



Micro Capture Software

User Manual

Ver2.0

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Chapter 1 : Software Installation

1.1 Environmental Requirements for Software Installation

Compatible system: XPsp3, Win7 , Win8, Win8.1

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

Microsoft Word 2003 or version above (with function of Word Export for calibration result)

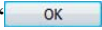
Microsoft Excel 2003 or version above (with function of Excel Export for calibration result)

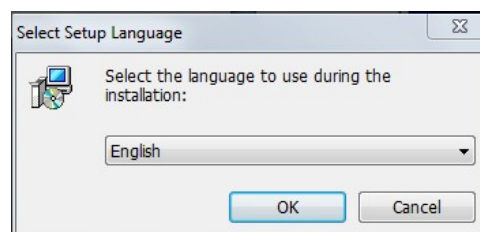
Microsoft Outlook 2003 or version above (with function of picture delivery by email)

Internet Explorer 7.0 or version above (with wireless connection function of software)

1.2 Installation

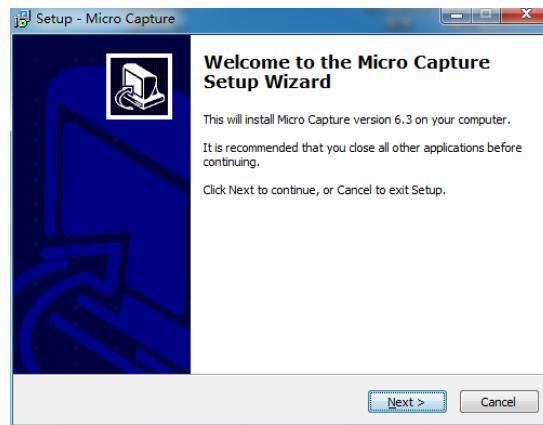
Step 1. Activate the computer and insert the installation disk into the DVD.

Step 2. Double click the file “MicroCapture Install” under the disk catalogue. When the following window pops up, please select the installation guide language and press the button “”.

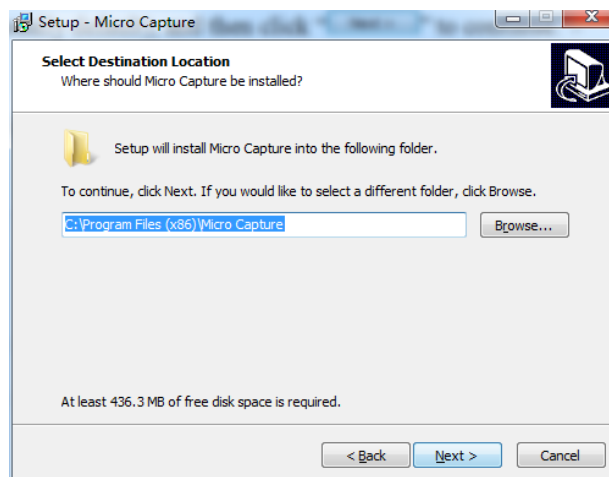


Note: The installation guide language is independent of the software interface language. If you need to change the software interface language, please refer to 2.2 - Modification of Language Function.

Step 3. When the window “Welcome to use MicroCapture Installation Guide” pops up, please click the button “Next >”.

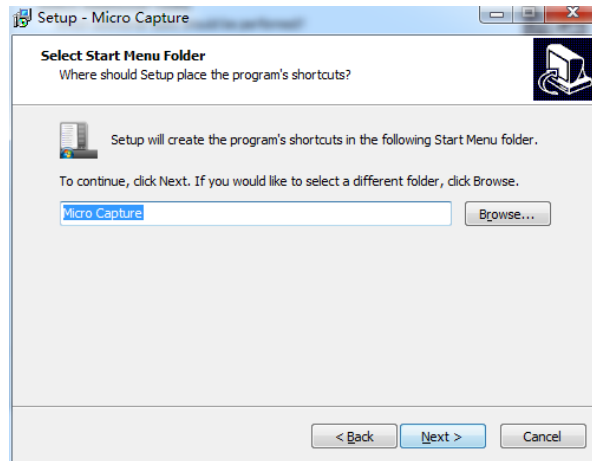


Step 4. When the window “Please select the target location” pops up, click “Browse” to choose the file path for installation (usually default), and then click “Next >” to continue.

