

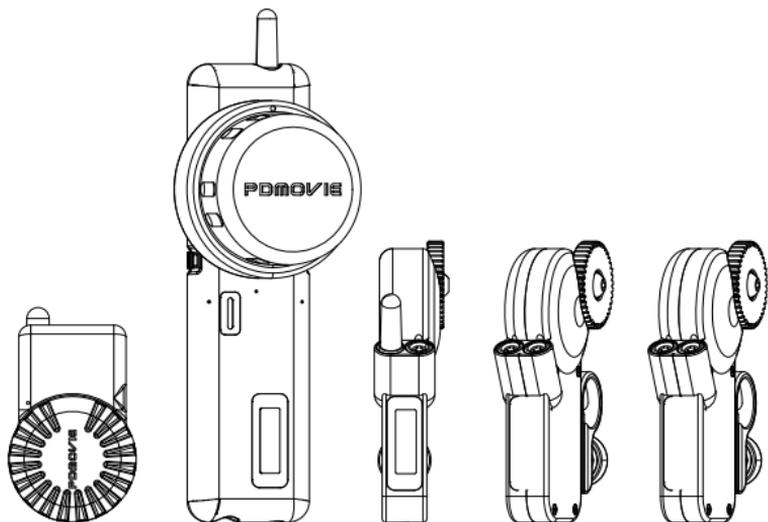
PDMOVIE

User Manual

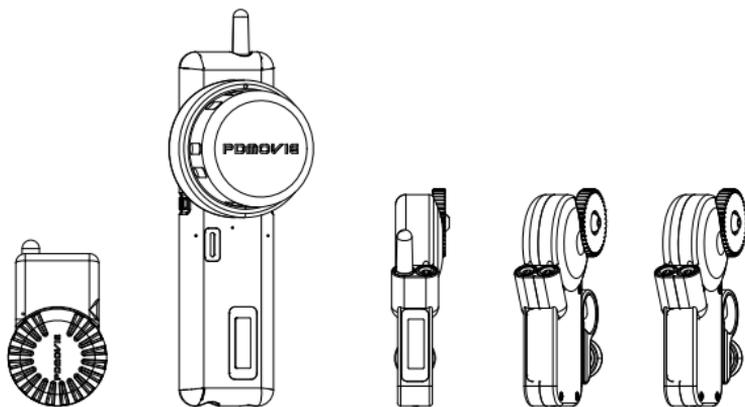
REMOTE AIR 4

PDMOVIE Wireless Follow Focus System

(PD2-M1/M2/M3)



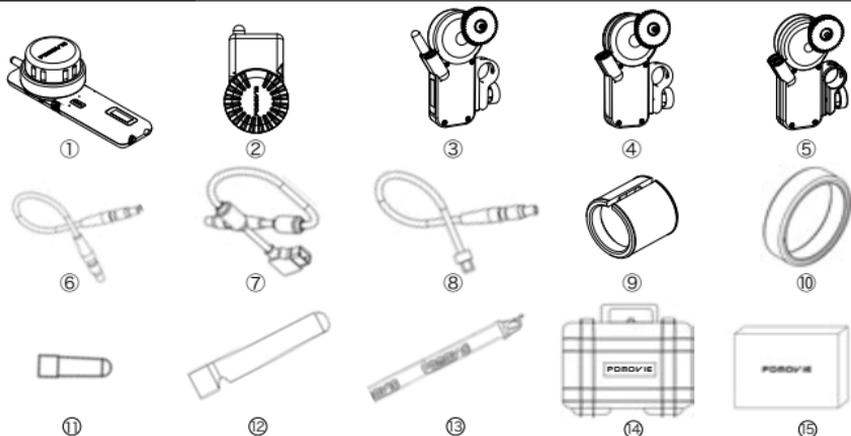
Welcome To REMOTE AIR 4



Introductory Notices

1. REMOTE AIR 4 is a professional three-channel wireless follow focus system. It is designed to allow efficient and comprehensive control of focus, zoom and iris on cinema and stills lenses.
2. Before using the product, please read the instructions carefully or watch the instructional online videos to learn how to use this product. Please note that our company will not be responsible for any direct or indirect adverse effects due to 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 be used normally due to the above improper operation, our company has the right to refuse maintenance under warranty.
4. If you need technical support or experience any problems with your product, please contact us.

