PDMOVIE

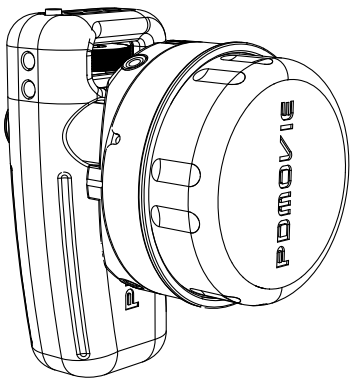
REMOTE AIR PRO 3

（PD4-S1/S2/S3）

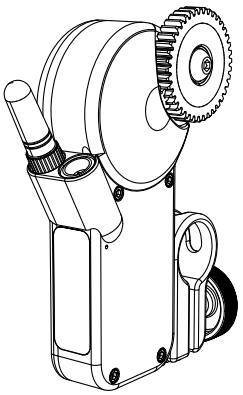
Product Manual

PDMOVIE Wireless Follow Focus System

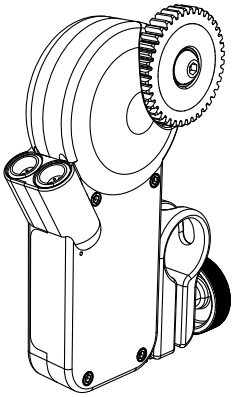
Welcome To Use REMOTE AIR PRO 3



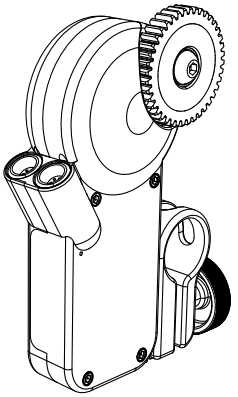
CONTROLLER
PD4-HT



MOTOR PRO
PD-RP



MOTOR AIR
PD-MX



MOTOR AIR
PD-MX

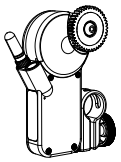
Notice For Use

1. **REMOTE AIR PRO 3 is for professional filmmaking three-channel wireless follow focus system. It can easily and quickly control the FOCUS, IRIS and ZOOM of CINE/SLR lenses remotely.**
2. Before using the product, please read the instruction manual carefully or watch the instructional video to understand the usage skills of the product. The company is not responsible for any direct or indirect adverse effects caused by operational errors.
3. Please do not dismantle, repair or refit the internal structure of the product without authorization. If the product is damaged or cannot use normally due to the above improper operation, our company has the right to refuse the maintain.
4. If there is a problem with the product during use， the product cannot be used or needs to be debugged one-to-one,Please contact us in the following ways.

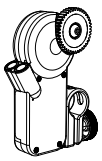
E-mail: pd@pdmovie.com
Website: www.pdmovie.com
Instagram: pdmovie_official
Facebook: PDmovie
Youtube: PDMOVIE
WhatsApp: +8613542105054

Configuration List

① Controller



② MOTOR PRO



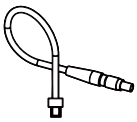
③ MOTOR AIR

④ LI-42B Battery

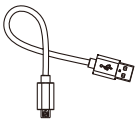
⑤ LI-42B Battery Charger

⑥ Serial motor cable 0.4m (6 pins)

⑦ D-Tap Power Cable 0.7m (6-pin)



⑧ USB charging cable 0.9m (6-pin)

