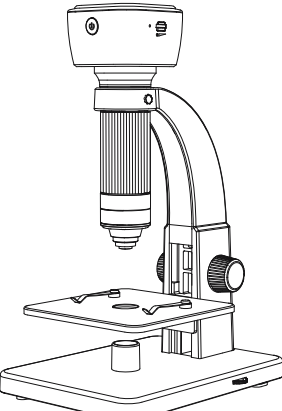


尺寸：5.5cm\*11.5cm

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薄而透明,因此需要自制标本玻片来观察。

3. 本设备不能准确读取显微镜数值,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app的时候,请点击允许读取位置信息和存储空间,不会读取您的私人信息。

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家庭wifi。

7. 当设备连接电脑观看图像时,设备拍照键不能使用。

8. 显微镜最佳焦距为0-70mm,您需要通过焦距调节滚轮来调节焦距,来达到最清晰状态。

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. 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. 请勿用手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。

功能简介

(一) 标准配件

1. 电子显微镜主机

2. USB-A/USB-A (数据传输线)

3. USB-A/USB-micro (支架光源充电线)

5. 生物切片2片

6. 清洁布

7. 使用说明书

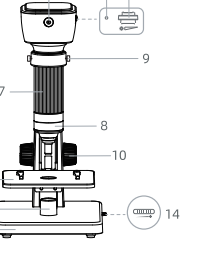
8. 1号镜头

9. 2号镜头

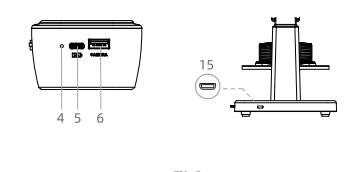
10. 升降支架

(二) 接口名称和功能

正面



反面



1. 纺织工业用于纺织品质检

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

这是一款便携式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。屏幕越大,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。

产品简介

感谢您购买我们的WiFi电子显微镜,该产品可以轻松用于不同领域,包括:

1. 纺织工业用于纺织品质检

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

这是一款便携式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。屏幕越大,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。

电源/拍照键

LED调节滚轮

复位孔

指示灯

充电口

数据传输接口

焦距调节滚轮

可拆卸镜头

支架固定螺母

支架调节按钮

载物台

支架光源

支架底座

支架LED调节滚轮

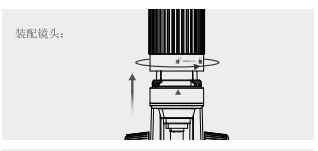
支架电源接口

镜头安装方式: 如下图所示。


装配镜头时,确认镜头图标▲正对,垂直放入主机,向右旋转对齐即可。

拆卸镜头时,向左旋转镜头,可快速拆卸。如下图所示。

装配镜头:



拆卸镜头:



(二) 支架固定


组装完镜头之后,将主机放置到支架定位孔里,顺时针拧紧支架固定螺母,将支架放在一个平整的台面(台面不稳会导致画面抖动)。

(三) 图像观看

手机端用户


1. APP下载及安装

a. iOS:



打开手机设置里面的WiFi设置区域,找到名为inskam315w-xxxx的WiFi热点(无密码),点击连接,连接成功后,返回软件,即可使用该设备(设备连接成功后指示灯蓝色常亮)。

b. Android:

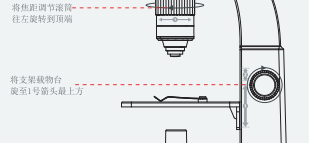


在Google Play中搜索"WiFi Check"进行下载和安装。

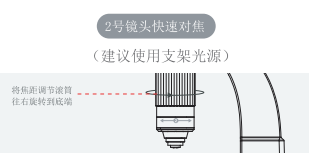
或者用手机浏览器扫描以下二维码下载并安装。

快速对焦

1号镜头快速对焦



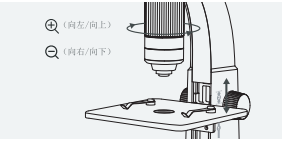
2号镜头快速对焦



注意: 用1号镜头观察被测物体时,载物台只能在支架标识的1号调节范围内上下移动,用2号镜头观察被测物体时,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。

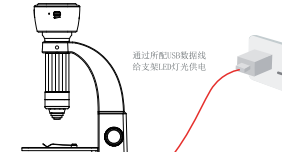
精确对焦

通过第四步操作,我们可确定好大概物距,然后根据实际情况调节实际所需要的倍率,支架调节和主机调节是对应的,如果是在清晰的状态下,支架载物台下调节,对应的焦距调节滚轮需要往右旋转,倍率减小,支架载物台往上调节,对应的焦距调节滚轮需要往左旋转,倍率增大。



