

Micro Capture Software

User Manual

Ver9.8

CONTENT

CHAPTER 1: SOFTWARE INSTALLATION	1 -
1.1 ENVIRONMENTAL REQUIREMENTS FOR SOFTWARE INSTALLATION	- 1 -
1.2. INSTALLATION	- 1 -
CHAPTER 2: SOFTWARE INSTRUCTIONS	5 -
2.1 SOFTWARE OPERATION INTERFACE AND INSTRUCTION	- 5 -
2.2 MANUAL PANEL	- 6 -
CHAPTER 3: FUNCTION INTRODUCTION	7 -
3.1 SHORTCUT TOOLBAR	- 7 -
3.2 WORKING MODE	- 9 -
3.3 CAMERA CONTROL	- 10 -
3.4 MEASURING TOOL	- 14 -
3.5 DRAWING TOOLS	- 16 -
3.6 DRAWING TOOLS	- 17 -
3.7 ERASER	- 17 -
3.8 IMAGE FILTERS	- 18 -
3.9 CALIBRATION AND MEASUREMENT	- 18 -
3.10 THUMBNAIL DISPLAY AREA.....	- 22 -

Chapter 1: Software Installation

1.1 Environmental Requirements for Software Installation

Compatible system: **Microsoft® Windows® 7 (32 & 64 bit) Windows® 10(64 bit)**

Note: Partial function of this software relies on the installation of the following software:

Microsoft Word 2003 or later version (for exporting report to WORD)

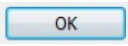
Microsoft Excel 2003 or later version (for exporting report to EXCEL)

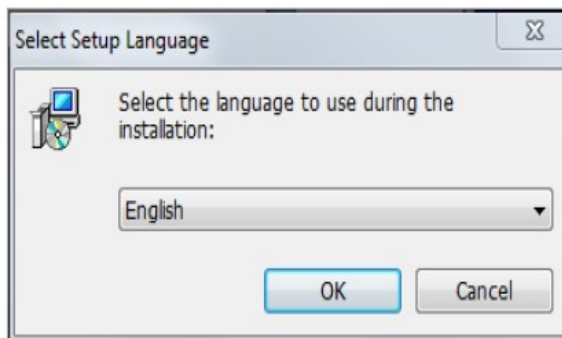
Microsoft Outlook 2003 or later version (for exporting images to email)

Internet Explorer7.0 or version above (for wireless connection to PC)

1.2. Installation

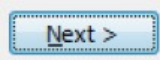
Step 1. Activate the computer and insert the installation disk into the DVD or download software from specified URL.

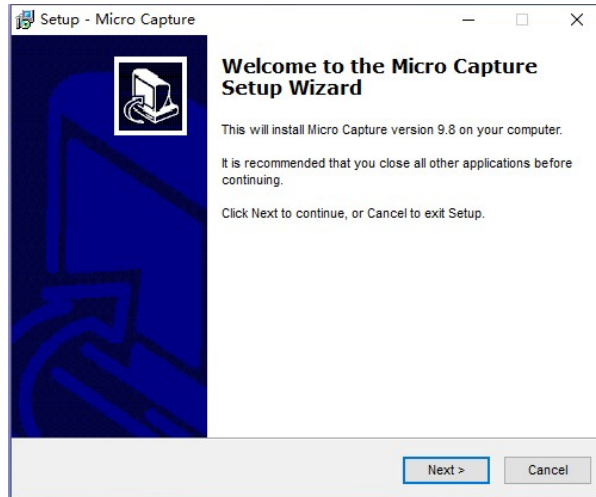
Step2. Double click the file “Micro Capture Install” under the disk catalogue. When the following window pops up, please select the installation guide language and press the button “  ”.

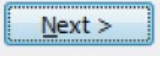


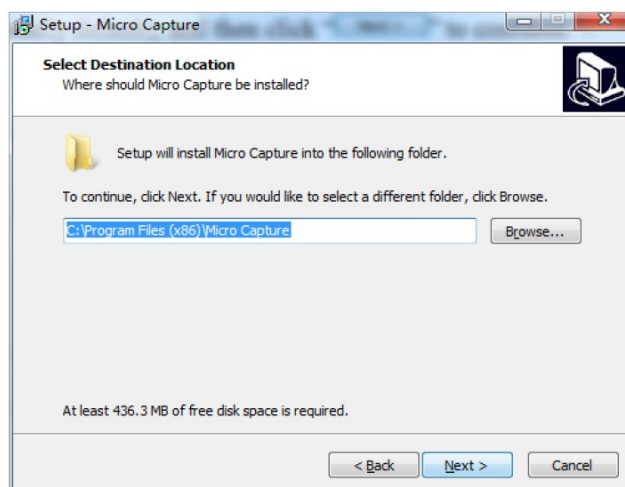
Note: The installation guide language is independent of the software interface language. If you need to change the software interface language, please refer to 2.2 - Modification of Language Function.

Step 3. When the window “Welcome to use Micro Capture Installation Guide” pops up, please click the

