

Aputure®

V-Control UFC-1S

USB Focus Controller Evolution



User Manual



Vivo Movie Solution

Aputure®

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Safety Notice

To prevent damage to your product or injury to yourself or to others, read the following safety precautions in their entirety before using this equipment. Keep these safety instructions where all those who use this equipment will read them.

Do not disassemble or modify

Failure to observe this precaution could result in electric shock or product malfunction. Should the product break open as the result of a fall or other accident, remove the batteries.

Keep dry

- Do not handle with wet hands or immerse in or expose to water or rain. Failure to observe this precaution could result in fire or electric shock.
- Do not use in the presence of flammable gas. Failure to observe this precaution could result in explosion or fire.

Keep out of reach of children

This device contains small parts which may pose a choking hazard. Consult a physician immediately if a child swallows any part of this device.

Do not expose to high temperatures

Do not leave the device in a closed vehicle under the sun or in other areas subject to extremely high temperatures. Failure to observe this precaution could result in fire or in damage to the casing or internal parts.

Observe precaution when handling batteries

- Use only batteries listed in this manual. Do not mix old and new batteries or batteries of different types.
- Do not short or disassemble.
- Do not attempt to insert batteries upside down or backwards.
- Batteries are prone to leakage when fully discharged. To avoid damage to the product, be sure to remove the batteries when leaving the product unattended for prolonged periods or when no charge remains.
- Should liquid from the batteries come into contact with skin or clothing, rinse immediately with fresh water.

Foreword

Thanks for purchasing Aputure® V-Control USB Focus Controller Evolution UFC-1S. It inherits the advantages of previous version while making some exciting improvements including a revolutionary center wheel with appropriate dampening effect to ensure precise and smooth focus control, firmware updates via USB to expand compatibility of Canon EOS cameras, and great development in saving or deleting focus points for video. Take V-Control UFC-1S to enjoy splendid video and photography experience.



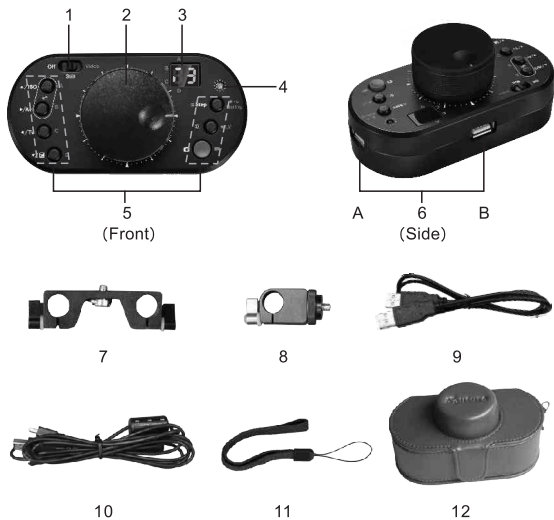
1. Product Introduction

V-Control UFC-1S is a USB focus controller to control certain Canon DSLR cameras. It can shoot in Still or Video mode with total exposure control including ISO, aperture, shutter speed and exposure compensation and freedom to select focus point in Still mode; in Video mode. it can save/delete/switch 4 focus points smooth and precise. The controller design is novel and compact, it will be your best partner.

Main Features

1. Smooth and precise focus control
2. Total photo (still) control
3. Total video shooting control
4. Preset and display focus points in Video mode
5. Multiple focus options in Still mode
6. LED display for adjustment settings
7. Two USB ports for ergonomic flexibility
8. Various holder mountable
9. Firmware updates via USB
10. One key switch still/video mode

