PDMOVIE

REMOTE AIR PRO Product Manual

Contoller

Antenna Connector
AUTO Function
OFF/ON CHANNEL

Top Sketch Map

USB 5V OUT
5V IN
1/4Hanging Strap

Bottom Sketch Map

Pull-push levers (ZOOM)
OLED monitor
Wheel Control (FOCUS)
Indicator light for Control

Front Sketch Map

Motor

Gears
Antenna Connector
REMOTE 12~18V
OLED monitor
U clamp
OFF/ON CHANNEL
Indicator light for motor

PD3-R Front Sketch Map   PD3-R Back Sketch Map

REMOTE 12~18V
OFF/ON CHANNEL
Indicator light for motor

PD3-M Front Sketch Map   PD3-M Back Sketch Map

Important
Please read this document, master REMOTE AIR PRO usage,Before you first use your REMOTE AIR PRO.

Learn more
You can find more information, watch demos, and learn even more about REMOTE AIR PRO features at www.pdmovie.com/remoteairpro/.
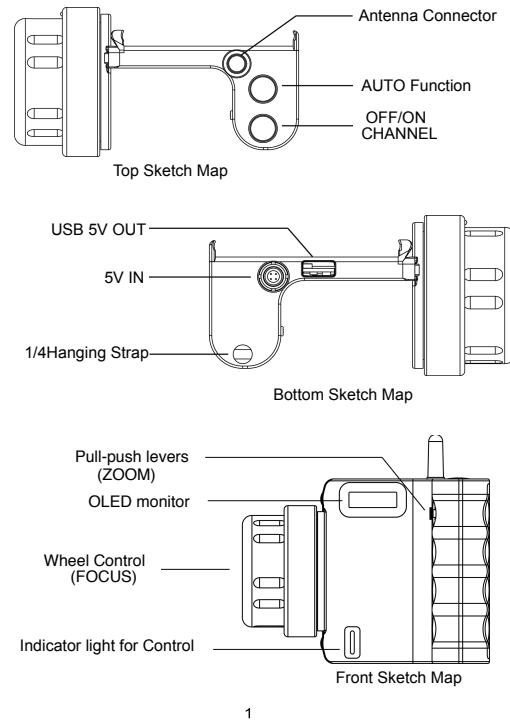
Support
REMOTE AIR PRO enjoy free upgrade program and one year of hardware warranty period, you can get these services from PDMOVIE dealer.

Contact
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Instruction manual

1、Motor Installation
The motor is mounted on 19 mm or 15 mm rods. For 15 mm rods use the included 19 to 15 mm rod adaptor.

2、Connecting Motors
When using PD3-S1 (Single Channel):
1).Connect the D-Tap power cable 6-pin aviation locking plug directly to the PD3-R REMOTE 12 ~ 18V input.
2).Then connect the D-Tap plug to a pro battery or similar power source with a D-Tap output.
When using the PD3-S2 (Dual Channel):
1).Connect the motor cable (6-pin) from the PD3-R REMOTE 12 ~ 18V connector to the PD3-M REMOTE12 ~ 18V connector.
2).Connect the D-Tap to 6-pin aviation locking plug to PD3-M REMOTE12 ~ 18V and connect the D-Tap plug to a pro battery or similar power source with a D-Tap output.
When using PD3-S3 (Triple Channel):
1).Connect one Motor Drive Line Cable to the PD3-R REMOTE12 ~ 18V connector
and the PD3-M1 REMOTE12 ~ 18V connector.
2).Connect second Motor Drive Line Cable to the PD3-M1 REMOTE12 ~ 18V connector and the PD3-M2 REMOTE12 ~ 18V connector.
3).Connect the D-Tap to 6-pin plug to the PD3-M2 REMOTE12 ~ 18V connector and Then connect the D-Tap plug to a pro battery or similar power source with a D-Tap output.