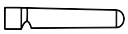


⑨ Micro USB charging cable

⑩ 15mm/19mm Adapter Ring

⑪ Mark disk

⑫ Short Antenna



⑬ long Antenna

⑭ Connector

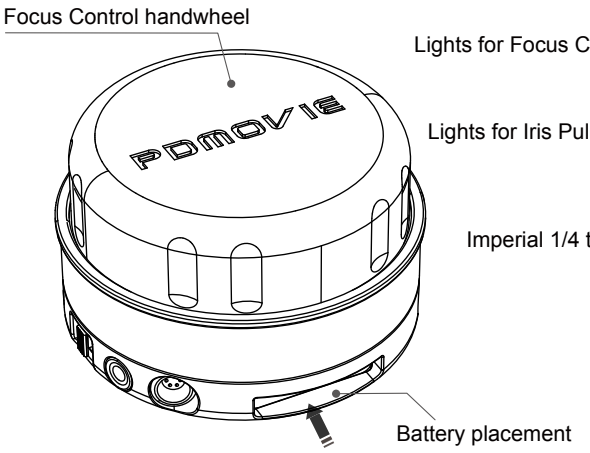
⑮ Handle

⑯ Allen Wrench And 1/4 Screw

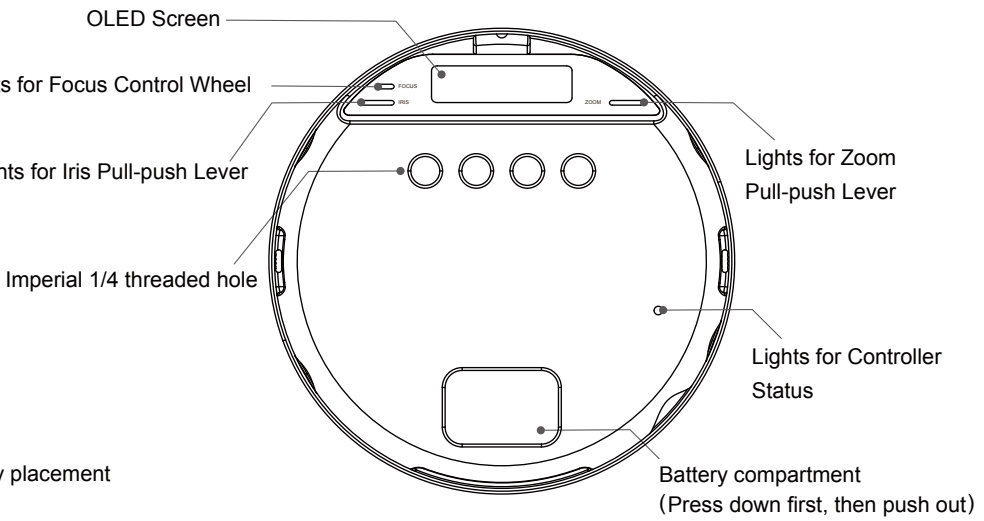
⑰ Lanyard

⑱ Hard Box

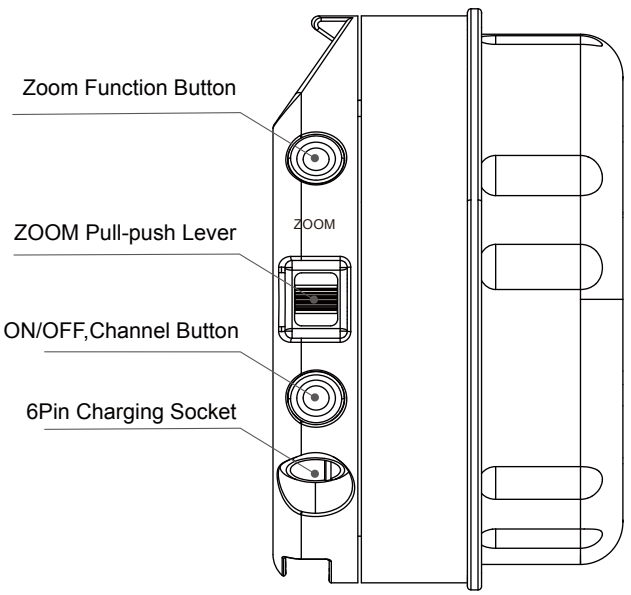
Number	Name	PD4-S1	PD4-S2	PD4-S3
1	Controller（PD4-HT）	1	1	1
2	MOTOR PRO（PD-RP）	1	1	1
3	MOTOR AIR (PD-MX)	—	1	2
4	LI-42B Battery(3.7V 600mAh 2.2Wh)	3	3	3
5	LI-42B Battery Charger	1	1	1
6	Serial Motor Cable 0.4m(6 pins)	—	1	2
7	D-Tap Power Cable 0.7m(6 pins)	1	1	1
8	USB Charging Cable 0.9m(6 pins)	1	1	1
9	Micro USB Charging Cable	1	1	1
10	15mm/19mm Adapter Ring	1	2	3
11	Mark disk	4	4	4
12	Short Antenna	1	1	1
13	Long Antenna	1	1	1
14	Connector	1	1	1
15	Handle	1	1	1
16	1/4 Screw	4	4	4
16	Allen Wrench	1	1	1
17	Lanyard	1	1	1
18	Hard Box	1	1	1