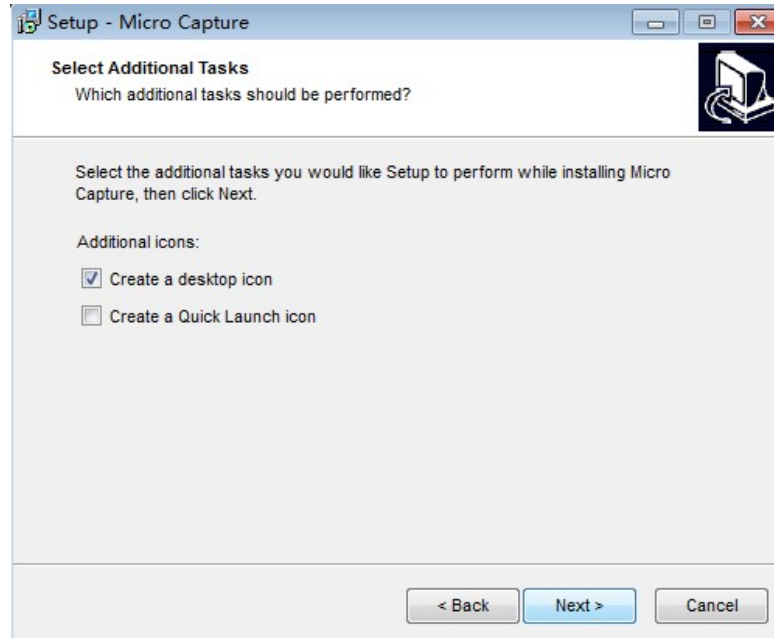
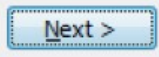
button “  ”.



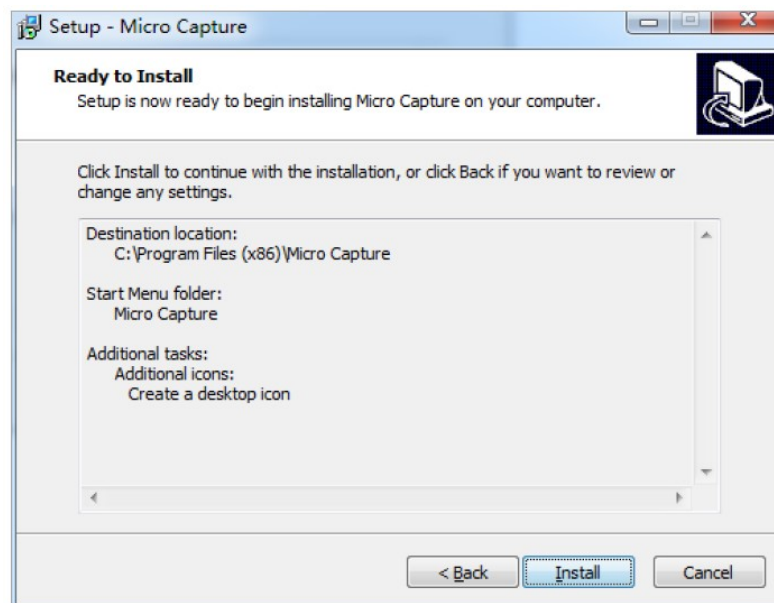
Step 4. When the window “Please select the target location” pops up, click “Browse” to choose the file path for installation (usually default), and then click “  ” to continue.



Step 5. When following window appears, select the shortcut you need, and then click the button



Step 6. Confirm information like “the target location” of software installation. After confirmation, please



Step 7. 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 8. 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

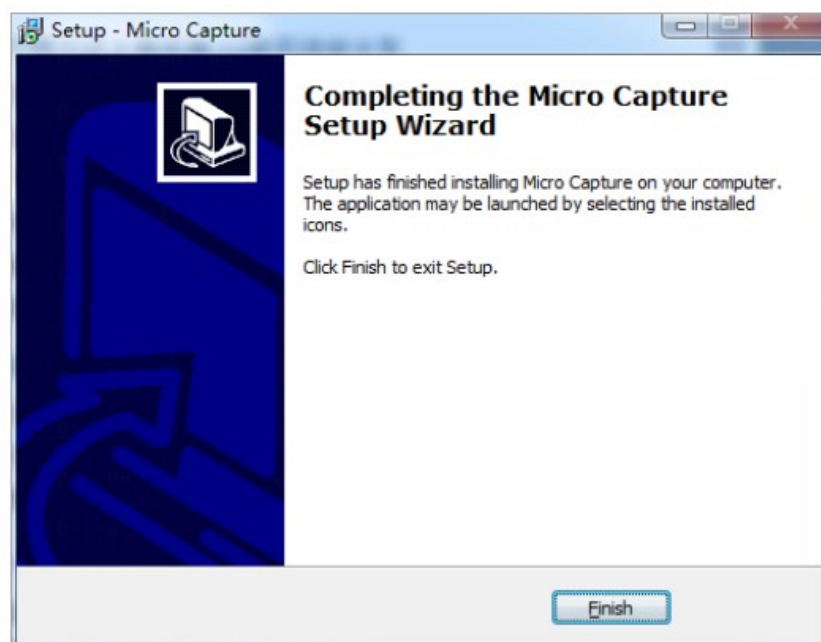


to complete the installation. After closing the window, check the icon



on your

desk. If you fail to find it, please find it from the path “Start”→“All programs”.

