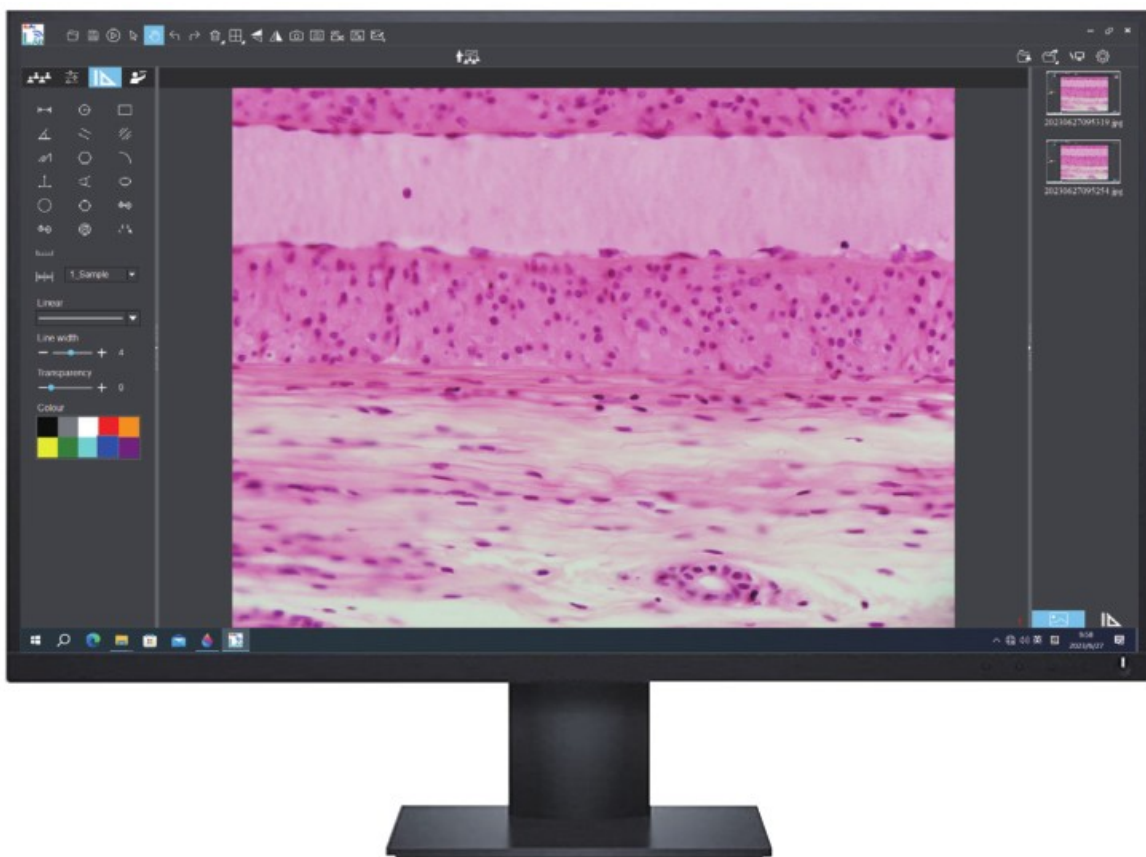




KoPa WiFi Lab for Windows Software User Manual

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Software Installation

Environmental requirements for software installation

System requirements:

CPU type: i5 10th Generation or later version;

Memory capacity $\geq 16\text{GB}$ or more;

Hard drive capacity $\geq 512\text{GB}$ or more;

System: Genuine Microsoft Windows 10 (64 bit) or later version;

Graphics card: Core display or discrete graphics card.

Note: Some functions in the software require the computer with

Microsoft Word 2003 or later version (for output measurement results to Microsoft Word function)

Microsoft Excel 2003 or later version (for output measurement results to Microsoft Excel function)

Microsoft Outlook 2003 or later version (for sending pictures via email function)

Installation steps

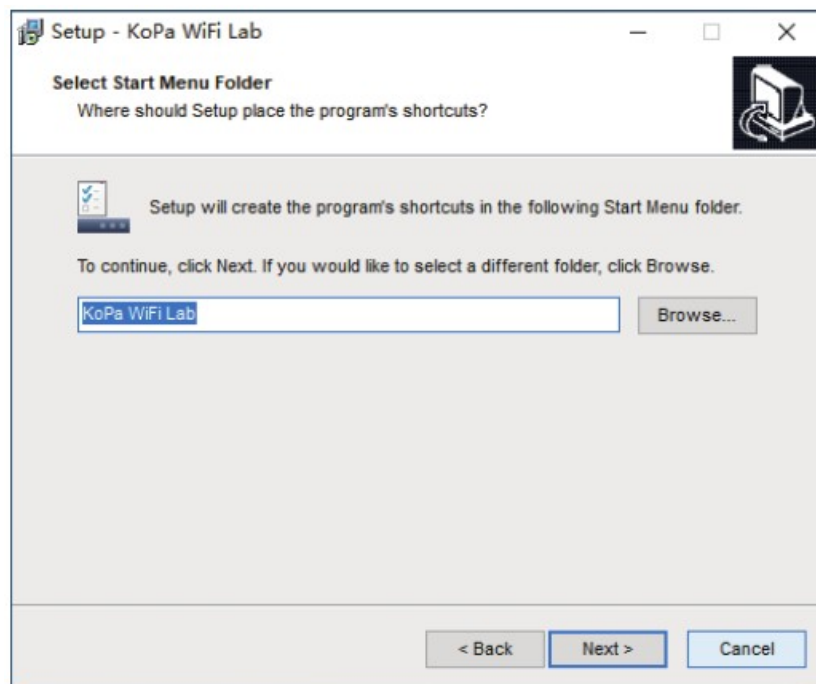
Step1. Run the file “KoPa Capture Pro Install ”. When window pops up, please select the installation guide language.