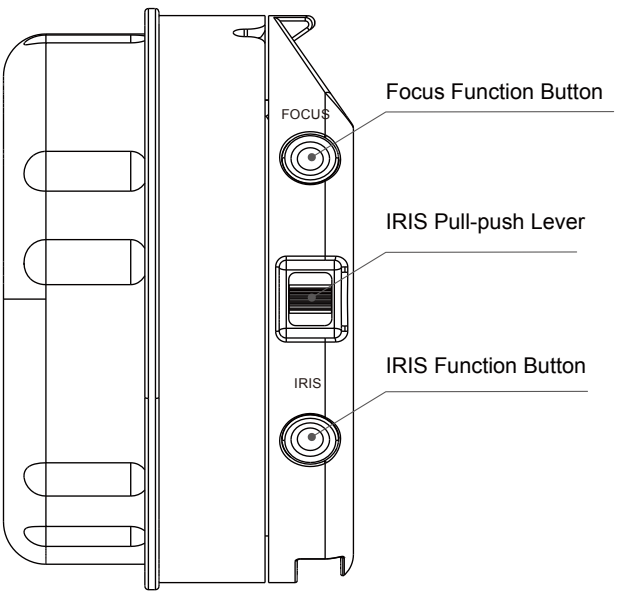
PD4-HT Front Sketch Map



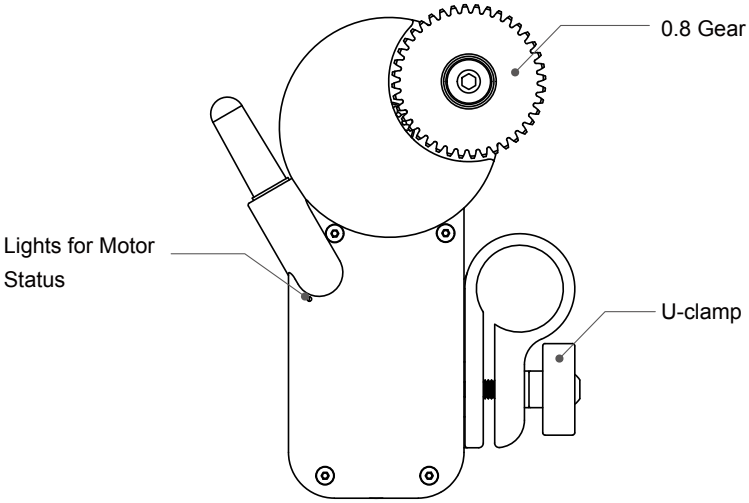
PD4-HT Back Sketch Map



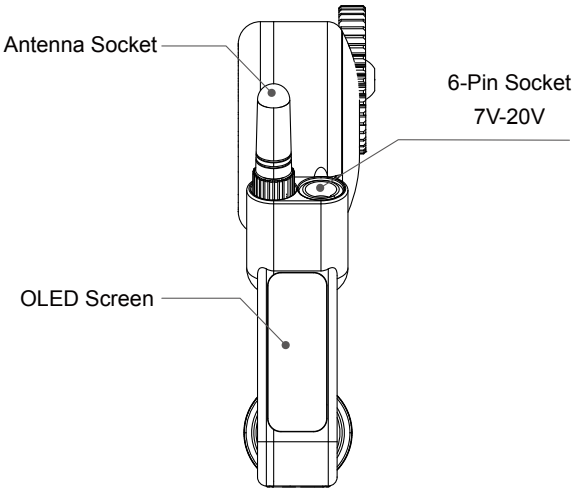
PD4-HT Left Side Sketch Map



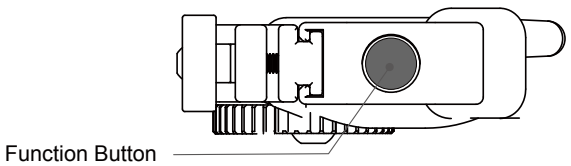
PD4-HT Right Side Sketch Map



Front view of the motor



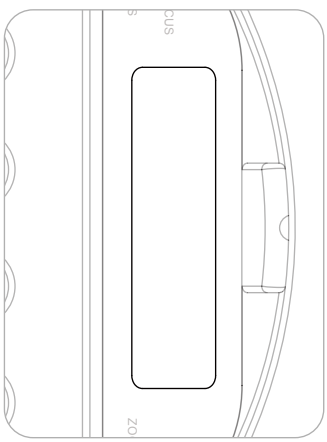
Side view of the motor



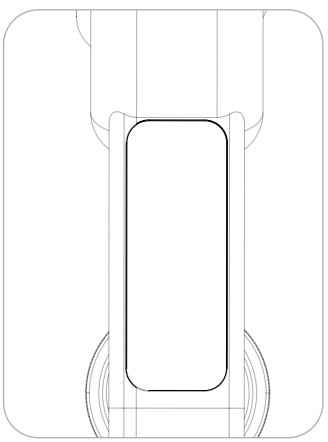
The bottom view of the motor

*** The motor diagram is mainly based on the PD-RP receiving motor. The difference between PD-MX and PD-RP is that PD-MX has no OLED screen and antenna socket, and other parts are exactly the same.**

