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# **Micro WiFi Lab App**

## **User Manual**

**V1.1**

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## 1. Hardware requirements

Please confirm that the smart terminal device (mobile phones/ tablets) hardware must support the 5G WiFi IEEE802.11ac protocol, otherwise it will not be able to acquire the image correctly.

## 2. Operating system requirements

iOS system:

The list of iOS devices supporting 5G WiFi IEEE802.11ac is as follows:

iPhone X/ 8/ 8 Plus/7/ 7 Plus/6s/6s Plus/ 6/6 Plus

iPad Pro (12.9 inches, 2nd generation) / (12.9 inches, 1st generation) / (10.5 inches) / (9.7 inches)

iPad Air 2/iPad mini 4 and other new devices that support the 5G WiFi (11ac) protocol

Requires iOS 11.0 and later version.

Android system:

Android 5.0 and later version.

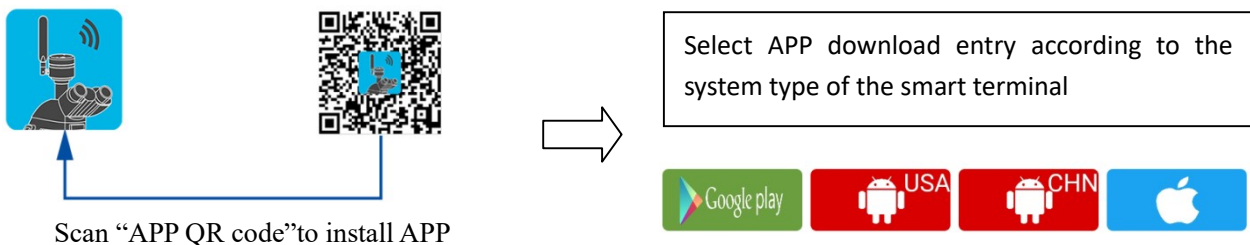
CPU: Dual core 1.7GHz and later version.

Memory RAM: 3G or more

Storage ROM: Recommended 8G or more

## 3. APP download and installation.

Use the smart terminal device to scan the QR code of the student camera and download and install [Micro WiFi Lab] as prompted.



After the APP download is complete, follow the prompts to allow installation and allow all authorizations.


Clicking "Not Allowed" will result in an inability to connect properly.

For Android users, if you can log in to the Google App Store, you can click one of the two buttons

  to download.



For Android users in mainland China, please click the button to download

iOS system users please click the button  to download

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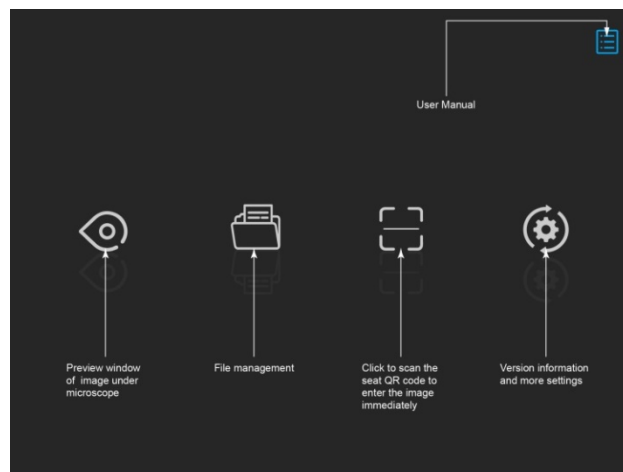
#### 4. Connect and capture images by using the APP

After the APP is installed, the camera's serial number QR code on the camera body can be scanned using the built-in QR code scanner of the APP to directly connect and acquire images.

Scan "student seat QR code" within the APP



#### 5. APP function introduction



Preview : Click here to enter the image preview window.



File folder : View photo/video files.



Scanning : Scan the camera's serial number QR code to acquire the image.  
To ensure preview speed, it is recommended that no more than 8 smart terminals connect to the same camera at the same time.



Settings : APP settings.



User instructions (top right corner) : Retrieve/hide user instructions.

## 6. Real-time preview window button introductions



Take picture



Record



Folder



This button toggles the preview mode to fast speed or high image quality. But the image taken is only the highest resolution by default.