2. Components



Controller

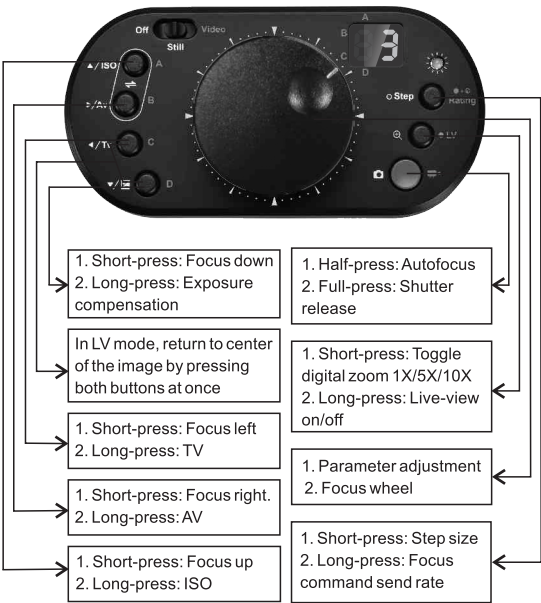
1. Mode Switch Button (Off/Still/Video)
2. Center Wheel
3. LED display (Left: Focus point preservation indicator; Right: Focus speed)
4. Indicator Bulb
5. Versatile Buttons
6. USB ports (Firmware upgrades via A port)

Accessories

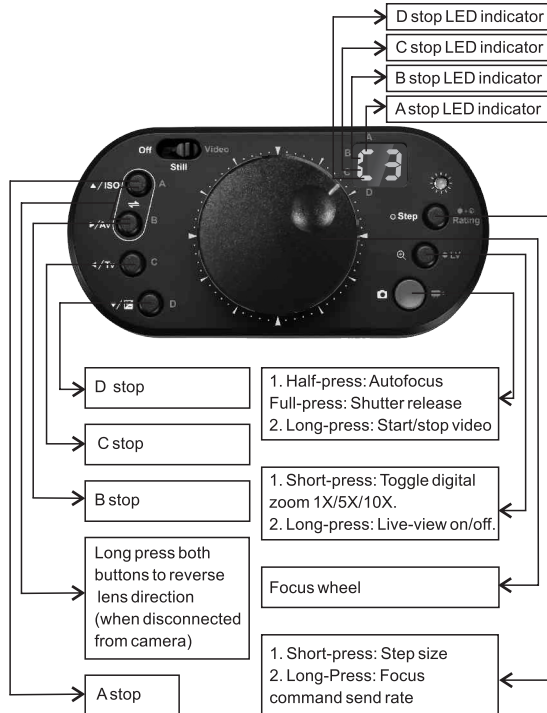
7. Dual Pipe Rig Mount
8. Single Pipe Rig Mount
9. Firmware upgrade cable
10. USB Cable
11. Hang rope
12. Leather Case

3. Button Information

Still Mode



Video Mode



4. Getting Started and Basic Operation

1. V-Control UFC-1S only works with DSLRs that can work with Canon's USB protocol, including Canon EOS 1D Mark IV, 5D Mark III, 5D Mark II, 7D, 60D, 600D/T3i/Kiss X5, 550d/T2i/Kiss X4, 500D/T1i/Kiss X3, 1100D/T3/Kiss X50, etc. (Check updated compatible models on Aputure official website)
2. V-Control UFC-1S can work for all Canon EF & EF-S lenses.

Installation

1. Insert batteries in the battery compartment.
2. Connect the camera and V-Control by the USB cable.

Tips:

V-Control's two USB interfaces cannot be used at the same time.

Button Testing

A diagnostic mode is built into the disconnected state of V-Control. Short pressing any switch by itself or turning the focus wheel will cause the LED to blink green. Long-pressing any switch will cause the LED to turn red.

Reversing Wheel Direction

The center control wheel's rotational direction can be reversed. You can adjust focus or settings in the direction of your choice.

1. The wheel's direction can only be modified while V-Control is turned on and the camera is disconnected or turned off.
2. To reverse direction, press and hold buttons <▲> and <▶>. The LED will begin blinking green and red.
3. When the LED is green for 2 seconds, the wheel's rotational direction is reversed.