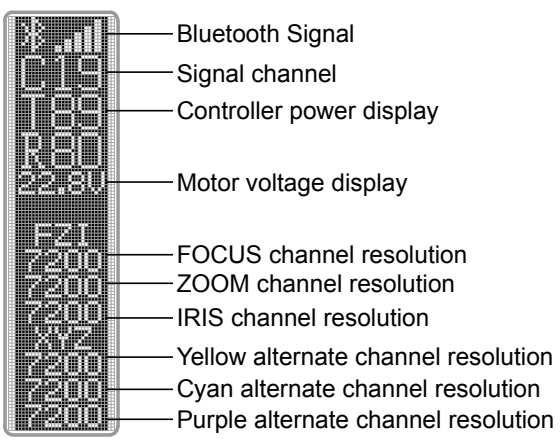
OLED Screen Data Display Product Sketch Map



Controller OLED screen



Receiver motor OLED Screen

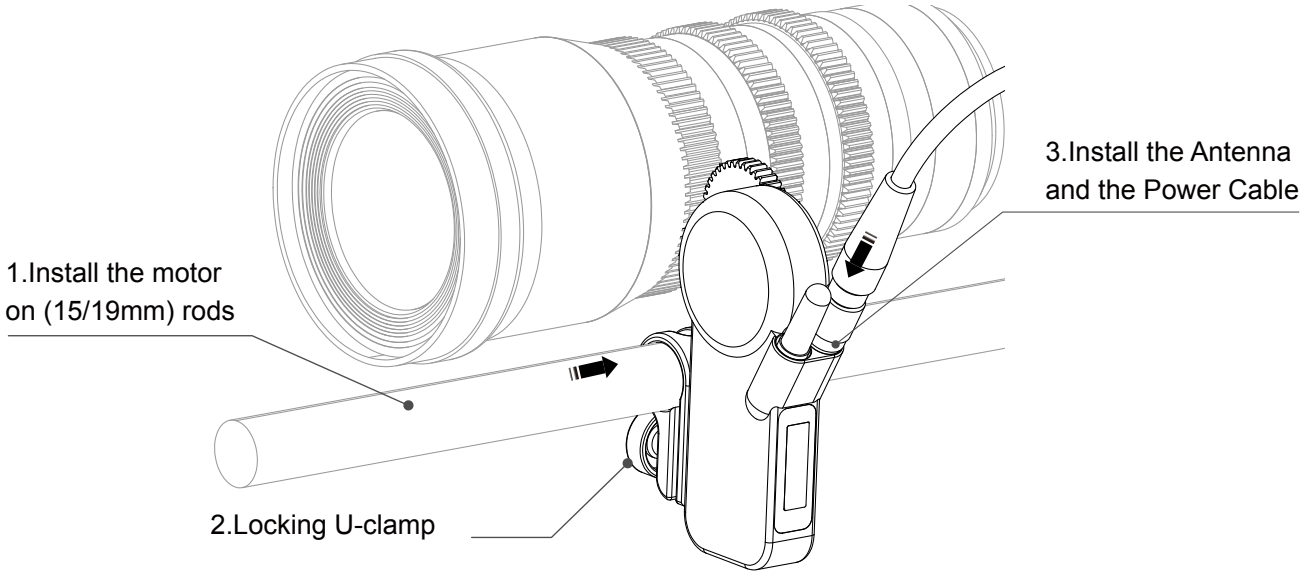


OLED Screen data display

*** The data display method on OLED of the controller is the same as the OLED of the receiver motor.**

1. Install the Motor

Install the motor on the 19mm or 15mm conduit (requires an adapter ring), pay attention to clamp the motor gear and lens gear, then lock the U clip, and finally install the antenna and power cable or serial cable on the receiver motor (PD-RP).