6. 支架灯光使用

当观测载玻片等透明物体时,请打开支架光源,请选择5V/1A适配器(本设备未配置)连接支架光源充电线给支架光源供电。



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。

旋转: 点击旋转观测对象90°。

镜像: 点击图像左右翻转。

分辨率: 点击切换不同的分辨率。

——电脑端用户

\*注明: 当使用电脑的时候,设备拍照键不能使用。

(MAC用户)

1. 对于Macbook (Mac OS X 11.0+)

请直接使用Macbooks的捆绑软件Photo Booth或Quick Time Player。

2. 在Finder窗口的“应用程序”目录里,找到一个名为“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。

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,请再次插入或更改另一个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”



(Windows用户)

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

对于win 7/8,下载“Amcap”将解决此问题。

注意: 请禁用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.inskam.com/download/camera.zip](http://www.inskam.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,请再次插入或更改另一个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5V/1A的电源适配器和产品充电线为设备充电,电池充电状态下,设备工作指示灯将呈红色,电池充满充电后,工作指示灯将呈绿灯,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,至少需要用5V/1A充电充电器


产品参数

像素	500万像素
放大倍率	10X-2000X
WiFi连接距离	5m (开放环境)
工作高度	0-70mm
对焦模式	手动对焦
景深调节范围	2mm-55mm
动态帧率	20-200/f/s
USB接口类型	USB2.0
数据格式	JPG/MP4
光源	10颗高亮LED灯+1颗超亮LED灯 (亮度可调)
操作系统	Android 8.0, iOS 9.0 或以上 Windows XP, Vista, Win7/8/10, Mac 11.0 或以上
电池	18650锂电池,TV/1800mAh 工作时间: 5小时; 充电时间: 3小时

故障排除

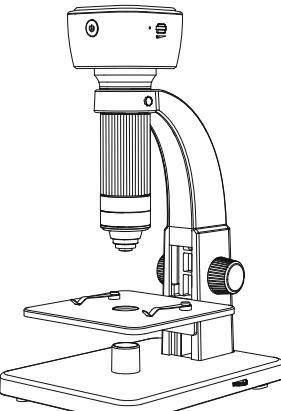
如果设备无法正常工作,请仔细阅读以下内容以解决问题或联系我们获取解决方案。

问题	解决方法
设备无法开机	1. 电池是否有电 2. 是否已充电 3. 设备充电时是否完全充满电超过1小时
手机无图像	1. 检查手机端口设置,确认设备是否连接正确 2. 关闭手机屏幕刷新 3. 关闭设备并重新打开 4. 检查手机是否支持WiFi Check连接检测 5. 检测手机是否已关闭无线局域网
图像不清晰	1. 确认被测物体是否正对镜头正下方 2. 焦距是否已调节到最佳位置 3. 检查设备使用正确
图像上显示黑圈	1. 固定被测物体并避免镜头晃动 2. 被测物体表面是否有油污 3. 载物台是否有划痕
设备无法连接到PC端,成功下载并打开软件后,无图像	1. 重新连接显微镜和PC端 2. 连接电脑主机后重新插拔USB 3. 电脑是否已安装驱动设备 4. 数据线是否使用正确
设备关机	1. 用鼠标单击设备关机,关闭设备
充电时电池指示灯不亮或乱	1. 检查充电器是否正确 2. 检查充电器是否正常工作 3. 重新插拔充电接口
屏幕图像有黑边	1. 镜头是否固定在支架正中间 2. 观察物体是否成实
拍照无反应 (旧设备)	1. 进入“设置”页面,在底部同时按住屏幕底部“WiFi Check”,以允许开启“照片”。



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.

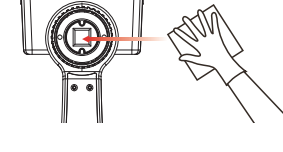
9. WiFi connection is only applicable to your mobile phone and tablet, PC computer cannot be used, if you want to use it on PC computer, please connect via a USB data cable, and please download the correct computer software to use.

