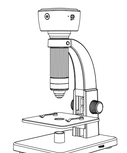
尺寸：5.5cm*11.5cm

中文说明书

WiFi数码显微镜



使用说明书

CN

重要提示

1. 首次使用前请给设备充满电，至少充电 1 小时以上才可正常使用，请不要直接通过 PC 端充电，请选择 5V /1A 适配器。
2. 如利用显微镜观察细胞或者微生物，用显微镜进行观察的材料一定要清洁透明，因此需要自制标本板并来做到。
3. 本设备不能准确读数显微镜倍数，属于数码和光学结合放大的显微镜，具体放大效果以实际拍摄图片为准。
4. 连接 wifi 的时候，请点击允许该应用已经在移动数据下使用，不会设置的私人信息。
5. 显微镜不能在手机端和 PC 端同时使用。
6. 使用过程中不要使用手机网络和蓝 wifi。
7. 当设备连接电脑观看图像时，设备指示灯键不能使用。
8. 显微镜最佳的放大倍数为 50-500 倍，超过 500 倍的放大倍率，适用于高倍率，当您需要看清细胞壁 / 细胞核 / 细胞膜的更多细节时，或者在查看标本样本（例如植物细胞观察用）时，可以使用它。
9. WiFi 连接仅适用于您的手机和平板电脑，不能使用 PC 电脑。如果您想在 PC 电脑上使用，请通过 USB 数据线连接，并请下载正确的电脑软件使用。
10. 请关闭手机中无用的 APP 以确保我们的显微镜运行顺利，并且不会卡住，崩溃。
11. 请您用于触摸镜头以及其它光学部件，否则会导致图像模糊，影响成像质量。

12. 请勿自行拆解产品或者部件结构，以免造成设备使用异常。
13. 如屏幕显示的时候有静止不动的黑点，请用清洁布擦拭镜头表，擦完黑点消失即可，如下图。

产品简介

感谢您购买我们的 WiFi 电子显微镜，该产品可以轻松地用于不同领域，包括：

1. 纺织工业用于纺织品检验
2. 印刷检验
3. 工业检验，PCB，精密机械
4. 教育目的
5. 头发检查
6. 皮肤检查
7. 微生物观察
8. 珠宝和硬币（收藏）检查
9. 视觉辅助
10. 其他

这是一款型概式 WiFi 电子显微镜，配有 Wifi 热点，不仅支持连接 iOS / Android 系统手机以及平板电脑，同时，还支持 USB 连接到计算机，屏幕缩入，显示效果越好，图像质量越清晰。

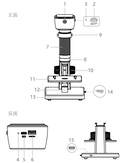
该设备通过手机 APP 和电脑软件可拍照，录像和文件存储。

功能简介

（一）标准配件

1. 电子显微镜主机
2. USB-A/USB-C（数据传输线）
3. USB-A/USB-micro（支架光源充电线）
4. USB-A/USB-type-c（产品充电线）
5. 生物培养皿

（二）接口名称和功能



1	可调/定焦镜头
2	可调节镜轮
3	聚焦轮
4	指示灯
5	电池充电指示
6	电源开关
7	支架可调节
8	支架可旋转
9	支架可伸缩
10	载物台
11	支架光源
12	支架光圈
13	支架可调节角度
14	支架固定螺母
15	可拆卸镜头

使用步骤

（一）镜头安装

1. 该显微镜包括两个可用于不同目的的镜头：

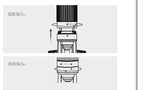
——1 号镜头可提供高达 500 倍的放大倍率，适用于低倍率，例如 PCB 精密焊接，昆虫的观察以及珠宝，纸币检测的更多细节。

——2 号镜头可提供高达 2000 倍的放大倍率，适用于高倍率，当您需要查看细胞壁 / 细胞核 / 细胞膜的更多细节时，或者在查看标本样本（例如植物细胞观察用）时，可以使用它。