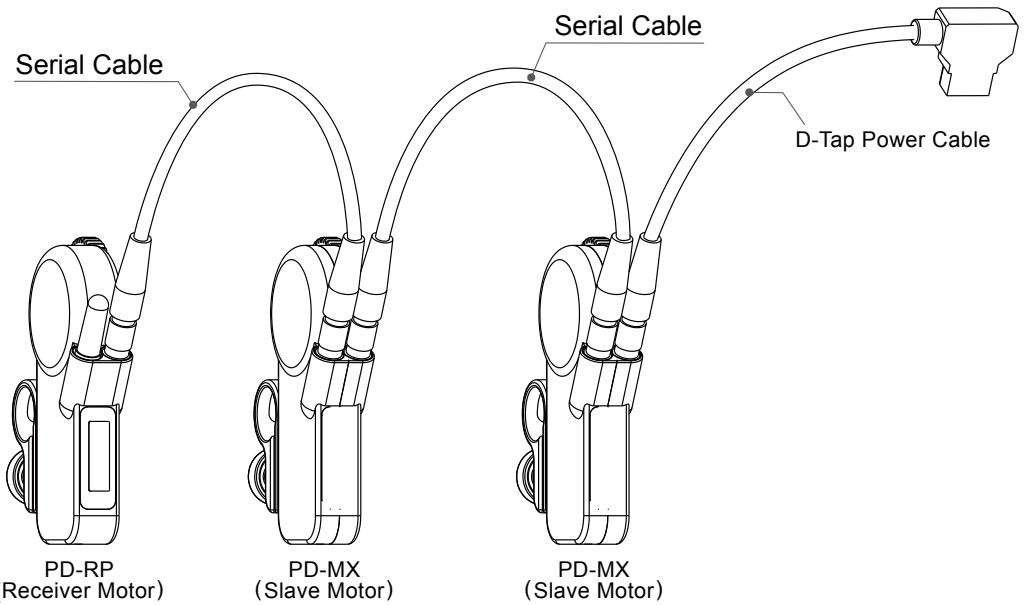
2. Wiring

PD4-S1（Single Channel）： Connect the power cable to the PD-RP (receiver motor) and the battery with the D/P-tap socket.

PD4-S2(Double Channel)： First connect PD-RP and PD-MX (slave motor) with serial cable, then connect PD-MX and battery (with D/P-tap socket) with power cable.

PD4-S3（Three Channel）： First use two serial cables to complete the connection between PD-RP and two PD-MX, and finally use power cable to connect PD-MX and battery (with D/P-tap socket)

***The REMOTE 7-20V sockets on the PD-RP and PD-MX have the same function are used for power and signal transmission.**

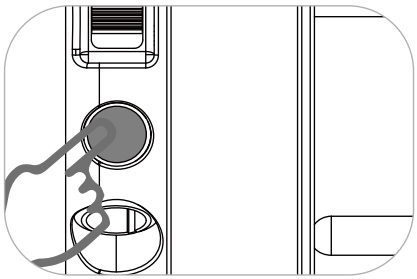


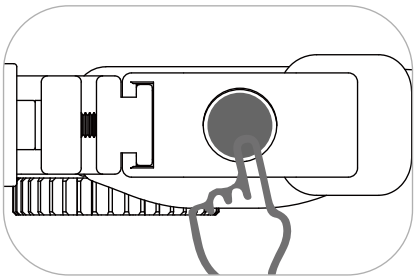
3. Start the controller and motor

Press and hold the controller's ON/OFF button for three seconds and release when the display lights up. The motor does not need to be switched on and off, it will automatically start when it is powered on, and it will automatically turn off when it is powered off.

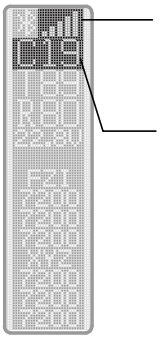
4.Set up the signal channel of the controller and the receiver motor

Before use, please check whether the signal channel on the controller display is consistent with the signal channel on the receiving motor display. When inconsistent, adjust the controller or receive the motor signal channel. Click the channel button to wake up the signal adjust function. After the channel number flashes, click the channel button to tune to the corresponding channel. The channel number flashing will automatically return to normal after 5 seconds of inactivity. (The frequency modulation method of the controller and the motor is the same) After the signal channel is the same, check whether there is a signal bar on the upper right of the display screen, if there is, it means the connection is successful.





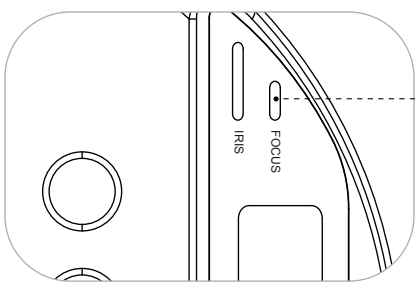
1. Click the channel button of the controller or the receiver motor to set the signal channel



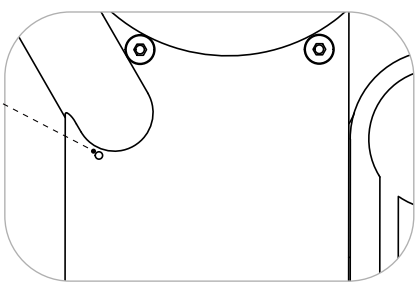
5. Set the control channel

1.The controller has three control parts, which control the motors of the channels respectively. When using Focus to control the handwheel, the color of the Focus indicator should be set to red, and the push-pull levers on the left and right sides can set the IRIS and ZOOM indicators to green or blue according to the control needs. Quickly double-click the button corresponding to the component to set the control channel. (Please refer to the schematic diagram and channel list for details)

2. Before use, check the color of the status indicator on the front of the motor to determine whether the motor is in the corresponding control channel (whether the indicator color is the same as the indicator color of the controller component), Quickly double-click the channel button of the motor to switch the control channel. There is no specific order in which channels are set up for motors, whether they are receiving motors or tandem motors.