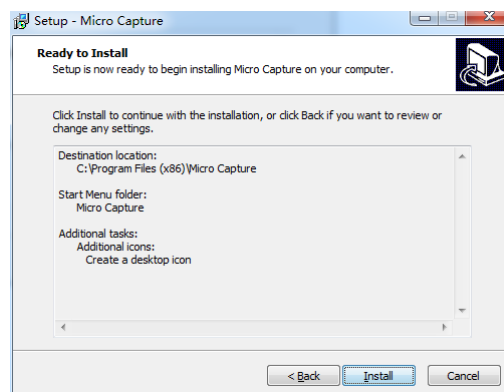


Step 5. When following window appears, select the shortcut you need, and then click the button

“Next >”.

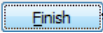



Step 6. Confirm information like “the target location” of software installation. After confirmation, please click the button “Install”.

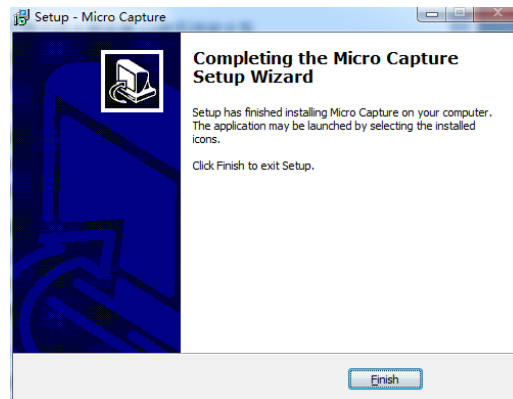


Step 7. An installation progress bar will appear during the software installation procedure. The software installation necessitates the registration of some runtime libraries, which might be intercepted by some antivirus software. If such interception pops up, please allow the procedure to continue.

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

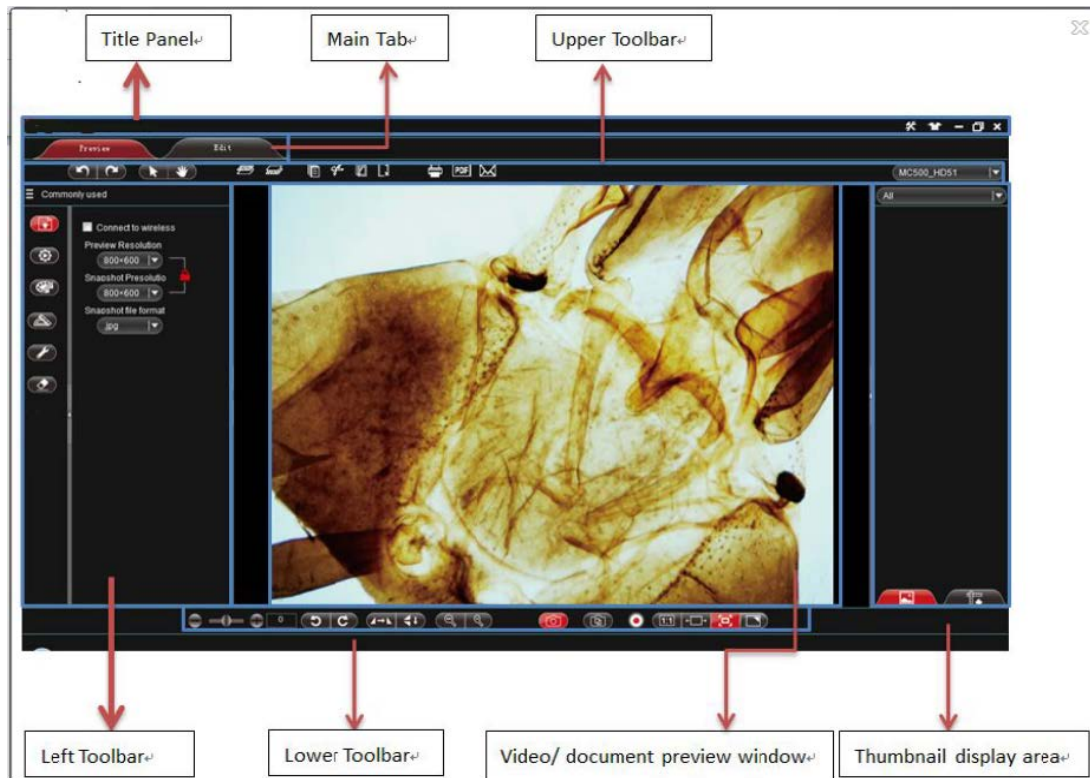
“” to complete the installation. After closing the window, check the icon  on your desk.