Note: The installation guide language is independent of the software interface language. If you need to change the software interface language, please select the “Language” function in the “Settings” menu to modify.



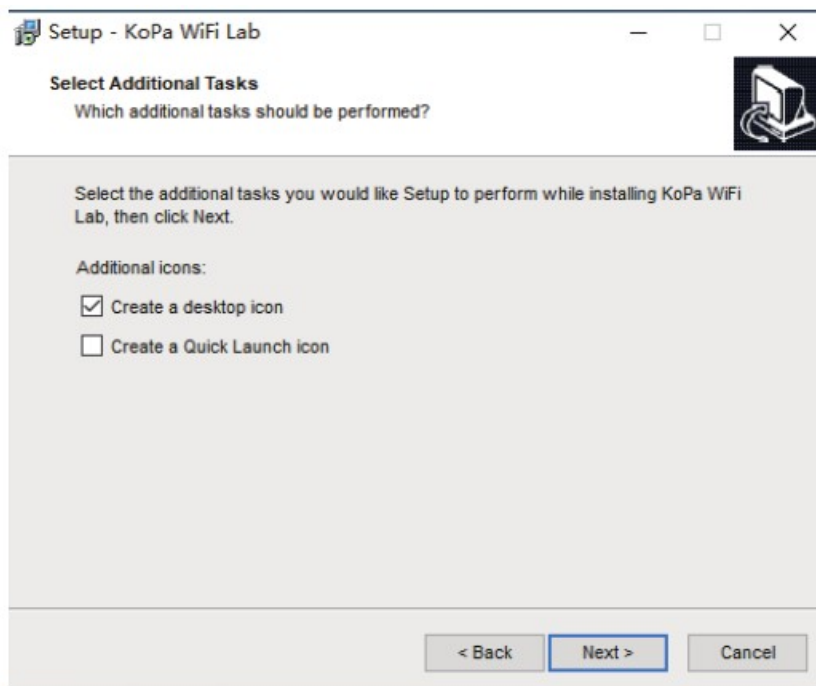
Step 2. When the window “Welcome to use KoPa Capture Pro Setup

Wizard” pops up, please click the button “  ”.

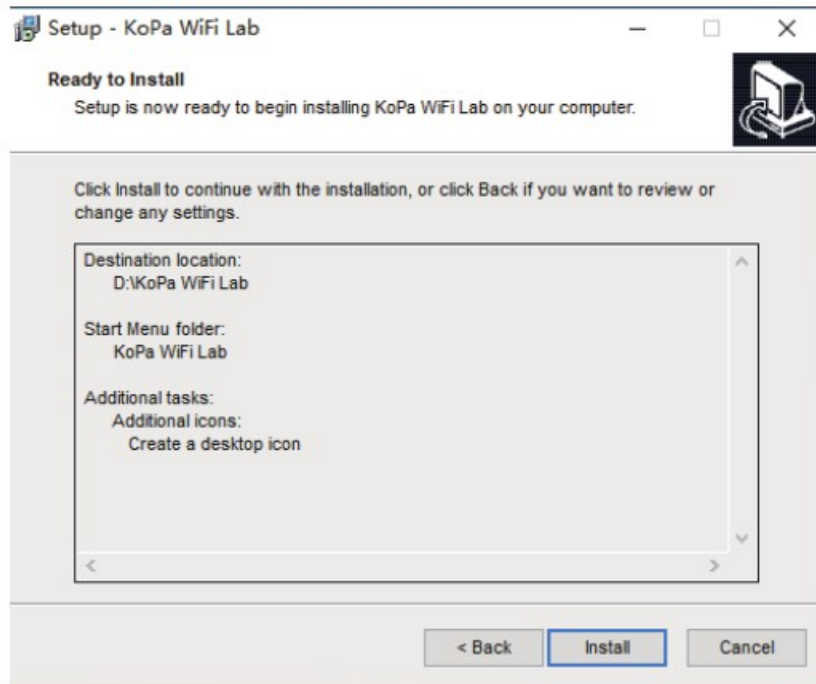


Step 3. When the window “Select Destination Location” pops up, click “Browse” to choose the file path for installation (usually default), and then click “**Next >**” to continue.

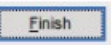
Step 4. When following window appears, select the shortcut you need, and then click the button “**Next >**”.




Step 5. Confirm information like the “Destination Location” of software installation. After confirmation, please click the button “**Install**”.



Step 6. An installation progress bar will appear during the software installation procedure. The software installation necessitates the registration of some runtime libraries, which might be intercepted by some antivirus software. If such interception pops up, please allow the procedure to continue.