D-Tap

PD3-M2   PD3-M1   PD3-R
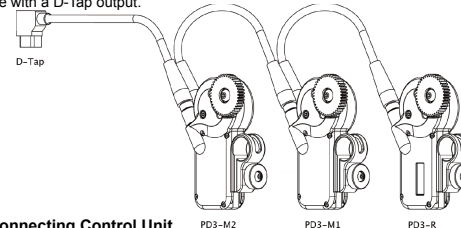
3、Connecting Control Unit
Depending on which device you are using iPhone6、iPhone7/iPhone6Plus / iPhone7Plus/iPod touch, select the correct clamp that fits your device. To attach or remove the device clamps loosen or tighten the thumb wheels on either side of the focus knob. Rotate to the left to tighten or to the right to loosen. Slide you device in from the top and then tighten the clamp. The clamp is lined with a soft rubber to prevent scratches to your device.

LOOSEN
TIGHTEN

4. Installing the Antennas
Three antennas are included in the package. Install one on the hand control unit. Install one on the PD3-R Receiver Motor. The third antenna is an extra.

5. Powering On
To power on the Hand Controller Unit, press the OFF / ON button on the bottom of the unit for two seconds until the screen lights up. To power on the motor, press the ON / OFF button on the bottom for two seconds until the indicator lights up.

6. Adjusting channel
When you power on the Hand Control Unit the OLED display on the back shows status information. The fist line displays the current channel. The channel on the Hand Control Unit MUST match the channel on the PD3-R Receiver Motor. If they do not you can short press the OFF / ON Channel on either unit multiple times until the channel numbermatches.Hand Control Unit OLED Display Information:

2.4G	2.4GHZ wireless network
CHANNEL	Shows current Channel in use, short press on OFF/ON Channel button to change channel
Signal level	It displays the signal strength of the Hand Control Unit and the receiver when interworking
TX	The controller battery charge remaining percentage
RX	Receiver voltage
5V or 0V	OLED screen display USB5V in the upper right corner of the controller output; 5V means USB5V output is ON; 0V means USB5V output is OFF

7. Remote Air App
Download App from the Apple App Store (Search for Remote Air). Make sure you have the latest version of iOS and Bluetooth enabled on your device. Make sure that your motors and the hand control unit are powered on and on the correct channel.Run the app. If you have your motors and Hand Control Unit on it will enter into the main menu.To confirm that your device is communicating with Remote Air Pro the indicator lights at the bottom of the Hand Control Unit will turn from red to green.

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8. Calibrating Lens
Make sure that your motors are properly and securely attached to your camera rig and in contact with your lens. Long press (3 seconds) the "AUTO" button on the top left side of the hand control unit. You can also press the "AUTO" button that is located on the bottom right side of the main menu on the Remote Air App. When using PD3-S2 or PD3-S3 the multiple motors will simultaneously self-test.

9. App Control Interface
The main control interface of the app contains three columns that represent the three channels. (ZOOM, IRIS, FOCUS) In order to enable control of these channels you can touch on the words ZOOM, IRIS, or FOCUS. When they appear gray it indicates that the channel is turned on and active in the app. When the channels are active you can control the motors by simply sliding your fingers in the respective column. When they appear black, then the channel is OFF and cannot be controlled via the app. (To learn about the functions of APP control interface, go to the bottom right corner APP SET, click HELP to view.)

10. Types of Control Methods
Focus Wheel Control or Zoom Pull-push levers: In order to use the focus wheel you must either not be using the app and be in single channel mode OR if synced with the app you must have the focus channel turned off in the app.App control interface:
When the ZOOM, IRIS, FOCUS channels are highlighted grey in the app interface, it means you can use the touch screen to control the motor that corresponds to the different channels.

Fast and Short Press Motor SPEED Button	Motor Channeln	Indicator Light Color	Channel in App
••	R1	RED	FOCUS
	G2	GREEN	ZOOM
	B3	BLUE	IRIS
•••	Y4	YELLOW	CHANNEL4
	C5	CYAN	CHANNEL5
	P6	PURPLE	CHANNEL6

Motor Speed Mode Switching

Fast short press motor SPEED key	Motor Speed	LED Blinking Frequency
•••••	Fast (High torque)	Fast Flashing
	Medium (moderate torque)	Slow Flashing
	Slow (less torque)	Steady

Motor Button Functions

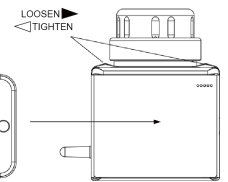| Button	Function Description	
OFF/ON CHANNEL SPEED	Power ON: Press for two seconds until the indicator light turns on Power OFF: Press for two seconds until the indicator light turns off	
	Short press button to switch channels	
	Speed mode and channel switching (see table below forreference)	
ANTENNA	Antenna connector	
REMOTE 12~18	Signal and power supply common interface, supports power supplies with 12 ~ 18V voltage range	