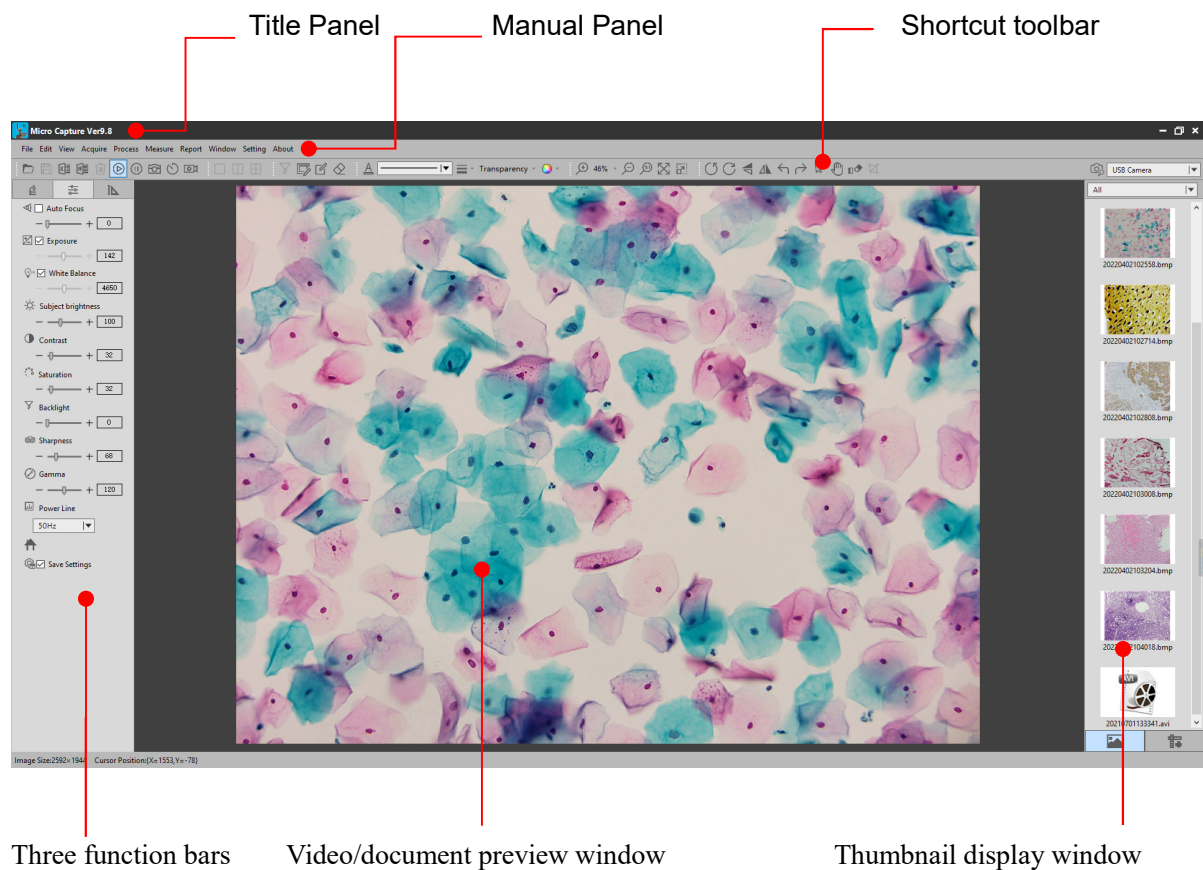


Note:

Wired connection: just connect the camera to USB port of PC.