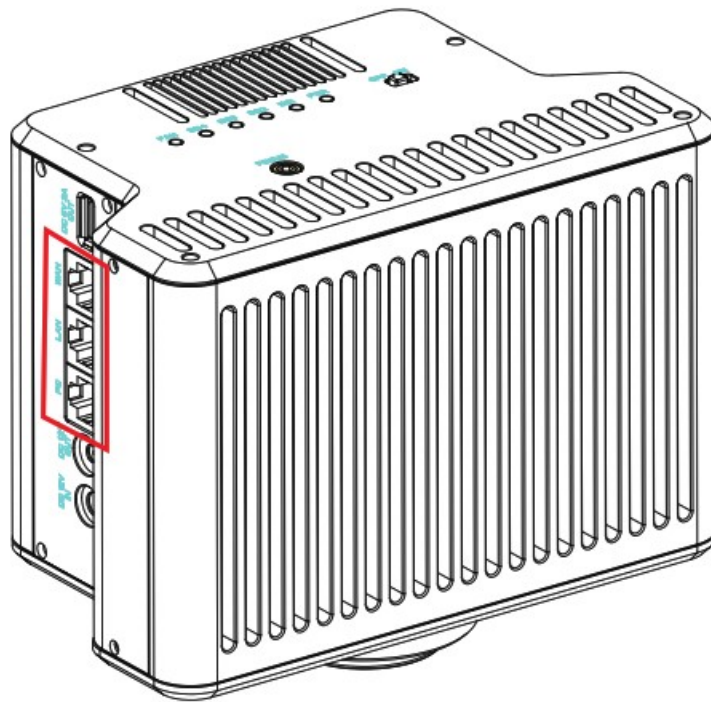
Step 7. An installation progress bar will appear during the software installation procedure. When the following window appears, the software has been installed successfully. Then click the button  to complete the

installation. After closing the window, check the icon  on your computer desktop. If you fail to find it, please find it from the path "Start"→"All programs".



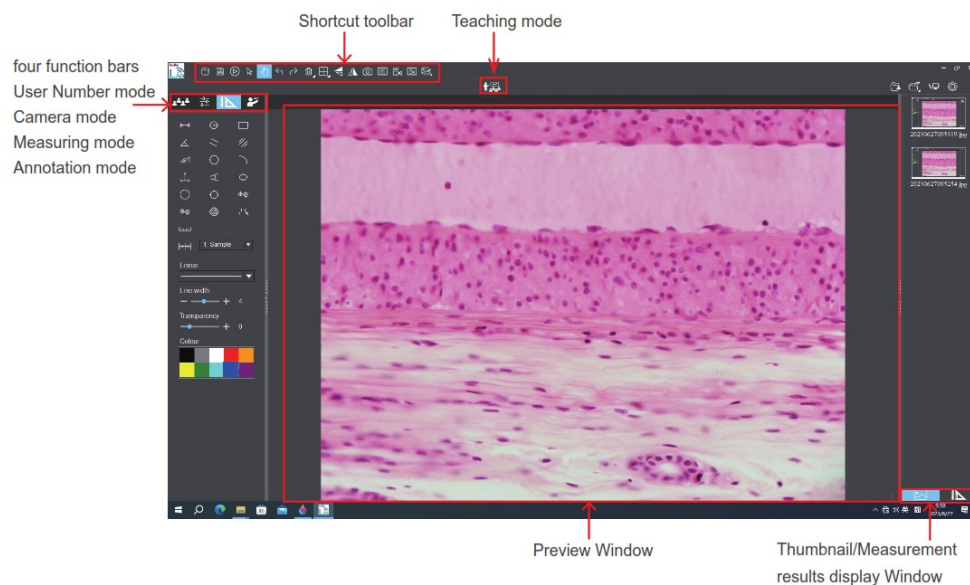
Software connection to the camera method

This software supports connecting to the camera via network cable or WiFi connection.



Software Instructions

Operation interface



Number of user connections mode

Feature Details:

Scan QR code connection and view the current number of user connections to the multi-viewing workstation.

Smart devices (mobile phone or tablet) can scan the QR code to connect to the multi-viewing workstation and observe the microscopic images in real time.







The “Number of user connections” mode on the left side of KoPa WiFi Lab allows you to view the total number of users currently connected to the multi-viewing workstation (connection number is 2 in the example image on the right). The system automatically detects the number of refreshed users online, join or leave midway and then return can be viewed in real time.