If the controller Focus indicator is red when using single channel, the motor indicator should also be red.

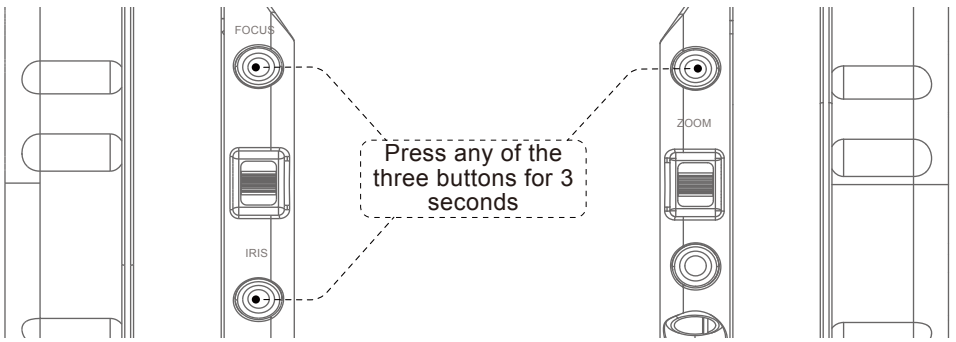


Controller button	Motor button	Channel	Indicator color	Control
●● Short press 2 times	●● Short press 2 times	R1	RED	FOCUS
		G2	GREEN	ZOOM
		B3	BLUE	IRIS
	●●● Short press 3 times	Y4	Yellow	Alternate channel
		C5	Cyan	Alternate channel
		P6	Purple	Alternate channel

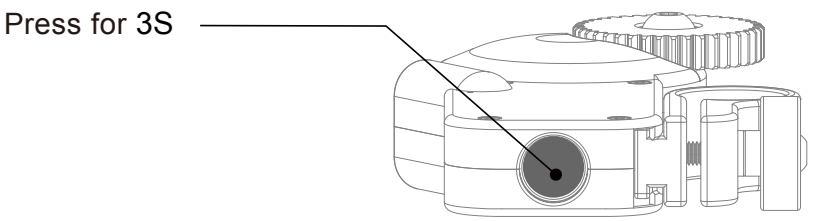
Instruction Manuals Set Up

6. Calibrate the lens

Method 1: Press and hold any of the FOCUS, ZOOM and IRIS buttons on the controller for three seconds, the motor will will automatically calibrate the lens travel. When using multiple channels, multiple motors will start auto-calibration at the same time.



Method 2: Press and hold the the motor button for three seconds until the motor turns and release, the motor will automatically calibrate the lens. When using multiple channels, it is necessary to operate motor by motor.

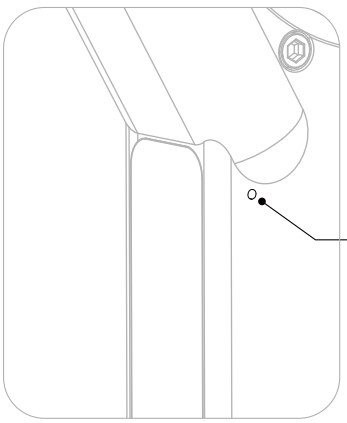


Method 3: Manually calibrate the lens travel: After the motor powers on, make sure that the motor gear and the lens gear are fully engaged, manually rotate the lens to the starting point and stop for 0.5 seconds, then rotate the lens to the end point and stop for 0.5 seconds, and finally, turn the lens slightly towards the starting point, the motor will complete the lens travel learning. (Lenses without hard stops are best for this feature) When using multiple channels, it is necessary to operate motor by motor.

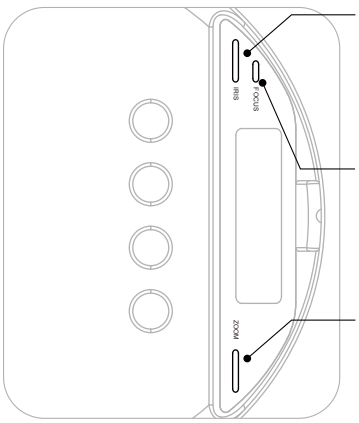
***When the controller and the motor are in the same signal channel and control channel, and the lens is automatically calibrated, it can be used.**

7. Adjust the speed

Before using the focus of the controller to control the handwheel and the push-pull Lever on both sides, please check whether the motors in the corresponding control channels can be used normally. Short press the ZOOM/IRIS button of the controller 5 times to cycle through the three-speed control speed of the ZOOM/IRIS push-pull rod (FOCUS cannot adjust the speed, the default is the fastest). Short press the button at the bottom of the motor 5 times to switch the motor speed cyclically. In addition, the rotational speed and direction of the motor can be adjusted by the controller or the motor.