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

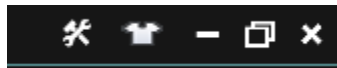


Chapter 2: Software Instructions

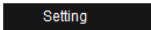
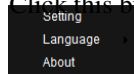
2.1 Software Operation Interface and Instruction



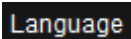
2.2 Title Panel



Setup Menu : Click this button to display relevant menu bar.



Setup : Set the photo shooting path, videofiles and save path of OCR files, as shown below.






Language : Set the software interface language. After successful setup, the software interface language and prompt language will be changed.



Skin : Set up the background color of the software. Clicking this button will display the interface below:



After change the tab “” or “”, select “” for confirmation, as shown below:



2.3 Main Tab



Function:



Scan


: Camera is activated. Operation like adjusting the camera screen is available.

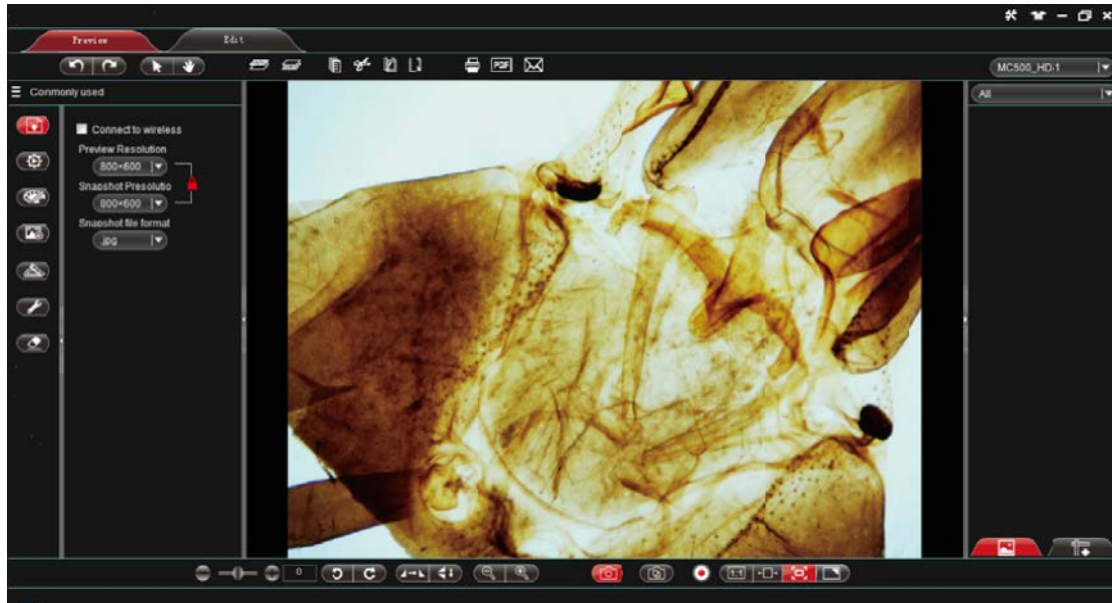


Document








: Make the currently displayed picture editable.

Chapter 3: Function Introduction of “Scan”Work Mode

Open the MicroCapture procedure. The default work mode is shown as “”. The software operation interface is displayed as above.



3.1 Upper Toolbar

	Revoke	:	Revoke the previous action, only valid for editing.
	Redo	:	Redo the previous action, only valid for editing.
	Select object	:	Select an object in the picture, only valid for objects in the editing picture.
	Drag	:	Drag the video screen randomly inside the preview area.
	Upturn object	:	Upturn the selected object to a higher layer.
	Drop down object	:	Drop down the selected object to a lower layer.
	Object Copy	:	Copy the selected object.



Object Cut : Cut the selected object.



Object Paste : Paste the object already beencut or copied.



Object Delete : Delete the selected object.



Print : Print the current preview and generate a photo.



Convert to PDF : Convert the current preview to PDF and generate a file.



Email : Email forward the current preview and generate a file.