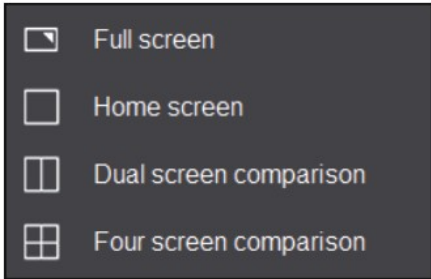







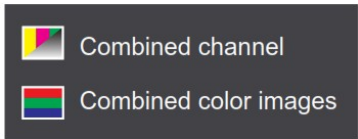


Shortcut Toolbar

Shortcut tools

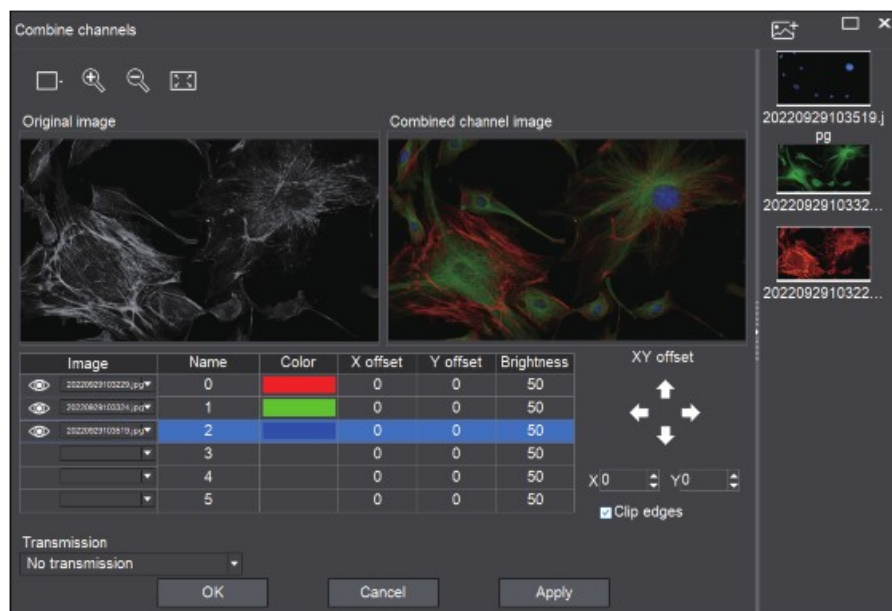








	Open	Retrieve images from the local disk to the software.
	Save	After annotating the picture, adding text, etc., click the “Save” button to save the current annotation, text, etc
	Preview	If a still image is retrieved from the window, clicking this button will return the window to the preview dynamic picture.
	Select object	Select “objects” such as annotations, text, measurements, etc. for the next step, such as moving, deleting, etc. Support single selection or select them by drawing a big box around them.
	Drag	Use the mouse to drag the still image.
	Undo	Undoing the last operation on an “object”.

	Redo	Redoing the last operation on an “object”.
	Delete	Delete or erase the selected “object” with a single click.
	Compare with multiple windows	 <p>Options of Full screen / Home screen / Dual screen comparison / Four screen comparison.</p>
	Flip	Flip the image on the currently selected screen.
	Mirror	Mirror the image on the currently selected screen.
	Snapshot	Snapshot the image on the currently selected screen.
	Screen capture	Screen capture on the entire computer desktop.
	Record	Record on the currently selected screen.
	Screen record	Screen record on the entire computer desktop.
	Image processing	 <p>Assign fluorescence channels to selected images. Composite overlay of selected color fluorescence images.</p>

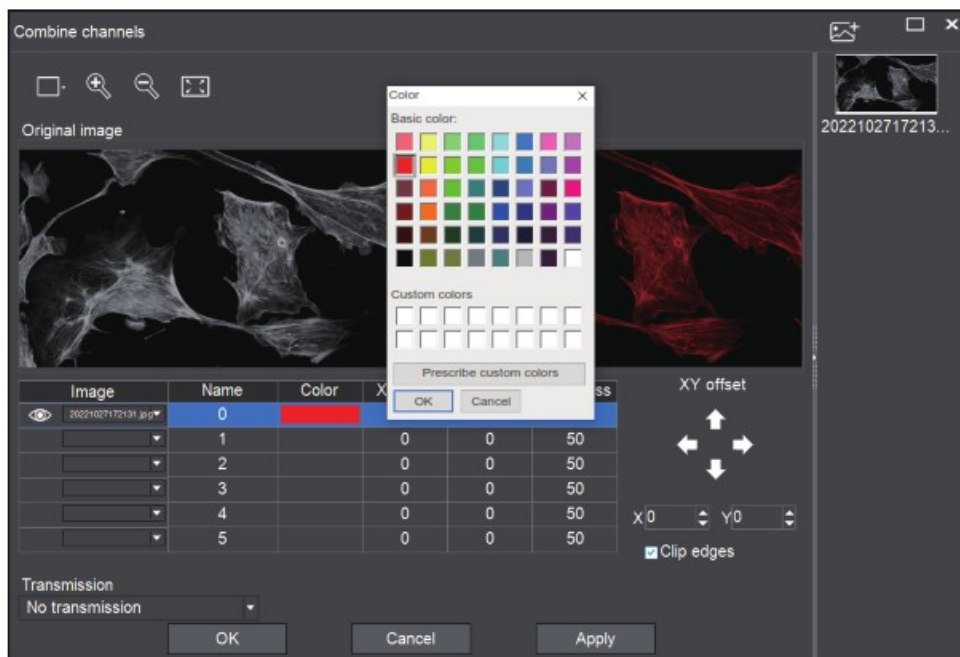
Combined channel

Fluorescent channels can be assigned quickly

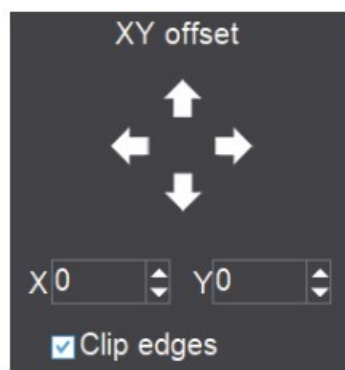


	Live image taking
	Preview window setting: double window to display original image and combined channel image separately, single window to display combined channel image only
	Image Zoom
	Image reduction
	Adapts to screen size
	Import images

Fluorescence channels can be specified for imported images (as shown in the figure below)