——镜头安装方式：如下图所示。

装配镜头时，请点击头部和 ▲ 并对 ■ ，垂直放入主机，向右旋转对齐到 ■ 即可。

拆卸镜头时，向左旋转镜头，对准旋转标，如下图所示。



（二）支架固定

您旋完镜头之后，将主机放置到支架定位孔里，顺时针拧紧支架固定螺母，将支架底座一个平稳的台面（台面不能会导致底部开动）。

（三）图像观看

——手机端用户

1. APP 下载安装

a. iOS：

在 App Store 中搜索“Wifi Check”进行下载并安装，然后使用该产品。

b. Android：

在 Google Play 中搜索“Wifi Check”进行下载和安装。

或者用手机浏览器扫描以下二维码下载并安装。

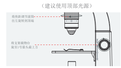
2. 开启设备

长按设备开关机键 3s，即可看到指示灯进行闪烁，当设备连接成功后停止闪烁常亮状态。

3. Wifi 连接

打开你手机设置里面的 Wifi 设置区域，找到名为 isshuai15e-xxx 的 Wifi 热点（无密码），点击连接，连接成功后，指示灯亮，即可使用该设备（设备连接成功后指示灯是色常亮）。

4. 快速对焦



注意：用 1 号镜头观察被测物时，载物台只能在支架标识的 1 号调节范围内上下移动，用 2 号观察被测物时，载物台只能在支架标识的 2 号调节范围内上下移动，超出对应的范围均不可成像。

5. 精确对焦

通过调节两手轴承，我们可确定好大概物距，然后根据实际放成调节实际所需要的位数，支架调节和主机调节是对应的，如果是在清晰的状态下，支架调节位往下调节，对应的负距调节就需要往右旋转，往低减小，支架旋转位往上调节，对应的负距调节就需要往左旋转，往低增大。

6. 支架灯光使用

当观测载玻片等透明物体时，进行开支架灯箱，请选择 DV.1S 适配器（本设备未配置）连接支架光源充电线接口，支架光源即点亮。

7. 手机 APP 界面的介绍和使用

拍照：点击拍照。

录像：点击录制视频 / 结束视频录制。

保存文件：点击查看或删除已拍摄的照片或视频。

旋转：点击旋转视频对象 90°。

镜像：点击镜像左右翻转。

分辨率：点击切换不同的分辨率。

——电脑端用户

• 注意：当使用电脑时时候，设备指照键不能使用。

（MAC 用户）

1. 对于 Macbook（Mac OSX 11.0+）

请直接使用 Macbook 的摄像程序 Photo Booth 或 Quick Time Player。

2. 在下载“窗口的”应用程序”后录制，我们一个名为“Photo Booth”的应用。

3. 连接设备

通过 USB 电缆与计算机连接，然后长按以打开设备，运行“Photo Booth”，选择摄像头“GENERAL-UVC”，如下图所示。后可使用（连接电脑时，指示灯键已会熄灭）。

（Windows 用户）

1. 对于 Win 10 及可以直接插入 USB 端口并在 WINDOWS 中搜索 CAMERA 以找到它并单击。

对于 win 7/8/8.1 则“Aecup”的解决此问题。

注意：请使用 Windows 中默认的笔记本电脑摄像头！您必须更改摄像头的隐私设置，需要进行更改才能允许访问。

2. 或者从以下链接下载并安装软件“Smart Camera”www.ionkam.com/download/camera_zip

3. 连接设备

通过 USB 电缆与计算机连接，然后长按以打开设备。

第一次插入计算机时，它将自动安装 USB 驱动程序，请等待计算机成功显示安装，如果安装失败，请将光标入或更改另一个 USB 端口。

4. 单击“Smart Camera”图标以开始使用显微镜。

5. 单击设置选项，然后选择相机“GENERAL-UVC”

充电

1. 请使用 DV/1A 的电源适配器和产品充电线为设备充电，电池充电时显示灯，设备工作指示灯将常红色，电池完成充电后，工作指示灯将常绿灯，整个充电过程约 3 小时。
2. 完全充电后，您可以连续使用显微镜长达 5 个小时
3. 设备完全无电状态下，您少需要用 DV/1A 充电充电器