Chapter 2: Software Instructions

2.1 Software Operation Interface and Instruction

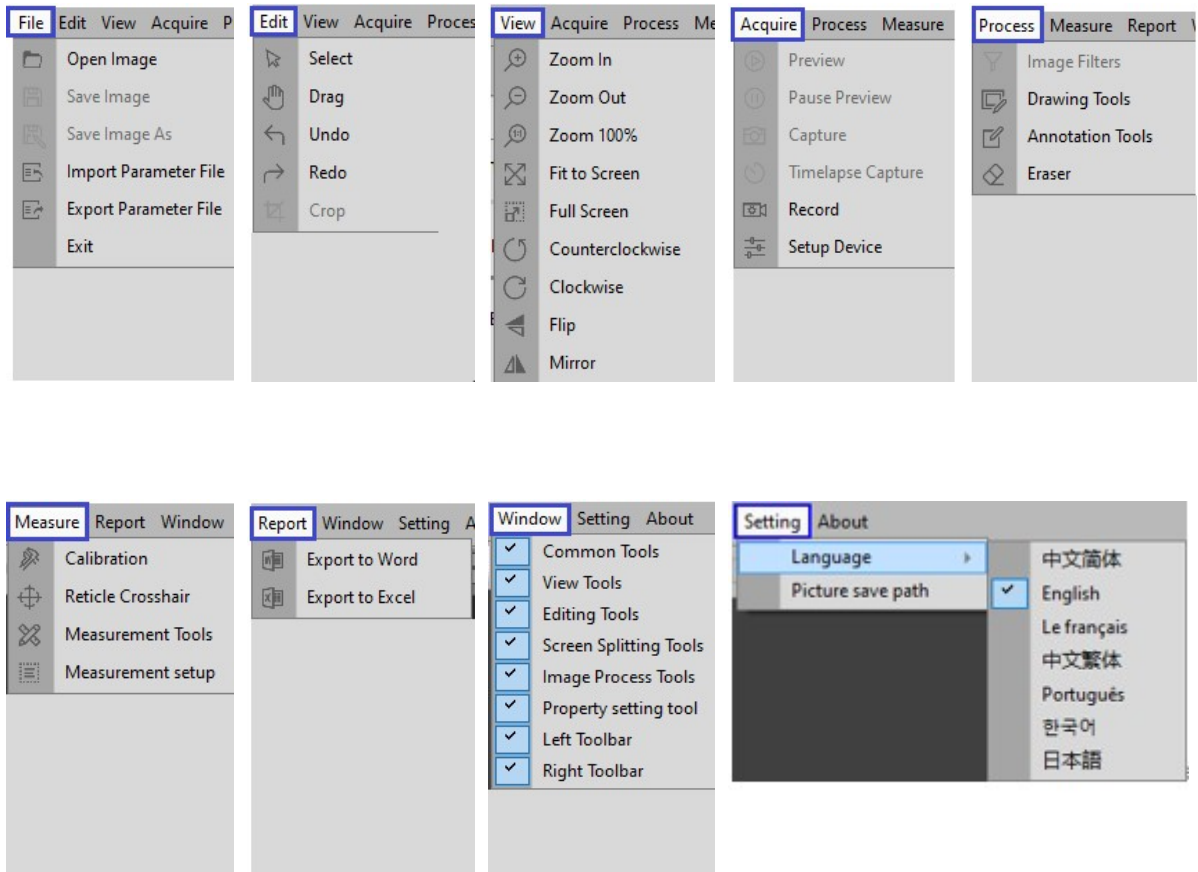


- ◆ Working mode
- ◆ Camera control
- ◆ Measuring tool

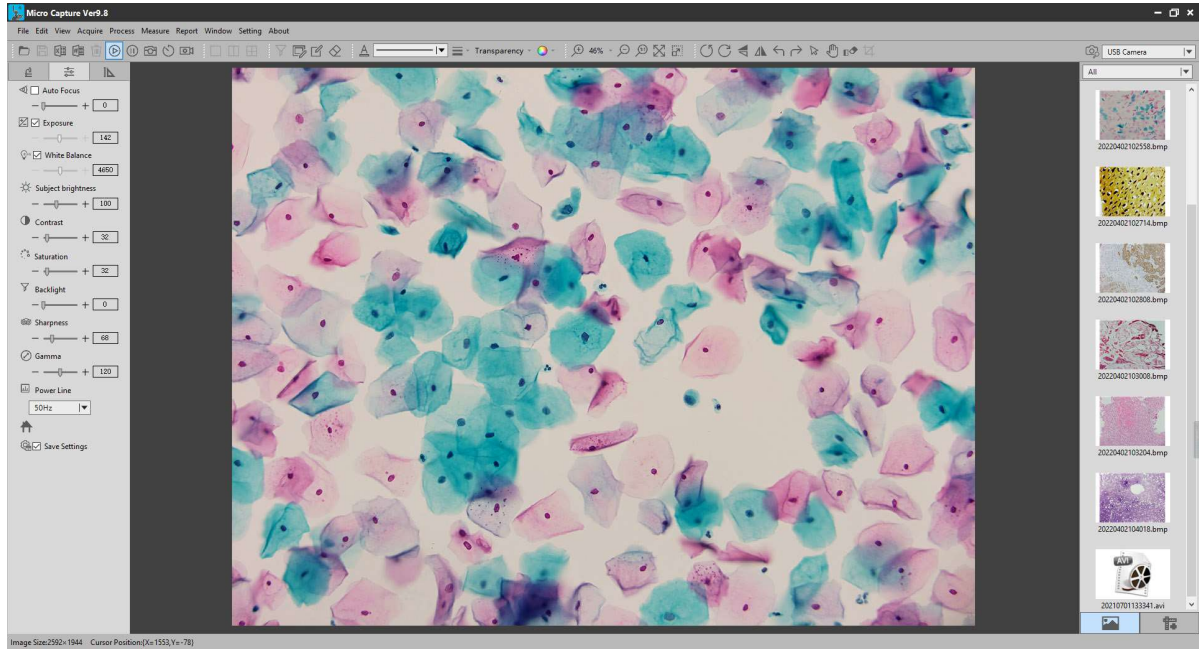
2.2 Manual Panel

File Edit View Acquire Process Measure Report Window Setting

The menu Functions are as follows:


































Chapter 3: Function Introduction









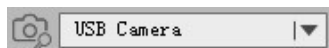
3.1 Shortcut toolbar



- | | | | |
|---|---------------------|---|--------------------------------------|
|  | Open Image | : | Open the image from disk. |
|  | Save the image | : | Save the image to disk. |
|  | Export to Excel | : | Export the images to the Excel |
|  | Export to Word | : | Export the image to Word |
|  | Delete the image | : | Deletes the current image from disk. |
|  | Preview | : | Live-view from camera |
|  | Pause | : | Pause live-view from camera |
|  | Take picture | : | Capture image to disk |
|  | Time-lapse snapshot | : | Time-lapse snapshot to disk |
|  | Record | : | Record to disk |

	One screen	:	One screen mode
	Two screens	:	Two screens mode
	Four screens	:	Four screens mode
	Special effects	:	Special effects tools
	Drawing tools	:	Drawing tools
	Annotation tools	:	Annotation tools
	Erase tools	:	Erase tools
	Font Settings	:	Set font, size, effect.
	Line types	:	Sets the drawing line shape. There are five line types to choose from.
	Line width	:	Sets the pixel value of the width of the drawing line, ranging from 1 to 10 pixels.
	Transparency	:	Sets the transparency of the drawn line.
	Color	:	Sets the color of the drawn line.
			
	Zoom in	:	Increase magnification
	Zoom out	:	Decrease magnification
	Actual size	:	Display the current image at its actual size
	Adapt to screen size	:	Display the current image adapt to to screen size
	Full screen	:	Display the current image at full screen
	Counterclockwise rotation	:	Rotate the current image 90 degrees counterclockwise.
	Clockwise rotation	:	Rotate the current image 90 degrees clockwise
	Flip	:	Flip the current image
	Mirror	:	Mirror the current image

-  Undo : Undo the last operation, valid only for the edit operation.
-  Redo : Redo the last action, valid only for editing
-  Select the object : Select an object on the screen, only valid for editing objects on the screen
-  Drag : Drag video screen in preview area
-  Delete the object : Delete the selected object
-  Cut object : Cut the selected object

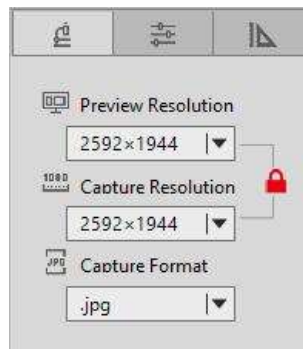


: This item displays devices currently in use. When the software searches for multiple video devices, multiple device names can be displayed, and devices can be selected, as shown in the

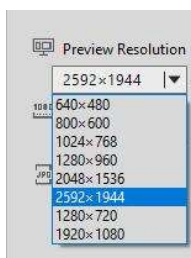


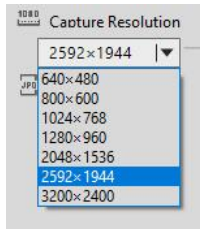
figure

3.2 Resolution Settings



Preview options : You can select any of the preview resolutions in this drop-down box to preview as you wish. Note: the higher the preview resolution, the lower the frame rate. When you preview at 1280×720 or 1920×1080, save only 1280×720 and 1920×1080.