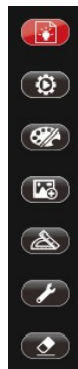


Rapid OCR : Process OCR for the current preview and generate a photo (For detailed OCR function, please refer to the notes below).









Select device : Display current operating devices. When the software searches out various video devices, several device names will be displayed for selection.

3.2 Left Toolbar

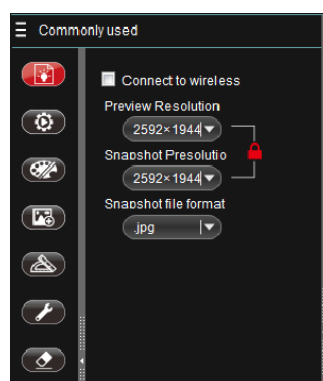


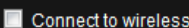
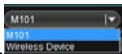
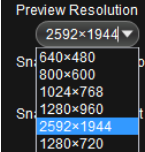
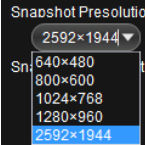
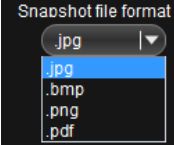




Standard : For wireless device connection, resolution setup or photo type setup.

	Video Parameter Adjustment	: Basic parameter setup for the device camera, such as focusing, exposure and white balance.
	Draw	: Draw lines for the current preview picture.
	Insert	: Insert words, specified pictures and screenshots into the current preview.
	Measure	: Execute measurement on current preview window
	Tool	: Cover the screen.
	Erase	: Erase the drawing object inserted into the current preview.

3.2.1 Standard

You can adjust relevant parameters according to your needs to achieve desirable effects for preview and photograph, as shown in image on the right:



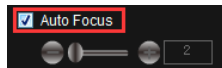
	Wireless Device Connection	: When this option is ticked, “Wireless Device” will display in the device selection window. Then a wireless device can be connected. For detailed operation information, please refer to “Wireless Connection Operation”. 
	Preview Resolution	: You can select any desirable preview resolution under this drop down box for preview. Note 1: The higher the preview resolution, the lower the frame rate. Note 2: Resolution supported by different devices varies.
	Save Resolution	: This option is used to select photo resolution. The proportion of the preview resolution keeps consistent with that of the save resolution. When the preview resolution ratio is 4:3, the save resolution ratio can only be 4:3 and the default maximum save resolution is 2592×1944. When the preview resolution is 16:9, the save resolution can only be 16:9 and the default save resolution ratio for 16: 9 is 1280×720. Note: The resolution supported by different devices varies.
	Save Format	: There are four save formats, namely pdf, bmp ,jpg and png. The default format for this procedure is jpg. You can choose any of the four save formats according to your need.
Lock:  Unlock: 	Lock and unlock status	: Under the status of Locking“  ”, the preview resolution keeps consistent with the photo resolution. The preview displays the same picture as that in camera. Under the status of Unlocking“  ”, the preview resolution is inconsistent with the photo resolution and the preview might show difference with the camera photograph.

3.2.2 Video Parameter Adjustment

You can adjust relevant parameter for desirable preview and scan effects, as shown in image on the right:

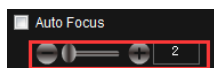


Note: Function supported by different devices varies.



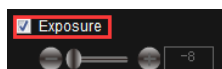
Auto Focus

: When this option is ticked, the preview changes and auto focus will be triggered if the connected device supports auto focus function. Then the “manual focus” function below is invalid.



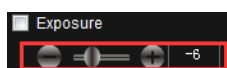
Manual Focus

: Drag to adjust the focus distance of the device according to the service environment.



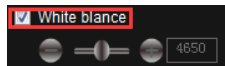
Auto Exposure

: When this option is ticked, the device will process auto exposure according to the service environment. This function is valid when the option is ticked. You can also apply “Exposure” for adjustment when this option is not ticked.



Manual Exposure

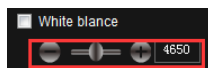
: Drag to adjust the exposure parameter of the device according to the service environment. This parameter is adjusted around the auto exposure and only valid when the “Auto Exposure” option is not ticked.



Auto White Balance

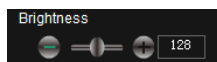
: When this option is ticked, the device will process auto white balance according to the service environment. The “Manual White Balance” below can also be applied for adjustment when this option is not ticked.