Tips:

Wheel rotational direction and button functions are saved automatically, so there is no need to reset them each time you turn on V-Control.



Adjusting Focus Step Size & Focus Command Send Rate

Focus Step Size

Short-pressing <Step> cycles through three different sizes. 1, 2 or 3 will show on the right part of LED to indicate small, medium and large step sizes. The bigger the focus step is, the quicker the focus moves.



Focus Command Send Rate

Focus command send rate determines how quickly focus is adjusted, long press <Rating> and rotate center wheel to adjust the focus command send rate. The LED will indicate rate by showing 1 to 9.



Tips:

1. Don't change the focus step size or focus command send rate after focus points have been saved, or you will lose focus point accuracy.
2. LED indicates focus step size by default.

5. Functions

Live-View On/Off

Long-press <LV> to start or stop live-view display.

Tips:

7D and 500D/T1i/Kiss X3 ignore live-view "on" commands while in video recording mode. You'll need to manually activate live-view on the camera.

Digital Zoom

If live view is enabled, short-pressing <Q> cycles through 1x/5x/10x digital zoom, which can be used to aid focusing.

Tips:

Digital zoom does not work while recording is activated.

Focus Control

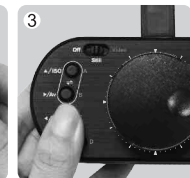
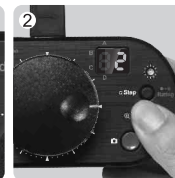
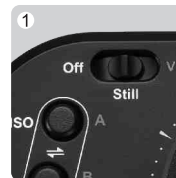
Focus can be adjusted by using the center control wheel when live-view is turned on. By default, turning the wheel clockwise will move focus closer. Turning the wheel counter-clockwise will move focus towards infinity. This matches the focus ring rotation of Canon EF and EF-S lenses. It is also possible to reverse the wheel's direction, which is described in page 8.

6. Controller Operation

Still Mode

Still mode is for taking photographs.

1. Switch V-Control to Still mode.
2. Long press <LV> to enter live-view.
3. Choose the focus area by short-pressing <▲▼◀▶>. Return the focus area to the center of the image by pressing <◀▶> together.



4. Exposure Adjustments

Long-press ISO/AV/TV/☐ and rotate the center wheel to adjust settings such as ISO, aperture, shutter speed, and exposure compensation. Stop when the new parameter has been shown on the camera.



5. Autofocus and Image Capture

Half press the red button to autofocus, and the LED will turn from red to green. Hold down to fire the shutter.



Tips:

The lens on the camera should be set to autofocus.



Video Mode

Video mode is for recording videos/movies.

1. Switch V-Control to Video mode. Set the camera to Video mode.
2. Long-press <LV> to enter live-view.



3. Save/Delete/Switch Focus Points

- 1) Rotate the center wheel to choose focus points
- 2) Saving Focus Points
Long-press <A/B/C/D> to save the current point, LED will blink green once. And the left part of LCD will indicate the corresponding point.
- 3) Delete Focus Points

Long-press the buttons again to delete the current position, and it blinks green twice. The corresponding point indicator will turn off.

4) Switching Focus Points

Short-press <A/B/C/D>, and focus will switch to the corresponding position.



Tips:

Focus points can only be saved or cleared when live view is turned on and you are not recording video.

4. Start & Stop

Long press the red button to start or stop recording the video.

5. Shoot in Video Mode

- 1) When video is not recording, half press the red button to autofocus, and LED will turn from red to green. Hold down to fire the shutter.
- 2) When video is recording, you can also half press the red button and hold down to shutter, while it won't autofocus. This won't affect video.



Tips:

When video is recording, V-Control may not control certain Canon cameras due to the cameras' properties.



7. Firmware Upgrade

- 1) Download the upgraded firmware from Aputure official website.
- 2) Connect PC and A port of V-Control UFC-1S by firmware upgrade cable.
- 3) Open the program 'V-Control Update.exe' and press 'update' to upgrade the firmware.