Blinking Fast = Fast Speed
Blinking Slow = Medium Speed
Always On = Slow Speed
(Short press the button for 5 cycles to adjust)



Blinking Fast = Fast Speed
Blinking Slow = Medium Speed
Always On = Slow Speed
(Short press the button for 5 cycles to adjust)

The default is the fastest, the indicator light is always on
(Not adjustable)

Blinking Fast = Fast Speed
Blinking Slow = Medium Speed
Always On = Slow Speed
(Short press the button for 5 cycles to adjust)

*More features，See the table below

Controller button manual

BUTTON	NUMBER OF BUTTON PRESSES	FUNCTION
ON/OFF	① Long press 3 seconds	TURN ON/OFF
	② Short press 1 time	CHANGE CHANNEL
	③ Short press 2 times	START/STOP RECORDING
	④ Short press 3 times and long press 3 seconds	BLUETOOTH PAIRING
FOCUS ZOOM IRIS	⑤ Long press 3 seconds	CALIBRATION THE LENS
	⑥ Short press 1 time	A - B POINT LIMIT
	⑦ Short press 2 times	CHANGE CONTROL CHANNEL
	⑧ Short press 3 times	ZOOM ⟷ IRIS CONTROL CHANNEL EXCHANGE
	⑨ Short press 5 times	CHANGE THE ZOOM / IRIS SPEED
	⑩ Short press 7 times	CHANGE THE MOTOR DIRECTION

③ Start/stop recording: This function requires additional purchase of video cables of different models of cameras to use.

⑨ Change the speed: This function only supports adjusting the two push-pull rod parts of ZOOM and IRIS.Because the Focus handwheel defaults to the fastest speed, it cannot be changed

Motor button manual

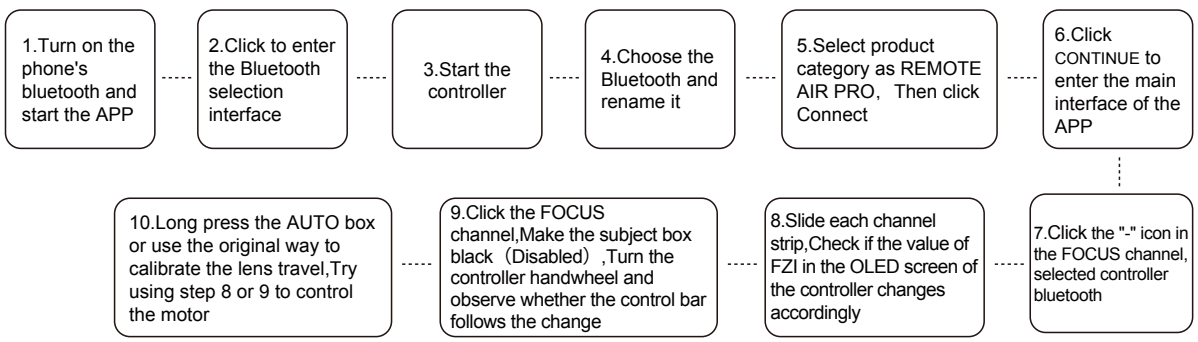
BUTTON	FUNCTION
① ● Short press 1 time	CHANGE SIGNAL CHANNEL/STOP CALIBRATION
② ●● Short press 2 times	CHANGE CONTROL CHANNEL
③ ●●● Short press 3 times	CHANGE ALTERNATE CHANNEL
④ ●●●● Short press 4 times	RESET/RECOVERY CALIBRATION（POWER OUTAGE）
⑤ ●●●●● Short press 5 times	CHANGE MOTOR SPEED FAST/MEDIUM/SLOW
⑥ ▬ Long press 3 seconds	CALIBRAE THE LENS
⑦ ●●●●●●● Short press 7 times	CHANGE MOTOR DIRECTION

①Change signal channel/stop 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.

REMOTE AIR APP

8. Download and connect the APP

The controller supports Bluetooth connection to IOS APP, Mark lens data through APP, Motor direct control or linkage control.Open the APP Store, search for PDMOVIE or REMOTE AIR in the Apple Store to download.Currently only IOS systems are supported.

