistently



- You can use PDL-T1 to detect the lens stroke by pressing the CHANNEL button which is beside the wheel of handle for three seconds.
- You can use PDL-T2 to detect the lens stroke by pressing the CHANNEL button on the left of control handle panel or the SPEED CHANNEL button on the right of control handle panel for three seconds. During this time, the motor will rotate at the same time.

6. Operation of the handle

Whirling the wheel of the handle or moving the push-pull lever, you could control the motor to achieve the focusing and zooming control or adjustment of aperture.

- When you start the PDL-T1, it is advisable to make the indicator light on both handle and the series motor on the red FOCUS channel.
- When you start PDL-T2, it is advisable to make sure that the indicator light which is both on the left of handle panel and on the series motor PD3-M1 turns into red FOCUS channel, and that the indicator which is both on the right of handle and on the PD3-M2 turns into green ZOOM channel. (you can refer to the control channels switching figure and the explanation of the functions figure for detailed ones)
- When you start the PDL-T1 and PDL-T2 simultaneously, make sure that the indicator light of PDL-T1 is on the red FOCUS channel, the indicator light CHANNEL on the left of PDL-T2 panel on the blue IRIS channel and the indicator light SPEED/CHANNEL on the right on the green ZOOM channel.

9. Handles and motors channel switching figure

Handles and the SPEED button on the motor	handles/ 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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REMOTE LIVE2 quick start guide