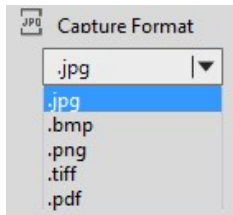




Save resolution



: This option is used to select the resolution of the image taken. When it is locked "🔒", the preview resolution is consistent with the photo resolution, and the preview screen displays the same as the photo taken. When in the unlocked state "🔓", the preview resolution and photo resolution can be set separately.



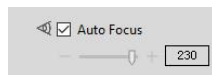
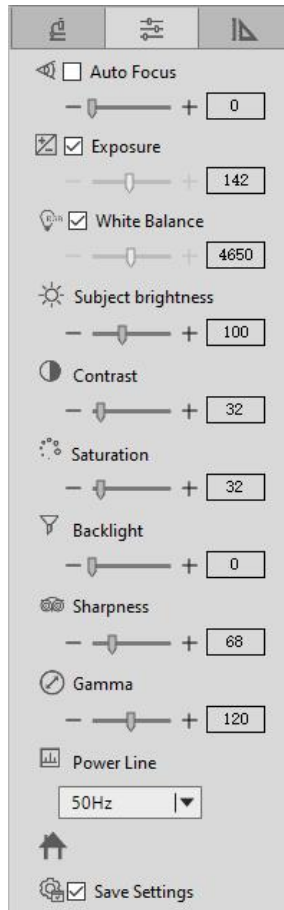
Save image format

: There are four save formats: jpg, bmp, png, tiff and pdf. The default format is JPG. Depending on your requirements, you can choose any of these save formats.

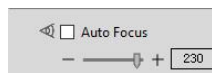
3.3 Device Settings Bar

According to your needs, you can adjust the corresponding image property parameters to achieve better preview and scan results.

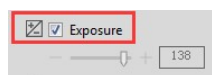
As shown in the figure:



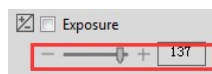
Auto focus : Check to autofocus the image in real time.



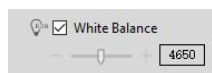
Auto focus : the image can be manually adjusted in real time without checking.



Automatic exposure : When checked, the device will automatically expose according to the environment used.

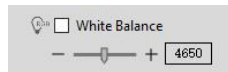


Manual exposure : When unchecked, manually adjust the exposure parameters to achieve a better exposure effect on the overall image.



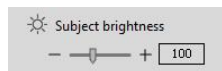
Automatic white balance function : When checked, the device will perform automatic white balance according to the environment used; When not checked, it can be adjusted by "manual white balance" below. Note: white balance deviations may occur when shooting images with richer colors. A manual calibration of the automatic

white balance is required. To do this, place a white paper on field of view, remove the "automatic white balance" box and check it again. Let the device perform an automatic white balance. When you're done, uncheck the "auto white balance" box.



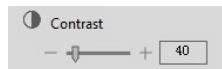
Manual white balance function

: Drag to adjust the white balance parameter of the device according to the usage environment. This parameter is adjusted up and down on the basis of automatic white balance. This parameter is only valid if the "automatic white balance" option is not checked.



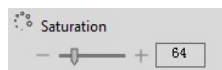
Subject brightness adjustment

: Manually drag to change the overall brightness of the screen. Often used in conjunction with contrast adjustment to achieve the best results.



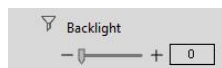
Contrast adjustment function

: Manually drag the screen to change the contrast between light and dark, often used in conjunction with brightness adjustment for best results.



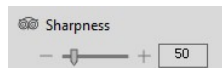
Saturation control function

: Manually drag to change the color saturation of the image for best results.



Backlight

: Manual dragging can compensate the defect of darkness in real-time image to achieve the best effect



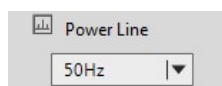
Sharpness

: Manual dragging can change the sharpness of the picture to achieve the best effect



Gamma

: Manual dragging can change the overall brightness and contrast of the real-time image to achieve the best effect



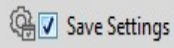
Power line regulation

: Note: the power frequency currently supports 50/60hz, please choose according to the national power frequency.



Restore default

: Restore to the factory settings



Save parameter : When checked, save the current settings when the device is power-off or the software is turned off.

★The above functions are only available for specific models. If there is no display, it means the product does not have this function.

3.4 Measuring Tool








Calibration function and measurement function can accurately measure in editing area.












Note:in order to measure correctly, the calibration must first be set, and the calibration method refers to:

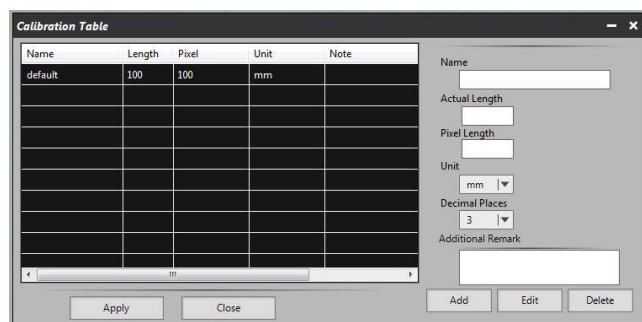
3.9 Calibration Function Settings.

As shown in the figure:

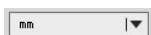


- 
 Linear measurement : Measure the distance as the crow flies between two points.
- 
 Parallel line measurement : Measure the distance between parallel lines.
- 
 Double parallel line measurement : Measure the distance between two parallel lines.
- 
 Stitche Measurement : Measure the circumference of the stitches.
- 
 Rectangular measurement : Measure the circumference and area of a rectangle.
- 
 Polygon measurement : Measure the perimeter and area of a polygon.
- 
 Arc measurement : Measure the length of the arc.