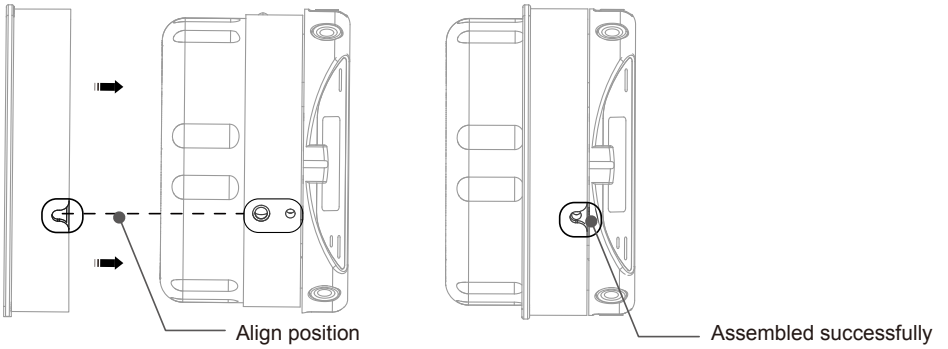


*APP Control Interface, FOCUS channel corresponds to the red indicator，IRIS channel corresponds to blue indicator ，ZOOM channel corresponds to green indicator，Please check if the indicator light of the controller component is the same color as the corresponding above. Step 3 After starting the controller，can first adjust the color of the controller's FOCUS/IRIS/ZOOM indicator to red/blue/green.
Log in to PDMOVIE official website to get REMOTE AIR APP usage tutorial. The HELP item of the SET interface in the APP also has a complete introduction to APP functions.

Additional Accessories

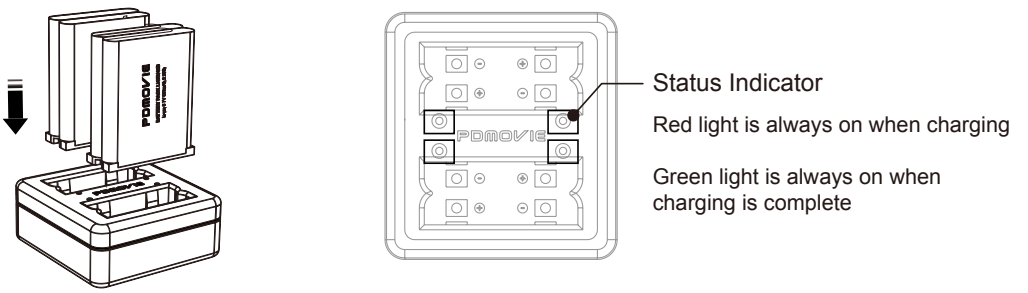
9. Marking Disk

After aligning the notch of the marking disk with the buckle on the handle, slide the marking ring into the conttroller firmly.



10. Charging Instructions

Use the charging unit provided in the package to charge the battery to ensure that the battery has sufficient power. Insert the battery into the corresponding battery slot to start charging the battery. (You can also use a USB 6Pin charging cable to charge the battery through the controller)



Supplementary Instructions

1. The motor comes standard with 0.8M gear,Special circumstances require gears (0.4m, 0.5m, 0.6m), you can contact the after-sales service or buy them at the PDMOVIE official website.

2. Any problems with the motor during calibration,Just click the motor button once to terminate the calibration.

3. When controlling the SLR lens, it is recommended to adjust the rotation speed of the motor to medium speed or slow speed for better effect.

4. The calibration of the SLR lens is recommended to use the manual method of calibrating the lens.

5. The normal working voltage of the motor is between 7 and 20V, Use D-tap power cable (applicable to common V-mount special batteries for film and television), if you need to use other power cable, please ensure that other power have 7 ～ 20V output power supply, the current reach more than 3A.

6. The normal working time of the controller PD4-HT is 12 hours, If the battery is low while working, It can be used with mobile power sources such as USB 5V output.It can be fully charged after 60 minutes of normal charging.（The controller 6-pin socket supports 5V-18V voltage input, please use it with confidence.）

7. When the motor working stroke suddenly does not match the original calibration travel,check whether the indicator light of the controller PD4-HT flashes alternately between the current channel color and white, Flashing alternately indicates that the current control channel has set the travel limit of point A-B, Short press the corresponding control part button to cancel the point A-B.

8. Powerful motor PD-RP, it is recommended to use a professional camera lithium battery above 150Wh for power supply, the best effect.If the battery output voltage is not enough, the motor speed can be adjusted to medium or low speed.

9. About battery maintenance: When not in use for a long time, it is recommended to check the battery power every other month to ensure that the battery has sufficient power; when the battery is in a low or no power state for a long time, the battery capacity will become smaller; Excessive discharge will cause damage to the battery. If the battery is swollen or damaged, please purchase a new battery for replacement and promptly discard the old battery.

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