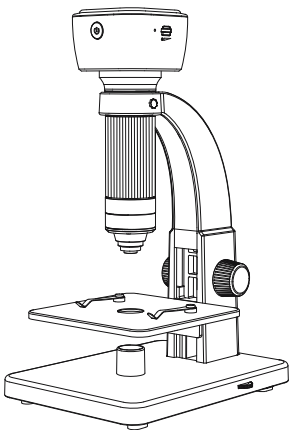


# sisco

## WiFi digital microscope



### User manual

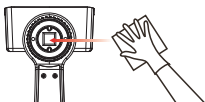
CN

inskam-315W

## 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.

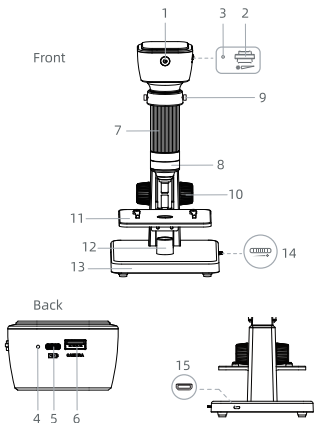


# FUNCTION INTRODUCTION

## (一) Standard accessories

1. 1 electron microscope host
2. 2 USB data lines
3. 2 biological slices
4. 1 piece of cleaning cloth
5. User manual
6. 1 lens 1
7. 1 lens 2
8. Lifting bracket

## (二) Interface name and function



- |                                      |                                       |
|--------------------------------------|---------------------------------------|
| <b>1</b> Power/Camera button         | <b>9</b> Bracket fixing nut           |
| <b>2</b> LED adjusting wheel         | <b>10</b> Bracket adjustment knob     |
| <b>3</b> Reset hole                  | <b>11</b> Stage                       |
| <b>4</b> Indicator light             | <b>12</b> Bracket light source        |
| <b>5</b> Charging port               | <b>13</b> Stand base                  |
| <b>6</b> Data transmission interface | <b>14</b> Bracket LED adjustment dial |
| <b>7</b> Focus adjustment roller     | <b>15</b> Bracket power interface     |
| <b>8</b> Detachable lens             |                                       |

## STEPS FOR USAGE

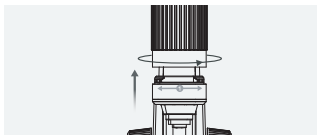
### (1) Lens installation

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, when you need to see more details than what you can see with No. 1 lens, or when viewing specimen samples (such as plant cell slides) When, you can use it.

2. Insert the lens into the microscope barrel and rotate it to the right. As follows.



To remove or replace the lens, rotate the lens to the left, and then pull the lens downward.

## (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 product.

#### b. Android :

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



Wifi Check

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

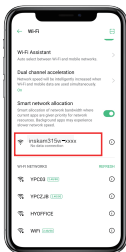


Wifi Check

## 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

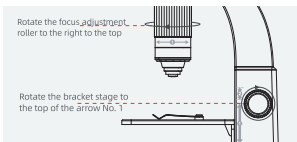


Open the WiFi setting area in your mobile phone settings, find the WiFi hotspot named inskam315w-xxxx (without password), click connect, after the connection is successful, return to the software, you can use the device (the indicator light is always on when the device is successfully connected) ).

## 4. Quick focus

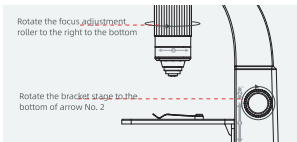
### Quick focus of lens 1

(Top light source is recommended)



### Quick focus of lens 2

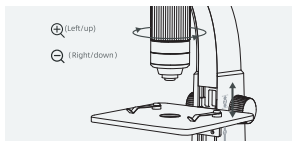
(It is recommended to use bracket light source)



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.

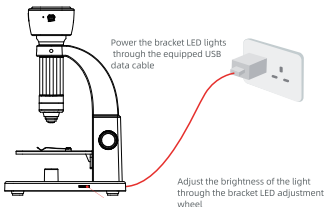
## 5. Precise focus

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 drum 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 light source of the stand, and select the 5V/1A adapter (not equipped with this device) to connect the charging cable to power the stand.



## 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 )

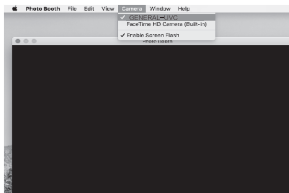
#### 1. For Macbook (Mac OSX 10.6+)

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.





## ( 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:

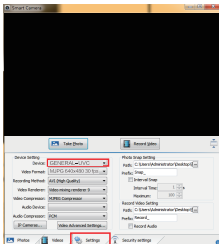
<http://www.inskam.com/download/camera.zip>

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.

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 5V/1A power adapter to charge the device. When the battery is charging, the device working indicator will turn red. After the battery is fully charged, the working indicator will turn 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 charger 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-55mm   |
| Dynamic frame number     | 20-30f/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 8.0 or above<br>Windows XP, Vista, Win7/8/10,<br>Mac 10.8 or above    |
| Power supply             | 18650 lithium battery 3.7V/1800mAh<br>Working time: 5 hours; Charging time:<br>3 hours |

# TROUBLESHOOTING

| Problem   | Solution   |
|---|--|
| Device cannot be turned on  | <ol style="list-style-type: none"> <li>1. Is the battery charged?</li> <li>2. Is power connected</li> <li>3. Is it charged for more than 1 hour when there is no electricity</li> </ol>  |
| No image on phone   | <ol style="list-style-type: none"> <li>1. Check the WiFi settings on the phone to confirm whether the device is successfully connected.</li> <li>2. Close the APP and reopen it.</li> <li>3. Turn off the device and turn it on again.</li> <li>4. Check if the phone allows Wifi Check to connect to wireless.</li> <li>5. Check whether the mobile phone has closed the data network.</li> </ol> |
| The image is not clear  | <ol style="list-style-type: none"> <li>1. Confirm whether the measured object is correctly positioned directly under the lens</li> <li>2. Whether the focal length has been adjusted to the best position</li> <li>3. Whether the light is used correctly</li> </ol>   |
| Dark spots appear on the image  | <ol style="list-style-type: none"> <li>1. Clean the lens lens carefully with a soft cloth</li> <li>2. Whether there is dirt on the surface of the measured object</li> <li>3. Whether the stage is dirty</li> </ol>  |
| The microscope is connected to the PC. After successfully downloading and opening the software, there is no image | <ol style="list-style-type: none"> <li>1. Reconnect the microscope and PC</li> <li>2. Connect to the USB port on the back of the host computer</li> <li>3. Whether the battery has low power alarm</li> <li>4. Is the data cable used correctly?</li> </ol>  |
| Device crashes  | <ol style="list-style-type: none"> <li>1. Press the reset hole of the host with a fine needle to restart the device</li> </ol>   |
| The battery indicator does not light red when charging  | <ol style="list-style-type: none"> <li>1. Check whether the charging head is normal</li> <li>2. Check whether the cable is normal</li> <li>3. Check if the battery is properly assembled</li> </ol>  |
| Screen image has black edges  | <ol style="list-style-type: none"> <li>1. Is the lens fixed in the middle of the bracket</li> <li>2. Whether the object being observed is placed upright</li> </ol>  |
| Camera flashback (iOS device)   | <ol style="list-style-type: none"> <li>1. Go to the "Settings" page and find "Wifi Check" in the application section at the bottom to allow "Photos" to be turned on.</li> </ol>   |

**CE FC RoHS**