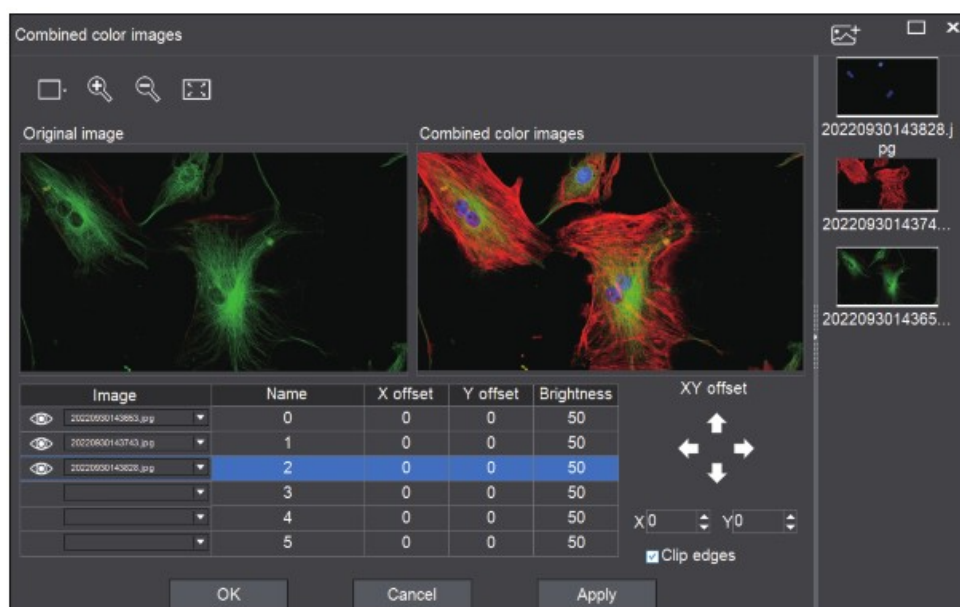


Note: Please import images with the same resolution, otherwise the image import will fail.
Allows direct input of X, Y, and brightness values for fine adjustment.









Combined color images

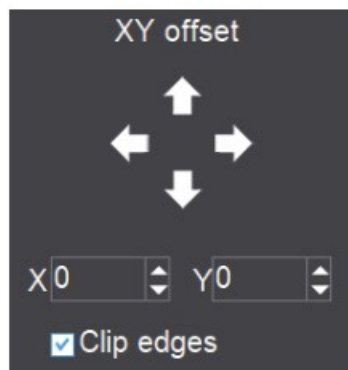
Color fluorescent images can be quickly combined.



Note: Please import images with the same resolution, otherwise the image import will fail.

Allows direct input of X, Y, and brightness values for fine adjustment.

	Live image taking
	Preview window setting: double window to display original image and combined channel image separately, single window to display combined channel image only
	Image Zoom
	Image reduction
	Adapts to screen size
	Import images


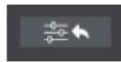
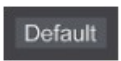



Camera property control



Adjust the corresponding image property parameters as needed to achieve the desired image effect.

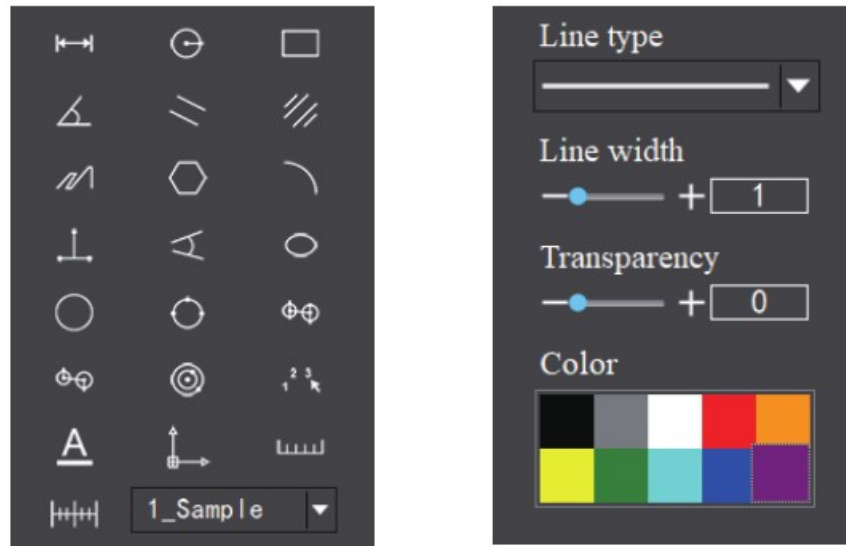


Staining tape	Users can select different exclusive types of stained pathology sections to obtain matching image effects and more accurate color reproduction. BF type 1: for bright-field, red or gold-based sections. BF type 2: for bright-field, cyan-dominated sections. FL type: for fluorescence observation.
Brightness	Manually drag the adjustment bar to adjust the image brightness.
Exposure	When checked, the camera will automatically expose according to the environment used. When unchecked, manual exposure can be performed through the adjustment bar, supporting direct input of values in the box.
White Balance	Manual white balance adjustment can be made through the adjustment bar, supporting direct input of values in the box. Click on "R" will restore the default value of the R channel alone. Click on "B" will restore the default value of the B channel alone.
Gain	Manually drag the adjustment bar to adjust the image gain. Support for entering values directly in the box. Click on "Gain" will restore the default value of gain alone.
Contrast	Manually drag the adjustment bar to adjust the image contrast. Support for entering values directly in the box. Click on "Contrast" will restore the default value of contrast alone.
Hue	Manually drag the adjustment bar to adjust the image hue. Support for entering values directly in the box. Click on "Hue" will restore the default value of hue alone.
Saturation	Manually drag the adjustment bar to adjust the image saturation. Support for entering values directly in the box. Click on "Saturation" will restore the default value of saturation alone.
Sharpness	Manually drag the adjustment bar to adjust the image sharpness. Support for entering values directly in the box. Click on "Sharpness" will restore the default value of sharpness alone.
Gamma	Manually drag the adjustment bar to adjust the image gamma. Support for entering values directly in the box. Click on "Gamma" will restore the default value of gamma alone.
Export image properties	 Exporting image properties to local disk.
Import image properties	 Import image properties from local disk.
Restore Default values	 Restore all image property parameters to their default values.
Preview resolution	 Any of the resolutions in the drop-down list can be set for preview.