 Tips:

1. Only available for Windows system.
2. Switch off the V-Control UFC-1S before upgrade.
3. Ensure that your PC has USB drive program inside. Please check more details here: <http://www.aputure.com/v-control-update-download/>

8. Specifications

Power Supply: DC 3.0V(AA 1.5V X2)

Current: < 50mA

Dimensions: 114.5(L)X57.5(W)X49.2(H)MM

Standby Time: 80 hours

Working Time: 40 hours

State Indicator

State		Operation		Indicator LED
Connected	Video Mode	No operation		Light red
		Save focus point		Blink green once
		Delete focus point		Blink green twice
	Still Mode	No operation		Light green
Disconnected	Test buttons	Short press any button/ Rotate wheel		Light green
		Long press any button		Light red
	Reverse wheel direction			Blink red and green
	Switch modes	Switch from Off to Video		Blink red three times
		Switch from Off to Still		Blink green three times
	Button is stuck			Light red
	Low battery power			Blink red

9. Troubleshooting

1. Controller does not turn on.
 - Make sure the batteries have power.
 - Make sure the Mode switch is set to "Still" or "Video" mode.
2. Controller does not recognize when camera is connected.
 - Make sure camera is compatible with V-Control. (refer to page 7 for compatible models).
 - Check that USB cable is securely plugged into both V-Control and camera.
 - Make sure the batteries have power and the mode switch is set appropriately.
3. Camera displays error or is unresponsive.
 - Make sure the batteries have power and secure the mode switch is set right.
 - Disconnect the camera from the V-Control and turn both off. Pull the battery from the camera and wait 10 seconds, then replace. Reconnect the camera to the V-Control, then turn the camera on, followed by the V-Control.
4. LED continuously blinks green or red when V-Control is turned on. One of the switches is stuck. Press/release each one to find the stuck switch.
5. Button presses seem difficult.

Executing specific functions that require you to hold a button don't always work. This indicates a stuck or defective button insert. Once you have found the defective button, please contact the manufacturer.
6. If you have saved focus points, the following may lose focus point accuracy:
 - Have shifted the focus ring of the lens by hand.
 - Have changed the focal length of the lens(if using a zoom).
 - Have initiated auto focus.
 - Have continued to turn the center wheel after the focus reaches the end of the focus range.

(The instruction and information in this manual are based on strict, controlled company testing procedures. Further notice will not be given if the design and specifications change.)

Aputure®
爱图仕

V-Control UFC-1 S

USB 电子调焦控制器 进化版



使用者指南



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安全须知

为了防止对产品造成损害或伤害到您自己或他人，请在使用前充分阅读下面的安全须知，并妥善保管以便所有本产品使用者可随时参阅。

请勿自行拆卸或改装

违反此警告可能会触电或导致产品故障。若本产品因为掉落或其它意外事故造成破损，请取出电池，并送到专业维修店维修。

保持干燥

- 请勿用湿手操作，禁止将产品置于水中或在雨中作业。否则可能引起火灾或触电。
- 请勿在有易燃气体的环境下使用。
- 违反此警告可能引起爆炸或火灾。

置于儿童接触不到的地方

本产品包含的零部件，有可能造成窒息的危险。如果儿童不小心吞食了零件，请立即送往医院救治。

请勿暴露于高温环境

请勿将本产品置于阳光直射下的封闭的车辆内或其他高温环境。否则可能导致产品发生爆炸。

电池使用安全事项

- 只能使用本手册中指定的电池。不要混用新旧电池或不同类型的电池。
- 请勿拆卸电池或使电池短路。
- 装电池时要注意正负极对应正确。
- 电池电量耗尽时容易发生漏液，为防止对产品造成损害，当长期使用本产品时请将电池取出。
- 如果受损电池中的液体接触到皮肤或衣物，应立即用大量清水冲洗。