### Annotation tools



Select



Move



Add text



Add a picture



Hand-draw



Eraser



Rotate



Delete



Line



Single-arrow



Round



Oval



Rectangular



Rounded radius



Protractor



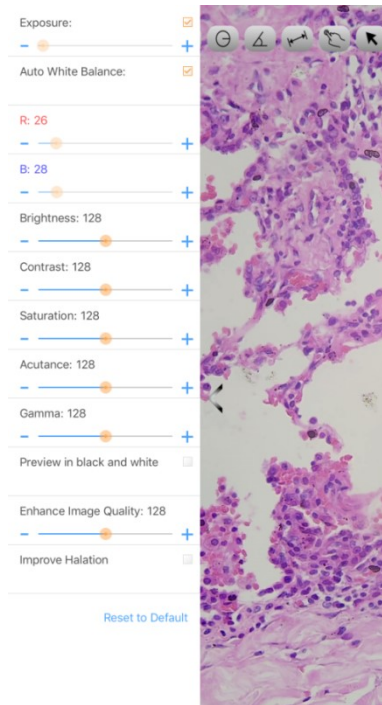
Linear measurement



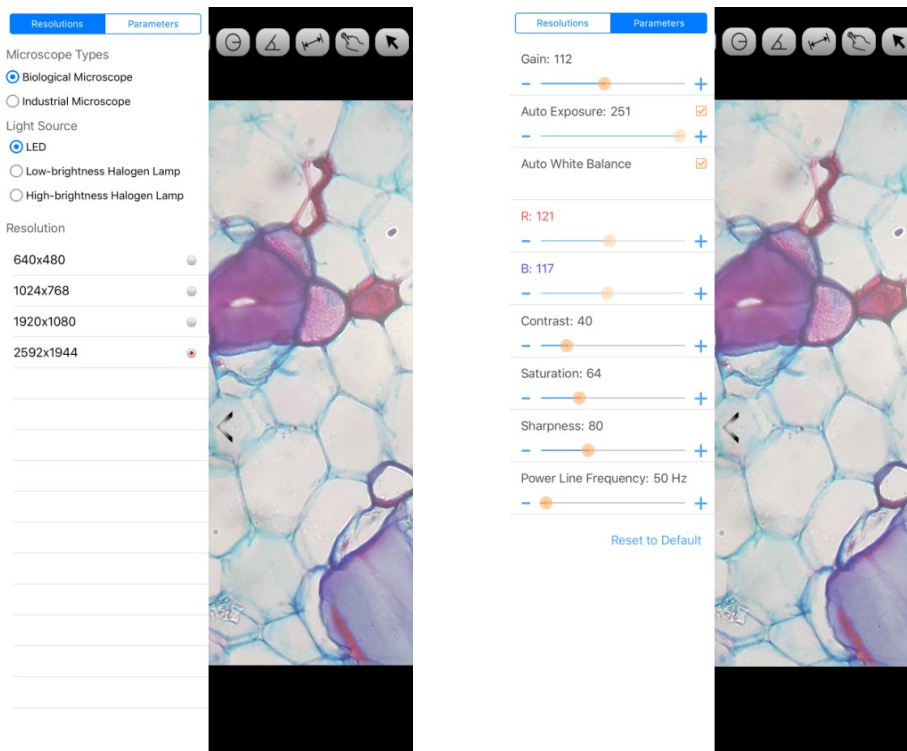
Calibration

Click the left arrow button in the preview window to bring up the image properties toolbar.

Image properties toolbar adapts to one of the following two modes depending on the product model.  
 Mode 1: Adjustable Exposure/White Balance/Brightness/Contrast/Saturation/Sharpness/Gamma/Black and White Preview (On/Off)/Overexposure Suppression/Image Enhancement/Restore Default Settings, as shown below



Mode 2: Adjustable Microscope Type / Light Source / Resolution / Image Enhancement (Displayed at 3840×2160 resolution only) Brightness/Exposure/White Balance/Contrast/Saturation/Sharpness/Power Line/Restore Default Settings, as shown below