-  Four-angle measurement : Four points measure angles.
-  Angle measurement : Measure angles at three points.
-  Oval measurement : Measure the radius, circumference, and area of an ellipse.
-  Circular measurement : Measure the area, circumference, and radius of a circle.
-  Circle measurement (circle center, radius to determine the circle) : Measure the area, circumference, and radius of a circle.
-  Circle measurement (three points to determine the circle) : Measure the area, circumference, and radius of a circle.
-  Circle measurement : Measure the circle tool.
-  Circular measurement (concentric radius center distance) : Concentric radius center distance measuring tool.
-  Circle measurement (three-point circle center distance) : Three-point circle center distance measuring tool.
-  Scale bar
-  Calibration : Set the calibration. Click this function to bring up the calibration Settings window, as shown in the figure



calibration can be set in the window.

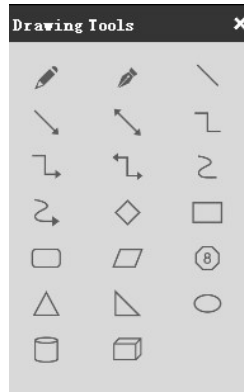






















unit

- : The measurement display unit of the current preview screen.

3.5 Drawing Tools








According to the requirements, draw in the editing screen, as shown in the figure:



-  Pencil
-  Pen
-  Straight Line
-  Straight Line with Single Head Arrow
-  Straight Line with Double-headed
-  Broken Line
-  Single Arrow Polyline
-  Single Arrow Polyline
-  Curve
-  Arrow Curve
-  Rhombus
-  Rectangle
-  Rounded Rectangle
-  Parallelogram
-  Octagonal
-  Isosceles Triangle
-  Right Triangle
-  Ellipse
-  Cylinder
-  Cube

3.6 Drawing Tools

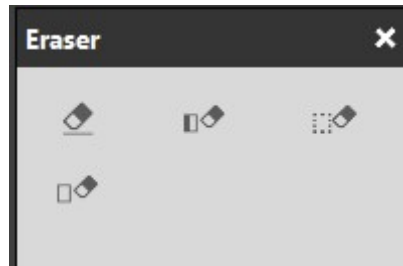






	Insert Text
	Insert Image
	Send Screenshot to clipboard
<input type="checkbox"/> Hide software window away during screenshot	Hide software windows away during screenshot.
	Take a screenshot of the rectangular area.
	Take a screenshot of the rectangular area.
	Take a screenshot of the entire window area.
	Print screen

3.7 Eraser

Erase the "object" in preview screen

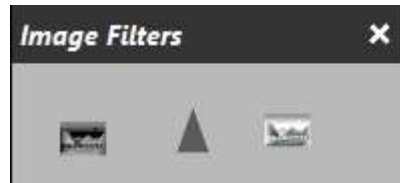
As shown in the figure:






-  Erase : Erase the objects on screen.
-  Rrase Objects : Erase the entire selected object.
-  Rectangular erase : Erase the selected rectangle.
-  Rrase All : Erase all objects on screen.

3.8 Image Filters

Operate the image in the editing area according to the requirements, as shown in the figure:



-  Inverted color : The inverted color effect on the image.
-  Grayscale : Grayscale effect on imagery.
-  Sharpen : Sharpen effect on the image.

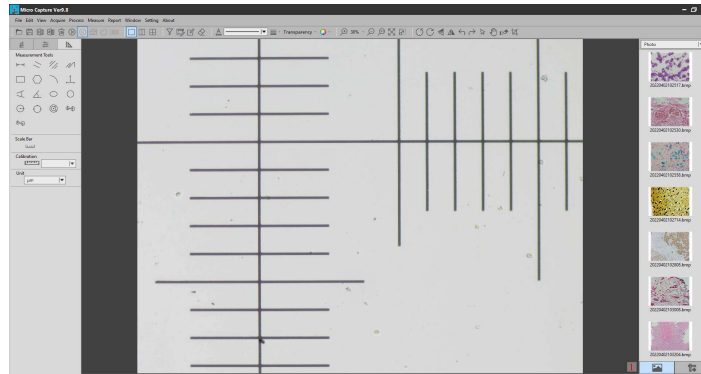
★ The effects feature is only valid in file mode.


3.9 Calibration Function Settings

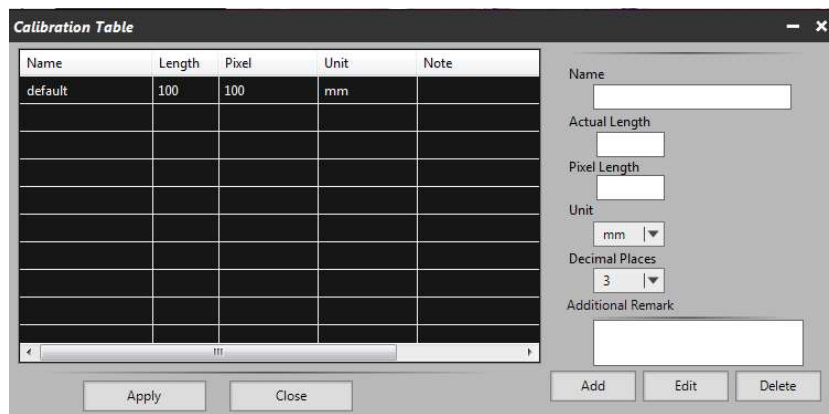
Step 1: Acquire benchmark image.