前言

感谢您购买爱图仕 Aputure® USB电子调焦控制器进化版，该产品除了保留原有产品的功能外，其更换了全新的调焦旋钮，采用更加适度的阻尼设置，大大提高了对焦点控制的顺滑度和准确度；同时增加了软件升级功能，极大保证了对佳能EOS单反相机的兼容；并对对焦点保存和删除进行了优化和改进，让您在实际使用中更加得心应手。



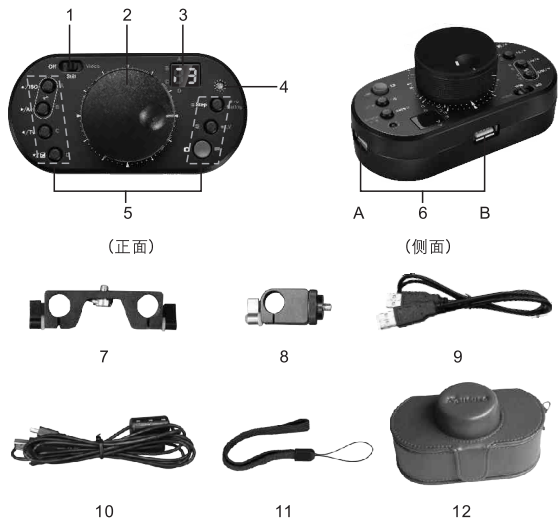
一、产品功能简介

爱图仕USB电子调焦控制器进化版共有两种工作模式：静态(Still)和动态(Video)模式。在静态模式下，可对相机的ISO、光圈、快门速度和曝光补偿等参数进行设置，并可选择对焦点。在动态模式下，可对最多四个对焦点进行选择、保存和删除，并可显示对焦点，其对相机的对焦点控制更加顺滑准确。此调焦器设计新颖，指示清晰直观，是您视频拍摄的得力助手。

主要特点：

1. 顺滑准确的对焦控制
2. 全面的视频控制
3. 全面的曝光控制（快门时间、光圈、ISO、曝光补偿）
4. 在Video模式下，可预存和显示多个对焦点
5. 在Still模式下，支持对焦点选择
6. LED显示清晰直观
7. 双USB接口，使用更灵活
8. 支持多种支架安装
9. 可通过USB升级固件
10. 一键切换照片/视频模式

二、各部件名称



控制器部件名称

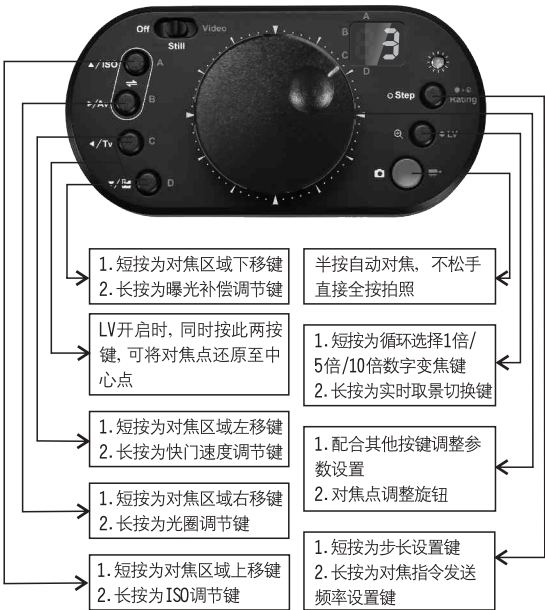
1. 档位开关 (Off/Still/Video)
2. 中心旋钮
3. LED数码管 (左边显示焦点保存状态, 右边显示对焦速度)
4. 状态指示灯
5. 多功能键
6. USB接口 (A同时为升级口)

附件名称:

7. 双管固定锁扣
8. 单管固定锁扣
9. USB升级线
10. USB数据线
11. 挂绳
12. 皮套

三、按键信息

静态(Still)模式



动态 (Video) 模式



四、产品使用前准备

1. 本产品兼容以下型号单反相机, 如Canon EOS 1D Mark IV, 5D Mark III, 5D Mark II, 7D, 60D, 600D/T3i/Kiss X5, 550D/T2i/Kiss X4, 500D/T1i/Kiss X3, 1100D/T3/Kiss X50等(如有更新, 请留意爱图仕官方网站)。
2. 本产品适用于佳能EF或EF-S镜头。

产品安装

1. 先将电池装入电池仓。
2. 将USB数据线连接调焦器和单反相机。

小贴士:
调焦器的两个USB接口不可同时使用。

按键测试

在控制器处于非连接状态并且处于Still或Video模式时, 可以进行按键测试。短按任意按键或者旋转中心旋钮, LED灯开始绿灯闪烁。长按任意按键, LED灯红灯亮起, 此时表明此控制器按键是正常的。

反转设置

您可以通过反转设置对相机的参数调整和调焦方向进行反向调节, 即中心旋钮使用的方向与之前的方向相反。

1. 将USB调焦器开启并处于非连接状态。
2. 同时按住<▲>键和<▶>键, 红绿指示灯会交替闪烁。
3. 当绿灯长亮2秒, 表示反转设置成功。

小贴士:
每一次方向被反转设置后, 控制器即使重启, 之前的设置也会被保存。



对焦步长及对焦指令发送频率调节

对焦步长的调节

短按<Step>键可以循环选择短/中/长三种步长，LED数码管的右边部分以1/2/3显示相对应的步长。对焦步长设置的越大，镜头每一步移动的距离越大，焦点移动的就越快，反之亦然。



对焦指令发送频率的调节

该设置决定了镜头以何种速率进行对焦。长按<Rating>按键，同时旋转中心旋钮即可调节对焦指令发送频率。以1-9对应显示。



小贴士：

1. 请不要在焦点保存后改变对焦步长和发送频率，否则对焦点精度会受影响。
2. LED数码管默认显示为对焦步长参数。

五、控制器功能简介

相机实时取景开启/关闭

长按<LV>按键开启或关闭实时取景。

小贴士：

在视频录制模式时，7D和500D/T1i/Kiss X3会忽视实时取景“开启”指令，您必须手动开启相机上的“实时取景”功能。

数字变焦

相机启动实时取景后，短按<Q>按键可以循环选择1倍/5倍/10倍的比例放大对焦框的内容，您可以配合中心旋钮进行精确对焦。

小贴士：

在视频录制过程中，不能使用数字变焦。

焦点控制

当实时取景模式打开后，可以利用中心旋钮选择对焦点。当旋钮以顺时针旋转时将焦点拉近，当旋钮以逆时针旋转时将焦点向无限远移动。这种机制与佳能EF和EF-S镜头的旋转相符合。当然您也可以反向设置旋钮方向，反转设置请参阅P7。