Configuration list



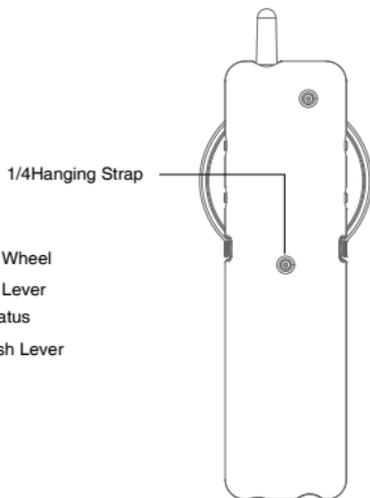
Serial number	Name	PD2-M1	PD2-M2	PD2-M3
1	Controller (PD2-HT)	1	1	1
2	Bluetooth controller (PDL-TC-AF)	1	1	1
3	Receiver motor (PD-RX)	1	1	1
4	Slave motor (PD-MX)	—	1	1
5	Big Torque Slave motor (PD-MP)	—	—	1
6	Slave Motor Cable 0.4m (6 pin)	—	1	2
7	D-Tap Power Cable 0.7m (6 pin)	1	1	1
8	USB Charging Cable 0.9m (4 pin)	1	1	1
9	15mm/19mm Adapter Ring	1	2	3
10	Glow in the Dark Marking Disk	2	2	2
11	Short Antenna	2	2	2
12	Long Antenna	2	2	2
13	Rope	1	1	1
14	Safety Box	1	1	1
15	Packing Box	1	1	1

The slave motor PD-MX/PD-MP can be paired with up to 3 channels.

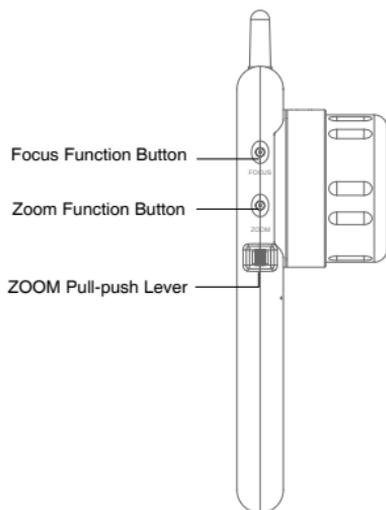
*For pages 4 and 5, replace any instances of 'Sketch Map' (see below) with 'Diagram'



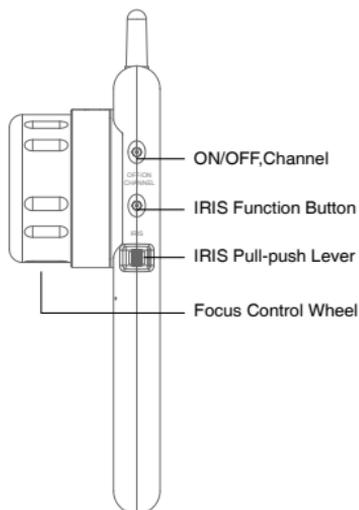
PD2-HT Front Diagram



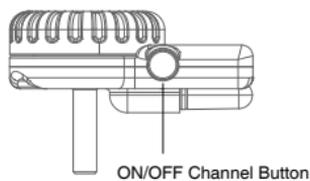
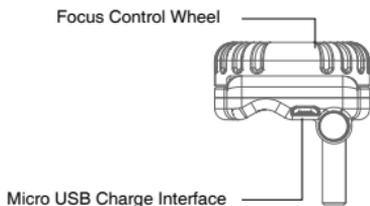
PD2-HD Back Diagram



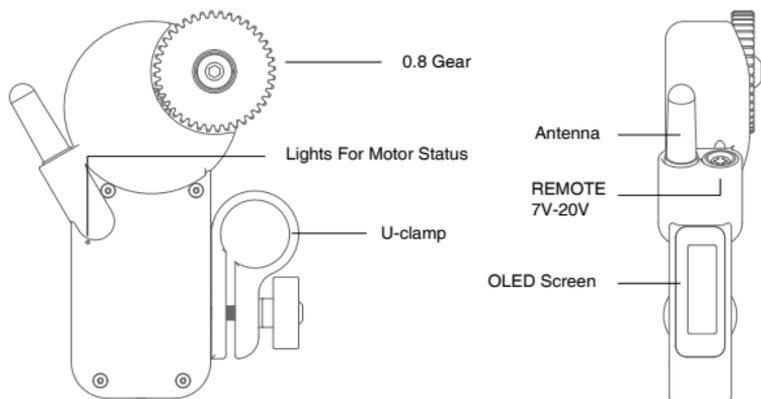
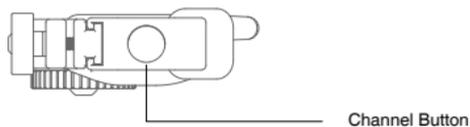
PD2-HT Left Side Sketch Map