10. Please close the useless APP in your phone to ensure that the 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)

5. 2 biological slices

6. Cleaning cloth

7. User manual

8. Lens 1

9. Lens 2

10. Lifting bracket

2. USB-A/USB-A (数据传输线)

3. USB-A/USB-micro (支架光源充电线)

5. 2 biological slices

6. Cleaning cloth

7. User manual

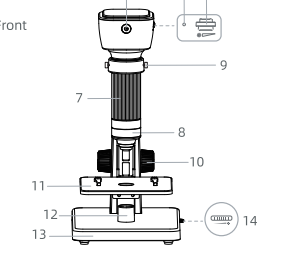
8. Lens 1

9. Lens 2

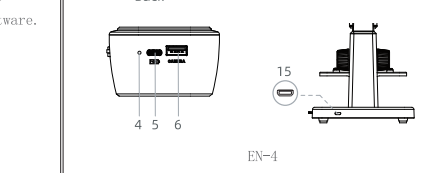
10. Lifting bracket

(二) Interface name and function

正面



反面



1. 纺织工业用于纺织品质检

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

这是一款便携式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。屏幕越大,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。

电源/拍照键

LED调节滚轮

复位孔

指示灯

充电口

数据传输接口

焦距调节滚轮

可拆卸镜头

支架固定螺母

支架调节按钮

载物台

支架光源

支架底座

支架LED调节滚轮

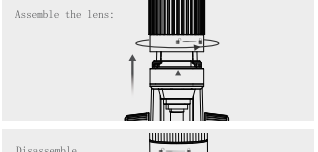
支架电源接口

镜头安装方式: 如下图所示。


装配镜头时,确认镜头图标▲正对,垂直放入主机,向右旋转对齐▲即可。

拆卸镜头时,向左旋转镜头,可快速拆卸。如下图所示。

装配镜头:



拆卸镜头:



(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

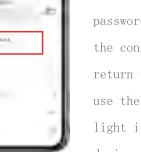
1. APP download and installation

a. iOS:



Search for "WiFi Check" in the App Store to download and install, and then use the device.

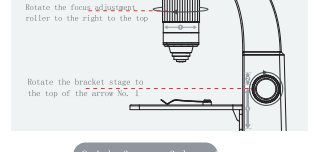
b. Android:



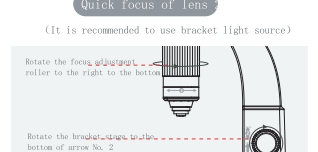
Search for "WiFi Check" in Google Play to download and install.

快速对焦

Quick focus of lens



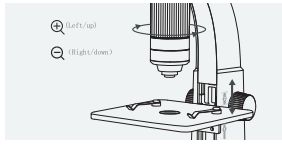
Quick focus of lens



Note: When using the No. 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.

精确对焦

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.



7. Introduction and use of mobile APP interface

Take a photo: Click to take a photo.

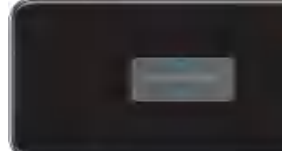
Video: Click to record video/end video recording.

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 OS X 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 WINDOWS to find it and click.

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

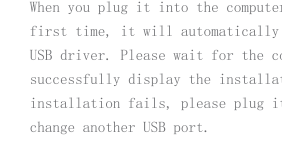
Note: Please disable the default laptop camera in Windows! You must change the privacy settings of the camera, and you need to make changes to allow access.

2. Or download and install the software "Smart Camera" from the following link: [www.inskam.com/download/camera.zip](http://www.inskam.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.



PRODUCT PARAMETER

Pixel	5,0M pixels
Magnification	10X-2000X
WiFi connection distance	5m (open environment)
Working height	0-70mm
Focus mode	Manual focus
Knob focus range	2mm-55mm
Dynamic frame number	20-200/f/s
USB interface type	USB2.0
Data format	JPG/MP4
Light source	10 bright LED lights +1 super bright LED light (brightness adjustable)
Operating system	Android 8.0, iOS 9.0 or above Windows XP, Vista, Win7/8/10, Mac 11.0 or above
Power supply	18650 lithium battery 3.7V/1800mAh Working time: 5 hours; Charging time: 3 hours

TROUBLESHOOTING

Problem	Solution
Device cannot be turned on	1. Is the battery charged? 2. Is power connected 3. Is it charged for more than 1 hour when there is no electricity
No image on phone	1. Check the WiFi settings on the phone to confirm whether the device is successfully connected. 2. Close the APP and reopen it. 3. Turn off the device and turn it on again. 4. Check if the phone allows WiFi Check to connect to wireless. 5. Check whether the mobile phone has closed the data network.
The image is not clear	1. Confirm 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. Whether there is dirt on the surface of the measured object 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. Check whether the 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 feedback (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.