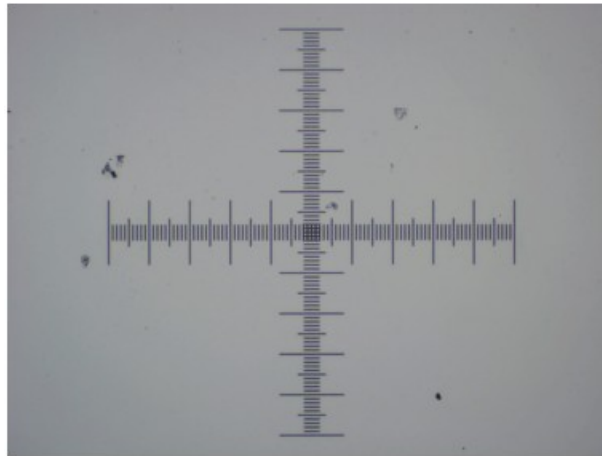
Measuring tools


Provides calibration function as well as measurement function for dynamic or still image in the preview window.



Calibration

Step 1: Please place the micrometer under the microscope, the example below uses a micrometer with 1DV= 0.01mm.



Step 2: Click on “” to bring up the calibration table as shown below.

name	length	Reference(Pixel)	unit	Note
Sample	100	200	μm	

name

Actual length

Reference(Pixel)

Unit

μm

Decimal Places

3

Additional remark

Apply

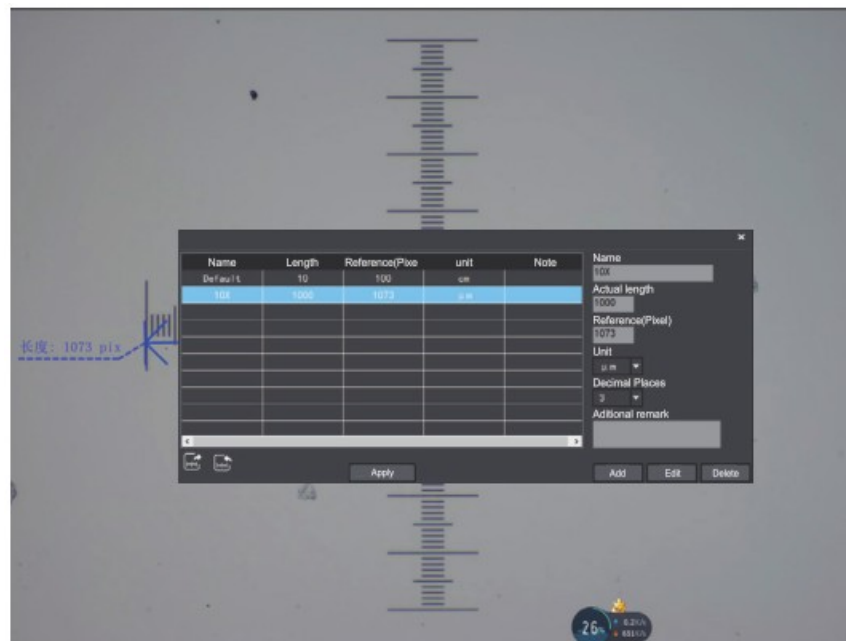
Add

Edit

Delete

Step 3: When using the mouse to draw a straight line on the micrometer image and setting the scale length, selecting a longer scale length will give more accurate results. For example, selecting 10 small scale lengths will give you more accuracy than selecting only 1 scale length.

After releasing the mouse, the image value of the line drawn with the mouse will be automatically updated in the “Benchmark” of the calibration table, as shown in the following figure.



Step 4: Enter a name in the calibration table, such as 10X.

In the calibration table, enter the actual length that just drawn on the micrometer, for example, the sample figure is drawn 100 DV, that is, 0.01mm, or 1000μm, then enter the “actual length” box to fill in the specified 1000, “unit” select “μm”. Then click “Add” to add this calibration value to the calibration table to be used. Add the calibration value for other objectives of different magnifications in this way.

Name
10X

Actual length
1000

Reference(Pixel)
1073

Unit
μm

Decimal Places
3

Additional remark

Add Edit Delete

Notes.

- ① “Add”: The information in the right box will be added to the list on the left.
- ② “Edit”: The calibration value selected in the left list will be modified.
- ③ “Delete”: The calibration value selected in the left list will be deleted.
- ④ “Apply”: The calibration value selected in the left list will be called.