PD2-HT Right Side Sketch Map

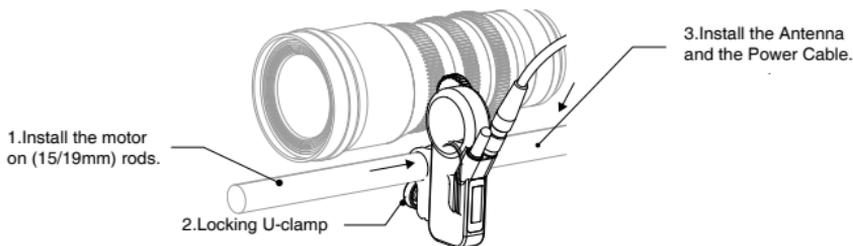


Motor



1. Install Motor

Install the motor on 19mm or 15mm (using the adapter) rods. At the same time, the motor gear stuck on the lens gear. Then install the antenna to the main motor PD-RX.

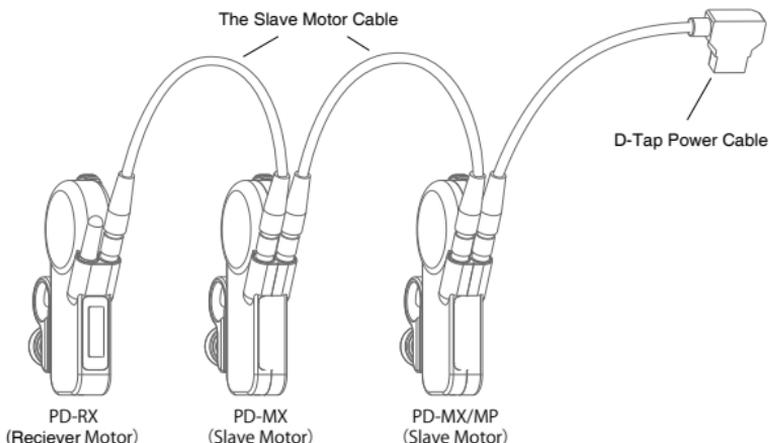


2. Connection

PD2-M1(Single Channel): Connect the PD-RX (Receiver Motor) to a power source with the D-Tap Power Cable.

PD3-M2(Double Channel): PD-RX (Receiver Motor) and PD-MX (Slave Motor) can be connected by slave motor cable, as long as the PD-MX (Slave Motor) is connected to the D-Tap Power Cable. Then, connect the D-Tap Power Cable to the V-mount Power Cable.

PD2-M3 (Three Channel): PD-RX (Receiver Motor) and PD-MX1 (Slave Motor 1) and PD-MX2 (Slave Motor 2) can be connected in a daisy chain with two slave cables. PD-MX2 (Slave Motor 2) connects to the D-Tap power cable, and the D-tap power cable connects to a V-mount power supply. The 7-20V interface on the motor is used for power supply and signal transmission, it can be connected to your rig in whatever position is convenient for you.



3. Powering on (Turn on the controller and the motor)

Press and hold the ON/OFF button on the right side of the controller for three seconds, until the screen illuminates, and then release the button. The motor does not need to be turned on or off, it will power on automatically when connected to a power supply. Conversely, it will automatically turn off when disconnected.

4. Set up the signal channel, connect the controller to motor.

Check the readouts on the controller and master motors' OLED monitors to see if they are on the same signal channel. If the channels don't match, you can adjust the controller or the signal channel of the motor until they do. Check for the signal icon on the top right corner of the screen to confirm a stable connection.