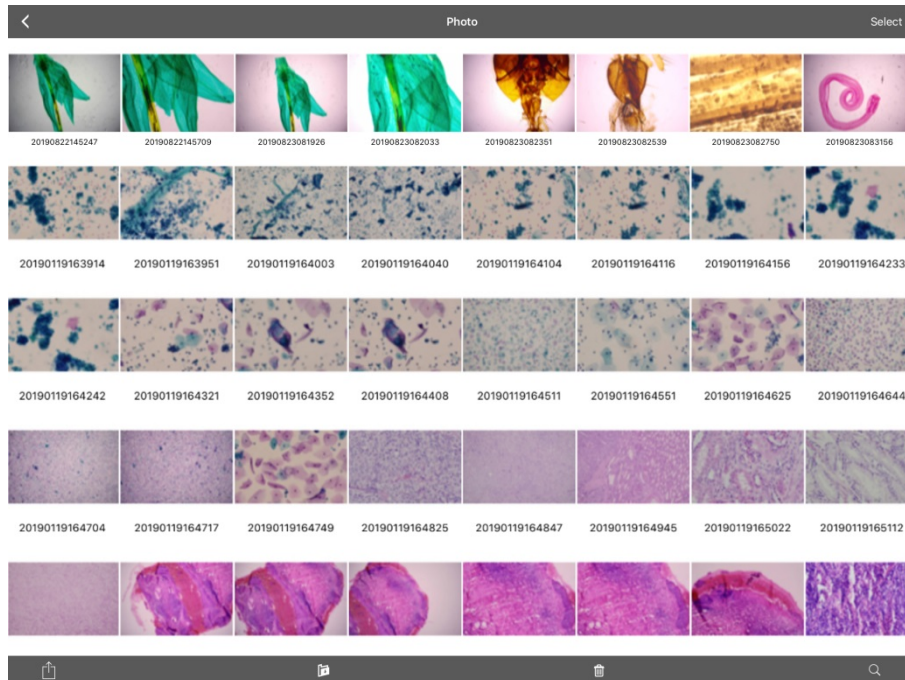


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## 7. Folder management



### 7.1 Images management



Click on "Select" in the upper right corner to make single or multiple selections and then click on the bottom four buttons:

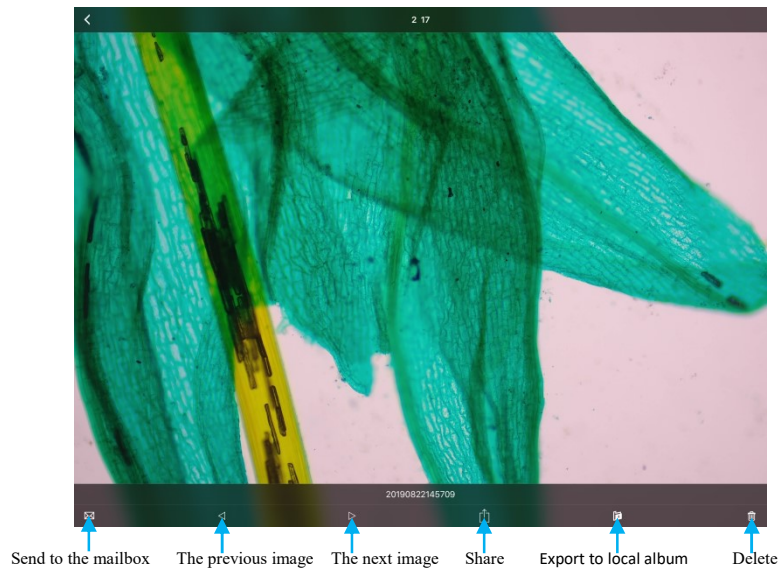
- One-click export to local album

Note: Please select Allow APP to access your album by setting your smart terminal " Privacy - Photo" , otherwise it will prompt "Export fail".

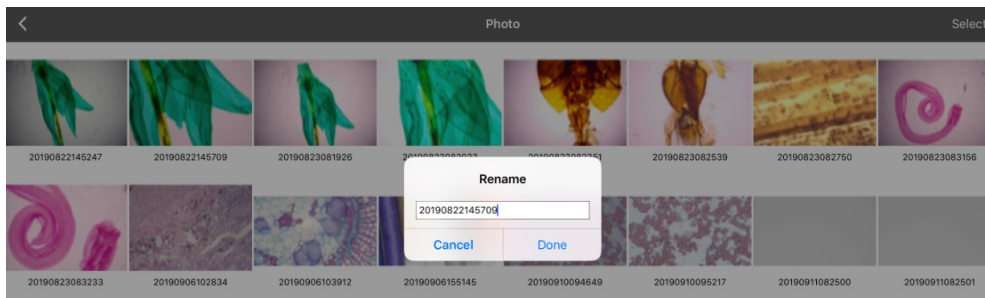
- Share to social networks
- One-click delete
- Search image file by name