Note: When shooting colorful objects, color abnormality might occur. Thus manual calibration needs to be made for auto white balance. Detailed operation method: align the device with white paper, remove the tick on “Auto White Balance” option, and tick it again, making the device process auto white balance once. After that, remove the tick on the “Auto White Balance” option.



Manual White Balance

: Drag to adjust the white balance parameter of the device according to the service environment. This parameter is adjusted up and down on the basis of auto white balance and only valid when the “Auto White Balance” option is not ticked.



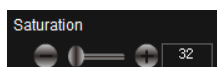
Brightness Control

: Drag it to change the entire brightness of the screen. Brightness control usually coordinates with contrast control to achieve the best effect.



Contrast Control

: Drag it to change the contrast between the brightness and darkness of the screen. Contrast control usually coordinates with brightness control to achieve the best effect.



Saturation Control

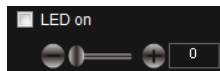
: Drag it to change the color saturation of the screen to achieve the best effect.



Backlight Compensation

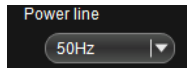
: Drag it to raise the brightness of the preview environment when the device is used in relatively dark environment.

Note: Partial device doesn't support this function.



LED Illuminating

- :
- Auxiliary LED light has 6 levels of brightness. A tick on this option stands for the first level of brightness. You can also adjust the brightness of LED light by yourself. When this option is not ticked, the LED light will turn off automatically.
- Note:** Some product doesn't support this function.



Power Line Control

- :
- This function makes the voltage of the device under the same frequency with that of the service environment to reduce the "crinkle" jamming effect of the preview screen.
- Note:** Power supply frequency currently supports 50/60Hz. Please select it according to the supply frequency of your location.



Default

- :
- Back to default settings.

3.2.3 Draw

Making drawing in the editing panel according to requirements, as shown in image on the right:



Pencil

- :
- Draw with pencil.






















Pen
















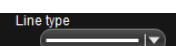

- :
- Draw with pen.



Writing Brush

- :
- Draw with writing brush.

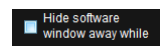










	Chalk	: Draw with chalk.	
Brush		: Draw with brush.	
	Texture	: Draw with texture pen.	
	Fill	: Paint bucket tool for filling color to selected closed area.	
	Upper layer	: Move the selected object to a higher layer	
	Lower layer	: Move the selected object to a lower layer	
	Straight Line	: Draw straight line.	
	Straight Line with single head arrow	: Draw straight line with single head arrow.	
	Straight Line with Double-headed arrow	: Draw straight line with double-headed arrow.	
	Curve	: Draw curve line.	
	Arrow Curve	: Draw curve with an arrow.	
	Broken Line	: Draw broken line.	
	Broken Line with single head arrow	: Draw broken line with single head arrow.	
	Broken Line with double-headed arrow	: Draw broken line with double-headed arrow.	
	Rectangle	: Draw rectangle.	
	Rounded Rectangle	: Draw rounded rectangle.	
	Parallelogram	: Draw parallelogram.	
	Rhombus	: Draw rhombus.	
	Polygon	: Draw polygon.	

	Isosceles Triangle	: Draw isosceles triangle.
	Right triangle	: Draw right triangle.
	Concentric Circles	: Draw concentric circles.
	Ellipse	: Draw ellipse.
	Cylinder	: Draw cylinder.
	Cube	: Draw cube.
	Prism	: Draw prism.
	Arc	: Draw arch.
	Hollow Arc	: Draw hollow arch.
	Moon Shape	: Draw moon shape.
	Smile Face	: Draw smile face.
	Heart Shape	: Draw heart shape.
	Dog ear	: Draw dog ear.
	Forbidden Sign	: Draw forbidden sign.
	cruciform	: Draw cruciform.
	Tick	: Tick shapes without change in size.
	Cross	: Cross shape without change in size.
	Line Type	: Set line shape of drawing with five types available.
	Line Width	: Set pixel value of the drawing line width with pixel range from 1 to 8.
	Transparency	: Set the transparency of the drawing line.
	Color	: Set the color of the drawing line.

3.2.4 Insert

Insert specified object according to requirements.