1. Check the consistency of the channel number



2. Check signal intensity



Adjusting channel on the Motor and Controller: Press the Channel button once to cycle through the available options until the channel number begins to blink. Then click the Channel button to change the channel. The channel number will stop blinking and automatically return to normal after 5 seconds of non-operation. (Use the same process to change the controller and the motor's channel)

5. Set up the controller channel

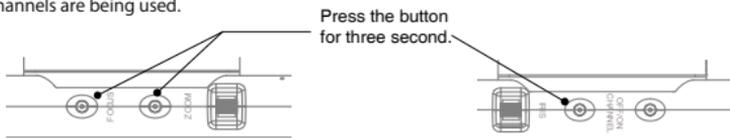
1. The controller has three inputs; hand-wheel and two rocker levers which can control three channels. The hand-wheel controls the FOCUS (Red light), the left side rocker lever controls the ZOOM (Green light) and the right side rocker lever controls the IRIS (Blue light). Both rocker levers on the sides can be set to green or blue according to your requirements. The control channel can be changed by double clicking the button on either sides. (For specific reference: see the schematic and channel list)

2. Check the color of the indicator light on the front of the motor, and confirm whether the motor is in the corresponding control channel. Quickly double click the channel button of the motor to switch the control channel. Motor setup channels are non-sequential.

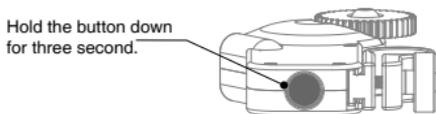
Button input frequency	Channel	Indicator light colour	Control
● ●	R1	Red	Focus
	G2	Green	Zoom
	B3	Blue	Iris
● ● ●	Y4	Yellow	Channel 4(standby)
	C5	Cyan	Channel 5(standby)
	P6	Purple	Channel 6(standby)

6. Calibrate Lens Cycle

(1) Press and Hold the FOCUS, ZOOM, or IRIS button on the controller for three seconds, until the motor rotates. The motor will automatically rotate the lens and calibrate internally. Multiple motors will be detected simultaneously, if multiple channels are being used.



(2) Press and hold the button on the bottom of the motor for three seconds, until the motor rotates. The motor will automatically rotate the lens and calibrate internally. When multiple channels are being used, the motors need to be operated one by one.



(3) Manually calibration:

1. Turn on the motor.
2. When the motor gear and the lens gear are completely interlocked, turn the lens to the desired starting point and hold for 0.5 seconds.
3. Then turn the lens to the end point and hold for 0.5 seconds.
4. Finally turn the lens back a little bit. The manual calibration is complete. (The lens of the focusing infinite position can reference the numerical setting of the infinity and the nearest focal length.)

7. Use

Turn the handwheel and rocker levers on the controller to check that the corresponding motors are working normally. The rotation speed and direction can be changed on either the motor or controller. For more detail, please consult the below table on the button functions of the controller and motor.

Controller PD2-HT Instruction Table Of Button

Button	Button input frequency	Function
ON/OFF	●	Switch signal channel
	■	Turn ON/OFF
FOCUS ZOOM IRIS	■	Calibration lens stroke
	●	Lens travel limit
	●●	Switching control channel
	●●●	Switched ZOOM and IRIS controlled parts
	●●●●●	Control speed of Pull-push Lever
	●●●●●●●	Switch Motor Rotate Direction

Motor Function Table

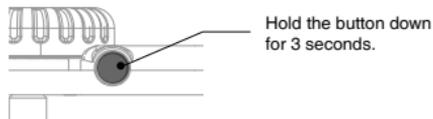
Button input Frequency	Function
●	Switch signal channel/Terminate calibration
● ●	R1 G2 B3 --Switch control channel
● ● ●	Y4 C5 P6--Switch the standby channel (Reserve Function)
● ● ● ●	Restart the lens cycle when powered off / Remove the lens setting.
● ● ● ● ●	FAST/MEDIUM/SLOW--Switch Motor Rotation Speed 2
▬	Calibrate Lens
● ● ● ● ● ● ● ●	Switch Motor Rotation Direction
● ● ● ▬	Turn on the Bluetooth
① Cancel the calibration cycle: There's no need to restart the motor, just press the button four times to reset the cycle manually; Restart the lens cycle when powered off: When the motor is suddenly powered off, just press the button four times to restart the calibration.	② Light Blinking Quickly: High response speed Light Blinking Slowly: Medium response speed Light Constant: Slow response speed

Instruction Manuals

Bluetooth Control

1. Turn on the Bluetooth controller and motor

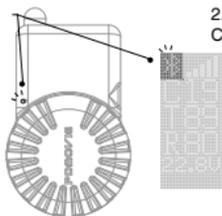
Press and hold the OFF/ON button on the Bluetooth controller for three seconds, until the screen illuminates. The PD-RX (Receive motor) will turn on automatically when connected to the power.