Click to enter any image, the bottom button from left to right:

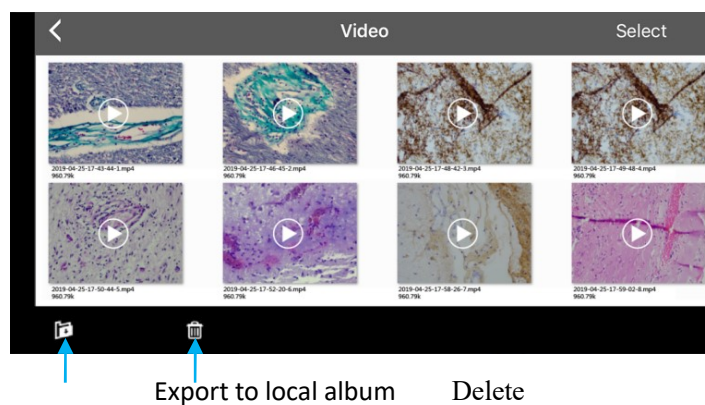
- send to the mailbox (the device needs to be installed in advance with the mailbox);
- the previous image;
- the next image;
- share a single image to the social network;
- export the image to the local Album;
- delete the picture



Click on the file name to rename.



## 7.2 Video management



Click "Select" in the top right corner and then click the button at the bottom.

- One-click export to local camera

Note: Please select Allow APP to access your album by setting your smart terminal " Privacy-Photo" otherwise it will prompt "Export fail".

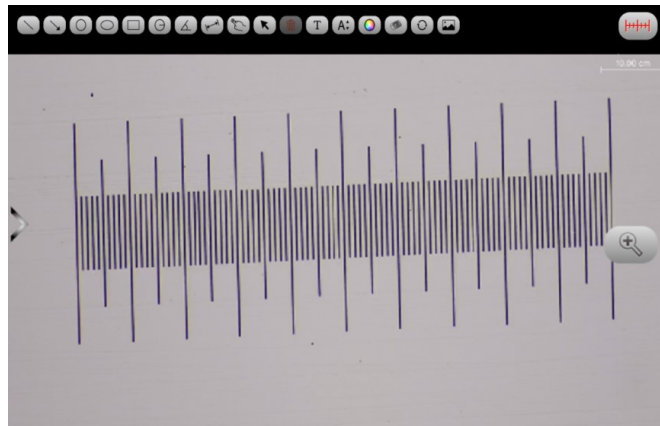
- One-click delete



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## 8. Use the APP for calibration and measurement

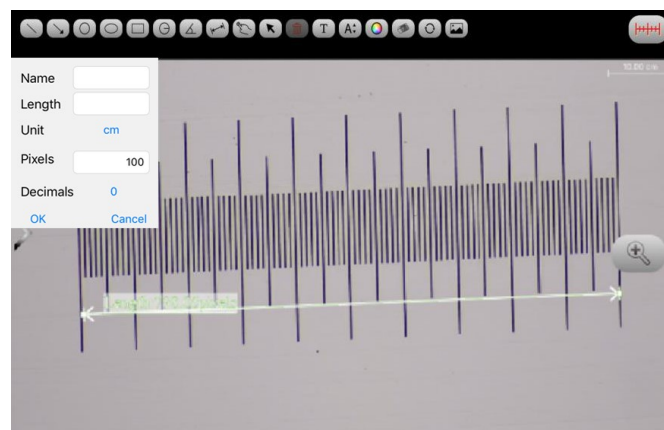
Place the calibration scale within the microscope's field of view.



Click  - and “add”

Name	<input type="text"/>
Length	<input type="text"/>
Unit	cm
Pixels	<input type="text" value="100"/>
Decimals	0
	<input type="button" value="OK"/> <input type="button" value="Cancel"/>

Enter the name, the actual length of the calibration scale, and select the unit. When you draw on the ruler, the pixels are automatically entered as shown below. Click "OK" to complete the calibration.



Select calibration value

Name	Length	Unit	Pixels	Selected
10X	10	um	601	
20X	19	inch	100	
40X	50	nm	99	
100X	78	mm	39	<input checked="" type="checkbox"/>

+ New    Edit    - Delete    Select    Exit

Then use the measurement tool at the top of the preview window to measure