Select measurement tool for measurement










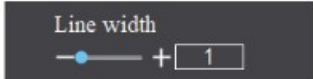
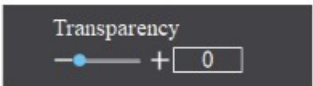

Firstly, select the calibration value according to the actual objective used in the calibration table and click on “Apply”. The following figure shows.

name	length	Reference(Pixel)	unit	Note
Sample	100	200	μm	

name
Actual length
Reference(Pixel)
Unit
Decimal Places
Additional remark

Then select the measurement tools to measurement as follows:

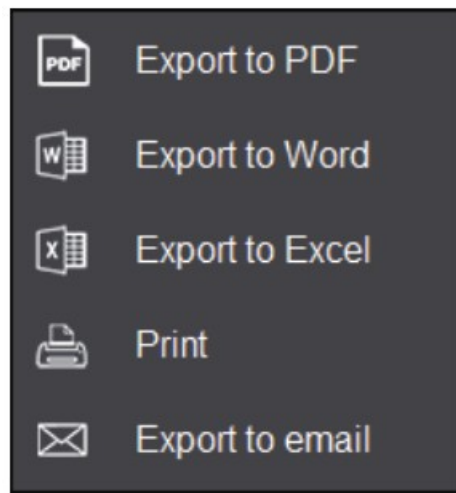
	Straight line measurement
	Circular measurement
	Rectangular measurement
	Angle measurement
	Parallel line distance
	Double parallel line center distance
	Folding line measurement
	Polygon measurement
	Curvature measurement
	Three-point vertical line measurement
	Four-point angle measurement
	Ellipse measurement
	Drawing a circle with radius

	Three point drawing circle measurement
	Concentric circle measurement
	Concentric radius circle distance drawing circle measurement
	Circle measurement
	Manual calculation
	Set the font
	Scale lines
	Scale bar
	Select line type
	Set the measurement tool line width
	Set the transparency of the measurement tool
	Set the measurement tool color

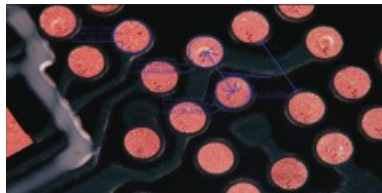
The results of each measurement will be displayed on the right side of the software. The user can export the measurement results.



Click the export tool in the upper right display bar to export data and images to PDF, Word, Excel, printer and mail (Outlook only). Export to PDF, printer and mail functions are only available for still images. Select Export to Word, as shown below: Enter file name, select path, and click “Save”. The exported documents are as follows:









Serial No	Measure item	Measured value
1	Circular measurement	Radius=21.175 um Perimeter=133.046 um Area=1408.611 um ²
2	Concentric circle measurement	Radius1=19.674 um Perimeter1=123.616 um Areal=1216.025 um ² Length=60.056 urn Radius2=19.507 urn Perimeter2=122.569 um Area2=1195.504 um ²
3	Linear distance measurement	Length=76.050 urn









Drawing tools











Line type

▼

Line width

+

1

Transparency

+

0

Color

	pencil
	straight line
	highlighter
	single arrow straight line
	rectangle
	oval
	concentric circle
	isosceles triangle
	set font
	insert text
	line type
	set line width
	set transparency
	color

Lecturing function



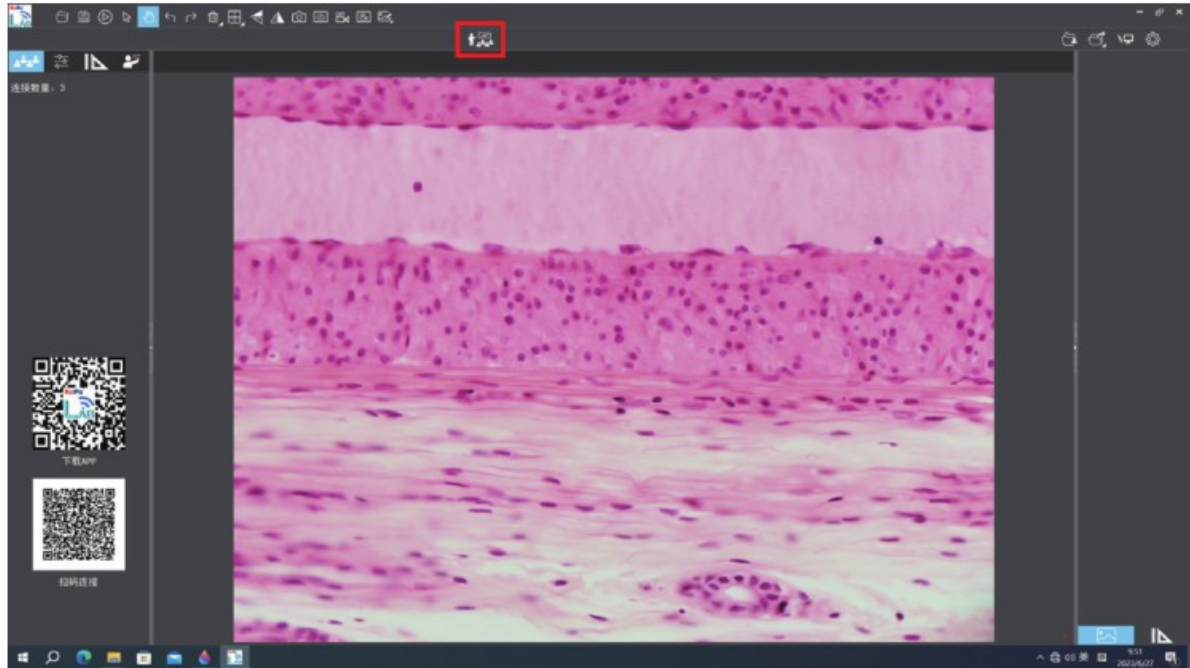
Lecturing function

Brief description of functions:

Synchronized broadcasting computer screen or operation process to the smart devices (mobile phone or tablet);

Real-time display of microscopic images and computer operation screens at the smart devices (mobile phone or tablet);

Displaying lesson plans, PPT, videos, etc., in real time at the smart devices (mobile phone or tablet);