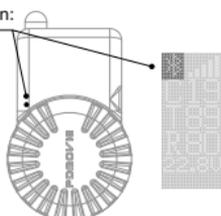
2. Bluetooth Connect

After the Bluetooth controller is turned on, the indicator lights will flash quickly for 60 seconds, which means the Bluetooth is being searched. When the Bluetooth connection is successful, the controller indicator light is bright, and the Bluetooth logo on the motor display is on.

1. Searching Bluetooth:
Blinking fast 60s.



2. Successful Connection:
Constant



3. Calibration

Press the OFF/ON button on the Bluetooth controller once, then press it again and hold, until the motor begins running. The motor will then automatically calibrate the lens. Other calibration methods can be explained in "Instruction Manuals Set Up 6 (2) or (3)".

4. Use

Turn the handwheel of the Bluetooth controller to check the motor is running normally. (Note: The Bluetooth controller can only control a single channel, so the receiver motor must be set to focus control: the focus indicator light is red)

Bluetooth Controller PDL-TC-AF Assigned Button Functions

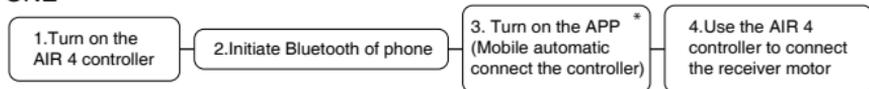
Button Input Frequency	Function
■	TURN ON/OFF
●	Lens travel limit
● ■	Calibrate Lens
● ● ● ■	Activate Bluetooth
● ● ● ● ● ●	Switch Motor Direction

Residual electricity	The color of the indicator light
100%-75%	WHITE
74%-50%	GREEN
49%-25%	YELLOW
24%-0%	RED

5. REMOTE AIR APP

The motor can be controlled by the IOS system APP. Search PDMOVIE or REMOTE AIR, then download the APP from Apple store.

ONE



TWO



* Before opening the App, make sure the App is not already running. If so, close and reopen a single instance of the App.

Tutorial guides to using the App can be found in videos on the PDMOVIE official website/ FACEBOOK/ YOUTUBE. Also available from App interface - "SET" - "HELP".

Supplementary Specifications

- 1.The 0.8M gear is the standard configuration for our motors. If you need 0.4M/0.5M/0.6M diameter gears, please contact our after service team, or purchase directly through PDMOVIE official AliExpress store.
- 2.If the motor has any problems calibrating, simply press the Channel button once to abort the calibration process.
- 3.The distance of Bluetooth control is 10 meters, and Bluetooth controller PDL-TC-AF is mainly recommended for single person shooting.
- 4.When using this system with a stills or SLR Lens, we would recommend adjusting the motor rotation speed to medium or slow.
5. We would additionally highly recommend manually calibrating the motors when using stills or SLR camera lenses.
- 6.The standard configuration of the power supply is designed to take power from the 'B' port power cable of a standard V-Mount battery. The normal operating voltage of the motor is between 7V-20V. After sales service team can support changing the cable and answering electrical queries.
- 7.The normal working time of the controller PD2-HT is 30 hours. If there is insufficient power while shooting, a mobile power supply with USB 5V output can be used for charging the unit while in use. The controller battery will normally be full after 60 minutes charging.
- 8.The normal working time of Bluetooth controller PDL-TC-AF is 8-10 hours. If there is insufficient power while shooting, a mobile power supply with USB 5V output can be used for charging the unit while in use. The normal charge time is 20-25 minutes.
- 9.If the motor's calibration deviates from the original calibration setting, check the controller PD2-HT or PDL-TC-AF' s blinking light. If the current channel color and white blinking which mean setting the A-B point. If you want to cancel the A-B point limit, press the corresponding button once.
- 10.Battery maintenance: We recommend checking the power consumption every month to ensure that the battery has enough power when dormant. When the equipment is in a state of low power or no charge for a long time, it can reduce the battery capacity. Overcharging or over discharging for a long time will cause capacity loss to the battery. It is recommended that the user keep the device power constantly at 50-74%.

Warranty and Upgrade.

REMOTE AIR 4 offers a free upgrade program and one year warranty for hardware. Any PDMOVIE dealer will also offer you the same service or you can directly call PDMOVIE.