六、控制器操作

静态(Still)模式

静态模式为相机拍摄照片的模式

1. 将档位开关拨至Still档。
2. 长按<LV>按键，打开相机的实时取景功能。
3. 选择对焦区域。

短按<▲▼◀▶>按键可对对焦区域进行选择。当数字变焦为1X时，同时按下<◀▼>按键可将对焦矩形框恢复到画面的中央。



4. 曝光调节

长按标有ISO/AV/TV/☐的图标按键，同时旋转中心旋钮以分别改变相机的感光度、光圈、快门速度、曝光补偿，当新的参数显示在相机上时，释放按键和旋钮。



5. 自动对焦及拍照

半按红色按键，相机进行自动对焦，此时的对焦框由红色变为绿色，不松手继续长按，相机拍照。

小贴士：

自动对焦时，相机的镜头需要拨到自动档。



动态 (Video) 模式

动态模式为相机拍摄视频的模式

1. 将档位开关拨至Video模式，相机设置为视频录制模式。
2. 长按LV按键，打开相机的实时取景功能。



3. 对焦点的保存/清除/切换

- 1) 旋转中心旋钮用以选择对焦点。

2) 保存对焦点

长按<A/B/C/D>按键会以当前位置存储对焦点，绿灯闪烁一次，同时LED数码管左半部分对焦点相应的指示灯亮。

3) 清除对焦点

再次长按<A/B/C/D>按键，之前存储的对焦点将被清除，此时绿灯闪烁两次，同时LED数码管左半部分对焦点相应的指示灯灭。

4) 切换对焦点

短按<A/B/C/D>任一按键，对焦点将切换到相对应存储的位置。



小贴士：

当实时取景开启但是没有进行视频录制的时候，对焦点可以保存和清除。

4. 视频拍摄开启/关闭

直接全按红色按键可以开启或者关闭视频录制。

5. 动态 (Video) 模式下拍照

- 1) 视频拍摄关闭时：半按红色按键相机自动对焦，此时的对焦框由红色变为绿色，不松手继续长按，相机拍照。

- 2) 视频拍摄开启时：半按红色按键后不松手继续长按，相机拍照。拍照不影响视频拍摄。

小贴士：

某些佳能相机在视频拍摄过程中，不能拍照。



七、固件升级

- 1) 从官网下载升级软件。
- 2) 用USB升级线将PC与控制器（升级口）进行连接。

3) 打开“V-Control Update.exe”程序，并点击“Update”进行升级。

📖 小贴士：

- 1、暂只支持Windows系统。
- 2、升级时请将控制器关机。
- 3、第一次使用时需安装USB驱动，请参考官网详细升级方法。
<http://www.aputure.com/v-control-update-download/>

八、技术参数

工作电压：DC 3.0V(AA 1.5V X2)
工作电流：<50mA
产品尺寸：114.5(L) X 57.5(W) X 49.2(H)MM
待机时间：80个小时
连续工作时间：40个小时

LED状态指示灯信息

状态		操作	LED灯指示
连接状态	Video模式	无操作	红灯常亮
		保存对焦点	绿灯闪烁一次
	Still模式	清除对焦点	绿灯闪烁两次
		无操作	绿灯常亮
非连接状态		按键测试，短按任意按键或者旋转中心旋钮	绿灯亮
		按键测试，长按任意按键	红灯亮
		反转设置	红绿指示灯交替闪烁
		档位切换，从Off档拨至Video档	红灯闪三下后熄灭
		档位切换，从Off档拨至Still档	绿灯闪三下后熄灭
		按键被卡住	红灯常亮
		电池电量不足	红灯闪烁

九、常见问题

1. 控制器不能开启

- 请确认电池的电量是否充足。
- 确认控制器拨至Still或Video模式。

2. 控制器与相机连接但无法识别

- 请确认相机与控制器是否兼容（兼容机型请查阅本手册中的P7）。
- 请确认USB数据线的两端分别已经完全插入控制器和相机。
- 请确认相机工作正常并且电量充足。

3. 相机显示错误或者反应迟钝

- 请确认电池的电量，并确认控制器已拨至正确的模式。
- 将USB数据线移除，分别将相机与控制器关闭。将相机电池取出并等待10秒，随后重新装入电池，再次将相机与控制器连接，接着打开相机，启动控制器。

4. 当控制器打开后LED灯连续不断的闪烁红灯或绿灯

某一个按键被卡住。逐个按住或者松开以便找出被卡住的按键。

5. 按键使用困难

执行特定功能时按下功能键但无法工作。这种情况是由于按键被卡住或者有缺陷造成的。通过测试逐个检测按键，一旦发现问题按键，请退回厂家进行维修。

6. 在对焦点保存后，以下操作会导致对焦点的精确性

- 手动对相机的对焦环进行调节。
- 改变镜头的焦距（使用了变焦）。
- 使用了自动对焦。
- 在焦点到达可调焦临界点后没有停下来，继续旋转中心旋钮。

此说明书依据本公司严格测试制定。设计和规格如有变更，恕不另行通知。