产品参数

像素	500万像素
最大倍率	50-2000X
WiFi连接距离	5m（干扰环境）
工作电流	0-250mA
对焦模式	手动对焦
视频格式范围	30m-70cm
拍照格式	JPG/BMP
USB接口类型	USB2.0
数据格式	JPG/MP4
光源	10颗LED(USB)可调节（亮度可调）
操作系统	Android 4.4x、iOS 8.x 或以上 Windows XP、Vista、Win7/8/10、Mac 10.x 或以上
电源	1800MW电池3.7V/1800mAh 工作时间：3小时；充电时间：3-5小时

故障排除

如果设备无法正常工作，请打开相同说以下内容以解决问题或联系我们获取解决方案。

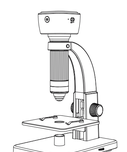
问题	解决方法
设备无法开启	1. 电池是否充电 2. 是否已经充电 3. 连接的数据线 / 手是充电线是已经坏
手机无图像	1. 检查手机上的WiFi设置，确认设备名称为isshuai-xxx 2. 关闭WiFi并重新打开。 3. 关闭设备并重新打开。 4. 检查手机是否允许WiFi连接到互联网。 5. 检查手机是否已经为设备授权。
图像不清晰	1. 确保调整物体表面已被充分对焦 2. 物体表面已经被干净擦拭好 3. 尝试更换镜头
图像上显示黑斑	1. 您需要清洁相应镜头 2. 镜头表面已经被干净擦拭好 3. 镜物台是否干净
拍照或录像不可 / 拍照不清晰不可使用此应用	1. 检查您是否使用的是“Wifi Check” 2. 您是否使用支持的型号 3. 检查手机是否已经为设备授权 4. 检查手机是否已经为设备授权
设备关机	1. 检查您是否已经为设备充电 2. 检查充电电缆是否正常 3. 更换充电电缆
操作系统	1. 检查您是否已经为设备充电 2. 检查充电电缆是否正常 3. 更换充电电缆
屏幕图像有黑边	1. 镜头表面的镜头表面干净好 2. 镜物物物表面清洁
如何为第（1-2）步骤？	1. 进入“设置”页面，打开或关闭WiFi，然后选择“Wifi Check”，以连接至该“WiFi”。

CE FC RoHS

MADE IN CHINA

英文说明书

WiFi digital microscope



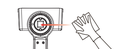
User manual

EN

IMPORTANT HINT

1. Please fully charge the device before using it for the first time, and charge it for at least 1 hour before it can be used normally. Please do not charge directly through the PC terminal. Please choose a 5V 1A adapter.
2. If you use a microscope to observe cells or microorganisms, the material used for observation with the microscope must be thin and transparent, so you need to make your own specimen slides for observation.
3. This equipment cannot accurately read the magnification of the microscope. It is a microscope that combines digital and optical magnification. The specific magnification effect is subject to the actual picture taken.
4. When connecting to the app, please click allow to read the location information and storage space. Your private information will not be read.
5. The microscope cannot be used on both the mobile phone and the PC at the same time.
6. Do not use mobile phone network and home wifi during use.
7. When the device is connected to the computer to view images, the camera button of the device cannot be used.

8. The best focal length of the microscope is 0-70mm. You need to adjust the focal length through the focal length adjustment roller to achieve the clearest state.
9. WiFi connection is only applicable to your mobile phone and tablet, PC computer cannot be used, if you want to use it on PC computer, please connect via a USB data cable, and please download the correct computer software to use.
10. Please close the useless APP in your phone to ensure that our microscope runs smoothly and will not get stuck or crash.
11. Do not touch the lens and other optical parts with your hands, otherwise the image will be blurred and the image quality will be affected.
12. Do not disassemble the product or component structure yourself to avoid abnormal use of the equipment.
13. If there are static black spots when the screen is displayed, please wipe the lens plate with a cleaning cloth until the black spots disappear, as shown in the figure below.