Place a scale ruler in the filed of view. Please use the same conditions (i.e. same objective lens, same camera resolution) as the target observation objects.If a magnification reduction lens is used to measure the target observation objects, then a magnification reduction is also needed to measure the scale bar. This is what we called acquire benchmark image.

As figure follows:

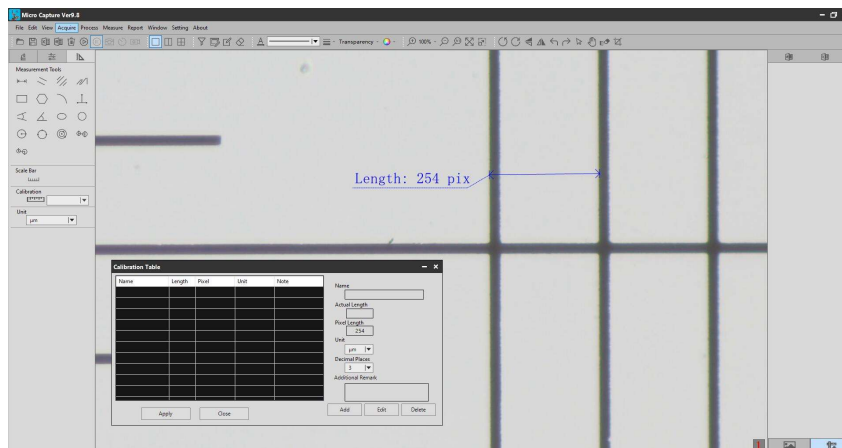


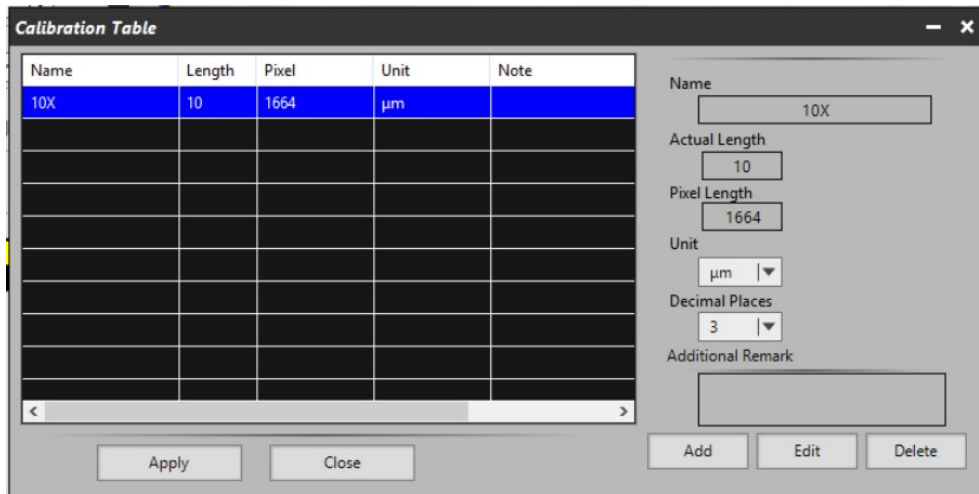
Step 2: Click "Calibration"  in the left measurement tools toolbar, calibration table will be shown as below figure.



Step 3: Setting scale ruler .

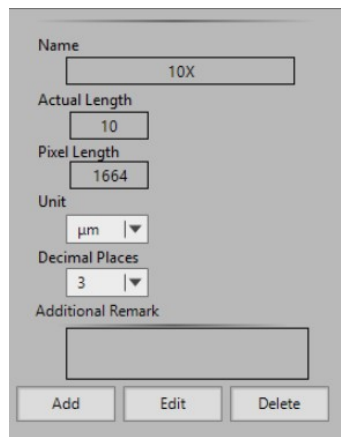
Draw a straight line on the scale ruler of benchmark image, pixel value will be automatically updated at "pixel length" on calibration table. Shown as below figure :



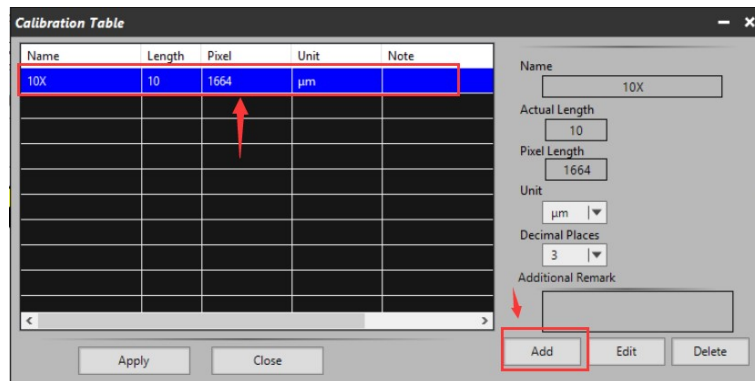


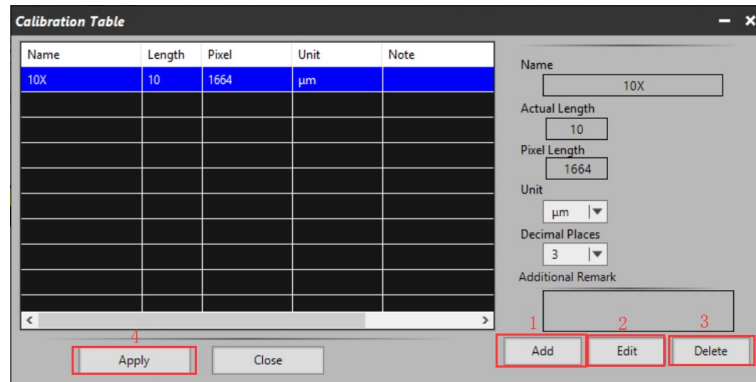
When drawing the straight line, the longer scale length, the more accurate results. For example, 10 scale lengths accuracy will be better than 1 scale length.