Hand Control Unit Controller Buttons Description

Button	Function	Instructions	
OFF/ON CHANNEL	Trun OFF/ON	Press for two seconds to turn ON / OFF controller	
	Changing Channel	Short press once	
AUTO	Automatic Calibrating	Press 3 seconds till the lens is rotating then let go	
	Motor forward and reverse switching	Continuous press 5 times	
	Manually set the (AB point)	SET	Push one quickly to set A point, turn the wheel to a good place and push once again quickly to set B point.
		Cancel	Push once quickly to cancel the settled AB point.
5V	5V charging input		
ANTENNA	Antenna connector		

Hand Control Unit Status Indicator Lights

Indicator	RED	GREEN	PURPLE	CYAN
Status	Unit is powered on	Unit is powered on and synched with your device via Bluetooth	Unit is charging (Use aviation locking plug to USB cable)	Unit is synced via Bluetooth and being charged at the same time

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Additional information

1) When the iPhone / iPod touch is running low, you can use the included Lightning to USB cable to connect the device to the Hand Control Unit's USB 5V charging output interface. 5V will show on the top right corner of the OLED display on the hand control unit when it's active. When the Hand Control Units internal battery becomes low it will shut the 5V output off to save battery.
When this happens the top right hand side of the OLED display will show 0V. The Hand Control Unit has a built-in 6000 mAH battery. This about twice the capacity of the iPhone 6 Plus, three times the capacity og the iPhone 6 and about five times the capacity of the iPod Touch. This data is only for reference only.

2) REMOTE AIR PRO is equipped with three different size lens pitch gears (0.4M, 0.5M, 0.6M), Choose the right size that fits your lens gear pitch. Use the included 3mm hex key to remove and re-attach the gears.

3) Emergency stop function: If you run into a situation where the motors are behaving erratically. Short press the ON / OFF button on the bottom of the motor and it will immediately stop (note: emergency stop on PD3-R and all the connected motors will stop as well.).

4) When you launch the app it will automatically search and sync with the Hand Control Unit. If you turn off the Hand Control Unit during use you will also have to re-launch the app.

5) Power Supply and Charging
- When the USB5V output is not in use the battery life is up to 60 hours.
- The Hand Control Unit's OLED screen displays the percentage of the remaining battery life.
- When the Hand Control Unit is running low, you can use a power bank to charge via 5V IN.
- When the unit is not in use for extended periods of time it is recommended that you check the battery at regular intervals. Check to ensure that the battery has enough power. Keeping the battery low or completely drained for extended periods of time can decrease the life span of the batteries.
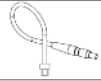
6) Equipment Maintenance: Whenever possible strive to store the Remote Air Pro in a relatively dry environment. When electronic components are exposed to humidity greater than 60% it becomes easier for them to develop moisture or mold and it can cause damage. If the unit will not be in use for an extended period of time make sure you store it in the waterproof case they shipped in and with the packet of desiccant that was included. This will ensure a long and trouble free life.

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REMOTE AIR PRO-What's Included

Parts drawing	Item	PD3-S1	PD3-S2	PD3-S3
	Integrated hand control unit	1	1	1
	Receiver / Master motor（PD3-R）	1	1	1
	Slave Motor（PD3-M）	—	1	2
	Motor Drive Line Cable（6pin）	—	1	2
	D-Tap Power Cable (6 pin)	1	1	1
	USB Charging Cable（4pin）	1	1	1
	Lightning to USB connecting Cable	1	1	1
	USB Charger	1	1	1
	iPhone 6 / 7 Clamp iPhone 6 Plus / iPhone 7 Plus Clamp iPod Touch Clamp	3	3	3
	15mm / 19mm Adapter Ring	1	2	3
	Glow in the Dark Marking Disk	2	2	2
	Antenna	2	2	2
	Long Antenna	2	2	2
	Lanyard	1	1	1
	Explosion proof box	1	1	1

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FCC STATEMENT:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and

(2) This device must accept any interference received, including interference that may cause undesired operation.

Warning: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

RF warning statement:

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.