PRODUCT INTRODUCTION

Thank you for purchasing our WiFi electron microscope, which can be easily used in different fields, including:

1. Textile industry for textile inspection
2. Printing inspection
3. Industrial inspection: PCB, precision machinery
4. Educational purpose
5. Hair check
6. Skin examination
7. Microbial observation
8. Jewelry and coins (collection) check
9. Visual Aids
10. Other

This is a portable WiFi electron microscope with WiFi hotspot. It not only supports connection to iOS/Android system mobile phones and tablets, but also supports USB connection to the computer. The larger the screen, the better the display effect and the clearer the image quality.

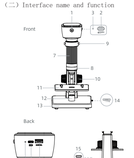
The device can take pictures, video and file storage through mobile APP and computer software.

FUNCTION INTRODUCTION

(一) Standard accessories

1. Electron microscope host
2. USB-A/USB-A (data transmission line)
3. USB-A/USB-micro (bracket light source charging cable)
4. USB-A/USB-type-c (product charging cable)
5. 2 biological slices
6. Cleaning cloth
7. Tree manual
8. Lens 1
9. Lens 2
10. Lifting bracket

(二) Interface name and function



1	Power/Camera button
2	LED adjusting wheel
3	Mount hole
4	Indicator light
5	Charging port
6	Data transmission interface
7	Focus adjustment roller
8	Detachable lens
9	Bracket fixing nut
10	Bracket adjustment hook
11	Stage
12	Bracket light source
13	Fixed base
14	Bracket LED adjustment dial
15	Bracket power interface

STEPS FOR USAGE

(I) Lens installation

1. The microscope includes two lenses that can be used for different purposes:

——Lens No. 1 can provide up to 500 times magnification, suitable for low magnification, such as PCB precision welding, observation of insects and inspection of jewelry, banknotes and coins.

——Lens No. 2 can provide up to 2000 times magnification, suitable for high magnification, but also supports USB connection to the computer. The larger the screen, the better the display effect and the clearer the image quality.

2. Lens installation method: as shown in the figure below.

When assembling the lens, make sure that the lens icon ▲ is facing ■ , put it vertically into the main unit, and rotate it to the right to align it to ■ .

When disassembling the lens, rotate the lens to the left for quick disassembly. As shown below.

(二) Bracket fixed

After assembling the lens, place the host into the bracket positioning hole and tighten the bracket fixing nut clockwise. Place the stand on a stable surface (an unstable surface will cause the picture to shake).

(三) Image viewing

—— Mobile users

1. APP download and installation

a. iOS:

Search for "Wifi Check" in the App Store to download and install, and then use the

b. Android:

Search for "Wifi Check" in Google Play to download and install.

Or use the mobile browser to scan the following QR code to download and install.

2. Turn on the device

Long press the device switch button for 3 seconds, you can see the indicator light flashes blue, when the device is successfully connected, it stops flashing to a steady state.

3. WiFi connection

Open the WiFi setting area in your mobile phone settings, find the WiFi hotspot named isshuai15e-xxx (without password), click connect, after the connection is successful, return to the software, you can use the device (the indicator light is always on when the device is successfully connected).

4. Quick focus

Note: When using the 1x, 1 lens to observe the object under test, the stage can only move up and down within the No. 1 adjustment range marked by the bracket. When observing the object under test with No. 2, the stage can only move up and down within the No. 2 adjustment range marked by the bracket, and no imaging is allowed beyond the corresponding range.

5. Precise focus

Through the fourth step of operation, we can determine the approximate object distance, and then adjust the actual multiple required according to the actual situation. The bracket adjustment and the host adjustment are corresponding. If it is in a clear state, the bracket stage is adjusted downwards. The corresponding focus adjustment roller needs to be rotated to the right, and the multiple is reduced. The bracket stage is adjusted upwards, and the corresponding focal length adjustment roller needs to be rotated to the left, and the multiplier increases.

6. Use of bracket lighting

When observing transparent objects such as glass slides, please turn on the stand light source, please select the DV.1S adapter (this device is not equipped) to connect the stand light source charging line to power the stand light source.

1. Introduction and use of mobile APP interface

Take a photo: Click to take a photo.

Video: Click to record video/end video recording.