Step 4: Input the actual length and unit of the ruler in the calibration table. As shown in the figure below:



Step 5: click "Add" to save to the calibration table.



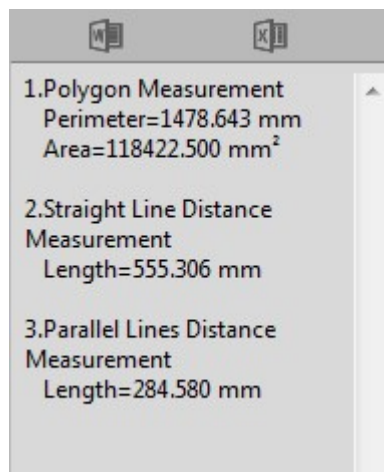


- 1)“Add”: Add the calibration information to the list on the left
- 2)“Edit”: Revise or edit selected calibration item on the left
- 3)“Delete”: Delete selected calibration item on the left
- 4) “Apply”: Activate selected calibration item as benchmark for current image



Step 6: After activating selected calibration item , put the object into the field of view, and click "

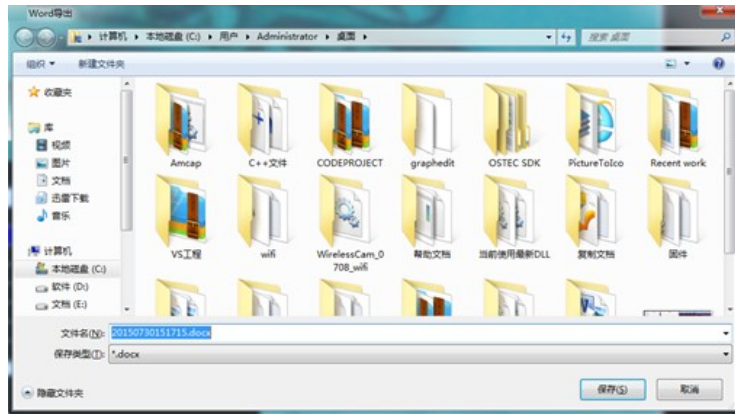


" in the left bar. Select the corresponding measurement tool, and the measurement results will be displayed in the right display area. As shown in the figure below:



Step 7: Export the measurement results.

Click   in the display bar on the right to export the data to Word or Excel. Enter the file name and path, and click "save". As shown in the figures below:

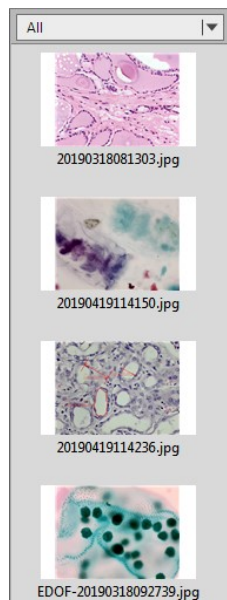


Serial No.	Measure Item	Measured Value
1	Polygon Measurement	Perimeter=1478.643 mm Area=118422.500 mm ²
2	Straight Line Distance Measurement	Length=555.306 mm
3	Parallel Lines Distance Measurement	Length=284.580 mm

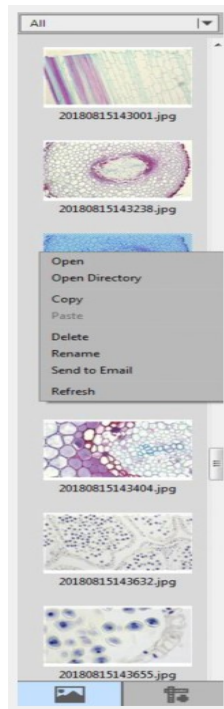
Serial No.	Measure item	Measured Value
1	Polygon Measurement	Perimeter=1478.643 mm Area=118422.500 mm ²
2	Straight Line Distance Measurement	Length=555.306 mm
3	Parallel Lines Distance Measurement	Length=284.580 mm

3.10 Thumbnail display area

General status



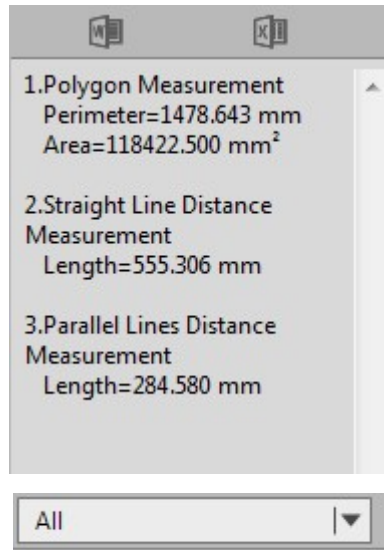
Right click the mouse on the thumbnail



- Open:Open the image in the system default mode
- Open Directory:Open the directory where the selected image is located
- Copy:Copy the currently selected image
- Paste:Paste a copied image (note: only paste in thumbnails)
- Delete:Delete the selected image and delete the source file
- Rename:Rename the selected image
- Send to Email:Add the selected image as an attachment to OUTLOOK
- Refresh: Refresh the thumbnail area of the current image

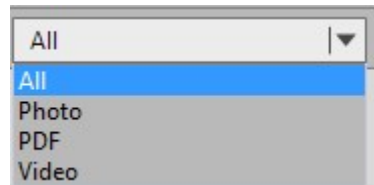
Click the bottom button to switch to display the measurement data





Picture display type

All , Photo, PDF and Video are options.



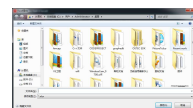
Thumbnail : Display pictures and files under the specified path.



Measurement : Display measurement data



Export to Word : Export the currently displayed measurements to Microsoft Office Word



Export to EXCEL : Export the currently displayed measurements to Microsoft Office Excel