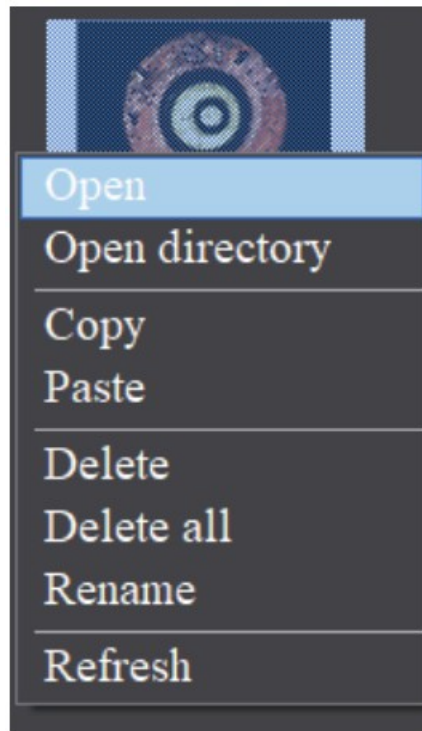
Electronic white board function



Click the “Whiteboard” button in the upper right corner of the software to show the teacher’s desktop to the smart devices (mobile phone or tablet) and to comment on the desktop and other courseware. The “Whiteboard” tools from left to right are: Pen, Arrow, Enter Text, Undo, Redo, Eraser, Delete Object, Line Width, Line Type, Color, Macro Photo, Macro Video, Mouse Penetration (this tool allows you to call the file data in the computer disk), and return to the software interface, which helps you to annotate the desktop, video, etc. and comment on the desktop in the lecture mode. It helps to annotate and push the displayed courseware, videos, etc. to the smart devices (mobile phone or tablet) in real time.

Thumbnail toolbar

Right-clicking on a thumbnail will display the action menu as shown in the figure below.



Open: Open the image in the software default way.

Open directory: Open the directory where the selected image is located.

Copy: Copy the currently selected image.

Paste: Paste the image that has been copied. (Note: Paste can only be done within the thumbnail toolbar).

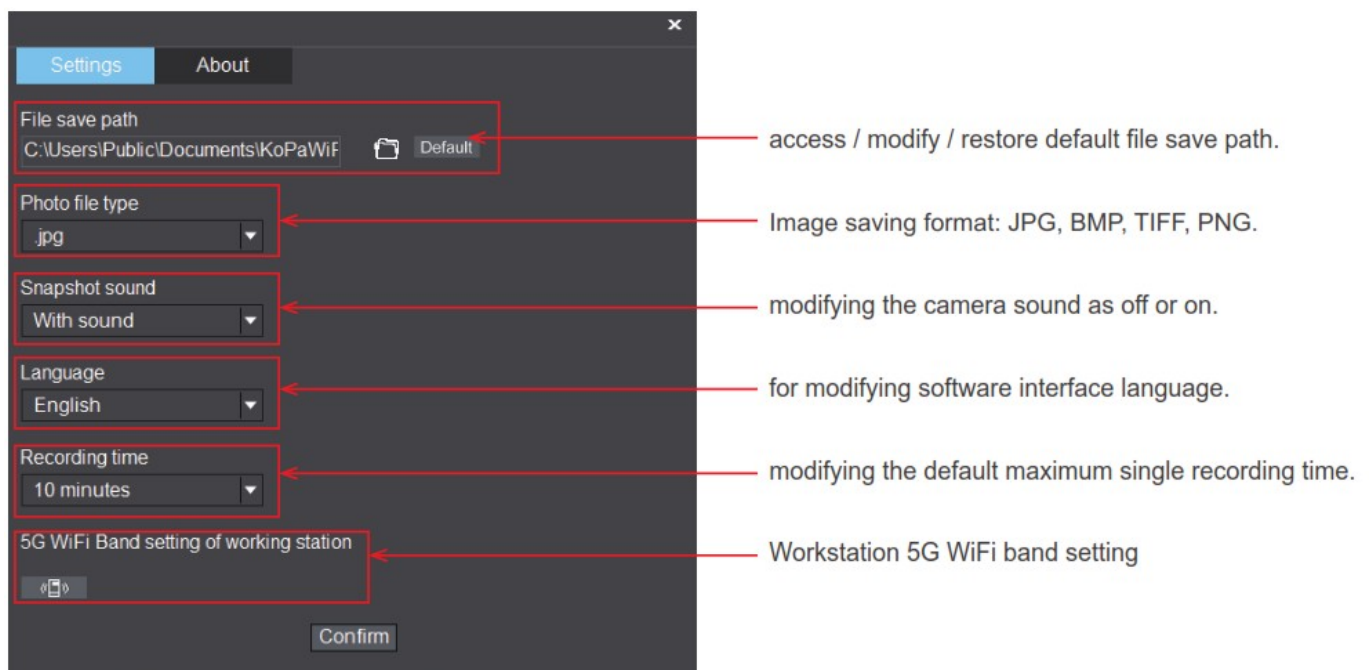
Delete: Permanently delete the selected image and permanently delete the source file.

One-click deletion: permanently delete all thumbnails and permanently delete the source files.


Rename: Rename the selected image.

Refresh: Refresh the current image thumbnail area.

Software setup



Documents / Resources

	<p>KoPa WiFi Lab for Windows Software [pdf] User Manual</p> <p>WiFi Lab for Windows Software, WiFi Lab, for Windows Software, Windows Software, Software</p>
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References

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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