Save files: Click to view or delete the photos or videos that have been taken.

Rotation: Click to rotate the observation object 90°.

Mirror: Click the image to flip left and right.

Resolution: Click to switch between different resolutions.

——PC user

•Note: When using a computer, the camera button of the device cannot be used.

（MAC users）

1. For Macbook（Mac OSX 11.0+）

Please directly use the Photo Booth or Quick Time Player bundled with Macbooks.

2. In the "Applications" directory of the Finder window, find an application named "Photo Booth"

3. Connect the device

Connect to the computer via a USB cable, then long press to turn on the device and run "Photo Booth". Select the camera "GENERAL-UVC", as shown in the figure below., Ready to use (when connected to the computer, the green indicator light will flash slowly).

（Windows users）

1. For win 10, you can directly insert the USB port and search for CAMERA in WINDWS to find it and click.

For win 7/8, downloading "Aecup" will solve this problem.

Note: Please disable the default laptop camera in Windows! You must change the privacy settings of the camera, and you need to make changes to allow access.

2. Or download and install the software "Smart Camera" from the following link:

www.ionkam.com/download/camera_zip

3. Connect the device

Connect to the computer via a USB cable, and then long press to turn on the device.

When you plug it into the computer for the first time, it will automatically install the USB driver. Please wait for the computer to successfully display the installation. If the installation fails, please plug it in again or change another USB port.

4. Click the "Smart Camera" icon to start using the microscope.

5. Click the settings option, and then select the camera "GENERAL-UVC"

CHARGING

1. Please use a DC/1A power adapter and product charging cable to charge the device. When the battery is charging, the working indicator of the device will be red. After the battery is fully charged, the working indicator will be green. The entire charging process takes about 3 hours.

2. After fully charged, you can use the microscope continuously for up to 5 hours

3. When the device is completely unpowered, it needs to be charged with a 5V/1A charging adapter for at least 1 hour before it can be used normally.

PRODUCT PARAMETER

Pixel	5.0M pixels
Magnification	0X-2000X
WiFi connection distance	5m (open environment)
Working height	0-70mm
Focus mode	Manual focus
Knob focus range	2mm/20mm
Dynamic frame number	20-28FPS
USB interface type	USB2.0
Data format	JPG/MP4
Light source	10 bright LED 8pins +1 super bright LED light (brightness adjustable)
Operating system	Android 4.4, iOS 8.0 or above Windows XP, Vista, Win7/8/10, Mac 10.0 or above
Power supply	1800MAH lithium battery 3.7V/1800mAh Working time: 3 hours; Charging time: 3 hours

TROUBLESHOOTING

Problem	Solution
Device cannot be turned on	1. Is the battery charged? 2. Is the battery charged? 3. Is it charging for more than 1 hour when there is no electricity
No image on phone	1. Check the WiFi settings on the phone to see if the device name is the default isshuai-xxx. 2. Turn off the device and turn it on again. 3. Check if the phone allows Wifi Check to connect to the Internet. 4. Check whether the mobile phone has closed the data network.
The image is not clear	1. Check whether the measured object is correctly positioned directly under the lens 2. Whether the focal length has been adjusted to the best position 3. Whether the light is used correctly
Dark spots appear on the image	1. Clean the lens lens carefully with a soft cloth 2. Check whether there is dirt on the surface of the lens 3. Whether the stage is dirty
The microscope is connected to the PC. After successfully downloading and opening the software, there is no image	1. Reconnect the microscope and PC. 2. Connect to the USB port on the back of the host computer. 3. Whether the battery has low power alarm 4. Is the data cable used correctly?
Device crashes	1. Press the reset hole of the host with a fine needle to restart the device.
The battery indicator does not light red when charging	1. Check whether the charging head is normal 2. Whether the charging cable is normal 3. Check if the battery is properly assembled
Screen image has black edges	1. Is the lens fixed in the middle of the bracket 2. Whether the object being observed is placed upright
Camera flashback (iOS device)	1. Go to the "Settings" page and find "Wifi Check" in the application section at the bottom to allow "Photos" to be turned on.

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