	Hide current program	:	With this option ticked, current program will hide when screenshot happens. Otherwise the program will be shown as normal.
	Trim	:	To trim the rectangular area.
	Screenshot to Clipboard	:	Put screenshot on clipboard and cut the square area on the clipboard.
	Random Screenshot	:	Random screenshot for any drawn area.
	Rectangle Screenshot	:	Rectangle screenshot for drawn rectangle area.
	Window Screenshot	:	Window screenshot for the whole window area.
	Screenshot	:	Screenshot for the whole screen area.
	Words	:	Insert words.
	Picture	:	Insert pictures.
	Font	:	Setup font, pattern, size and effects of inserted characters.
	Color	:	Setup the display color of inserted characters.

3.2.5 Calibration and Measurement

With calibration and measurement function, precise measurement can be made to video in the editing area.



Note: For precise measurement, first set calibration.

As shown in image on the right:



Straight Line Measurement : Measure the straight line distance between two points.



Broken Line Measurement : Measure the perimeter of the broken line.



Concentric Circles Measurement : Measure distance between concentric circles and area of two circles.



Arc Measurement : Measure the length of arc.



Angle Measurement : Measure angle degree with three points.











Quadri Angle Measurement : Measure angle degree with four points.








Rectangle Measurement : Measure the perimeter and area of the rectangle.

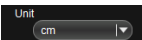
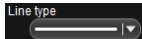

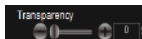



Polygon Measurement : Measure the perimeter and area of the polygon.

- | | | | |
|---|-----------------------------------|---|--|
|  | Two-point Circle Measurement | : | Measure the area, perimeter and radius of circle. |
|  | Center Circle Measurement | | |
|  | Three-point Circle Measurement | | |
| | | | |
|  | Oval Measurement | : | Measure the area, perimeter and radius of oval. |
|  | Parallel Line Measurement | : | Measure the distance between parallel lines. |
|  | Double Parallel Lines Measurement | : | Measure the distance between two parallel lines. |
|  | Calibration | : | Setup the calibration. Clicking this button will display the calibration setup window, shown as “  ”. Calibration can be set up in this window. |

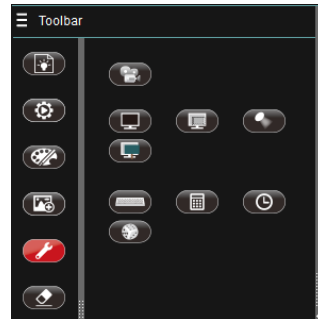
Simple Measurement Tool:










- | | | | |
|---|----------------|---|-----------------------------|
|  | Ruler | : | Ruler measurement |
|  | Compasses | : | Compasses measurement. |
|  | Protractor | : | Protractor measurement. |
|  | Set square 30° | : | Set square 30° measurement. |
|  | Set square 45° | : | Set square 45° measurement. |

- | | | | |
|---|--------------|---|--|
|  | Unit | : | Measurement display unit for the current preview. |
|  | Line type | : | Set up the line shape of drawing with 5 line types available. |
|  | Line width | : | Set up the pixel value of the drawing line width with pixel scope from 1 to 8. |
|  | Transparency | : | Set up the transparency of the drawing line. |
|  | Color | : | Set up color of the drawing line. |

3.2.6 Tool

Some tools can be used according to requirements, as shown in image on the right:

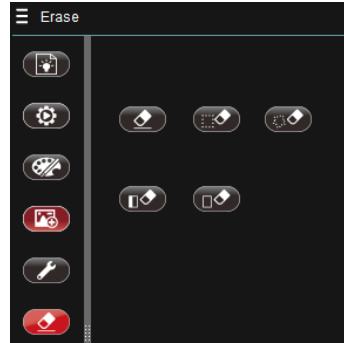


	Keyboard	:	Click this button for displaying keyboard function.
	Calculator	:	Click this button for displaying calculator function.
	Random Number	:	Click this button for displaying the function of random number.
	Clock	:	Click this button for displaying clock function.
	Black Screen	:	Black screen for covering the whole screen black.
	Screen Salience	:	Screen salience for foregrounding the drawn area.
	Screen Cover	:	Screen cover with covered area been draggable.
	Spotlight	:	Display different spotlight effects.
	Recorder	:	Record specified area or the whole screen. Effective coverage lies inside the green flicker frame, as shown in the image:



3.2.6 Erase

Erase the “objects”in the video preview interface according to requirements, as shown in image on the right.



Erase : Erase objects in the video preview.



Rectangle Erase : Circle objects needed to be erased.



Random Erase : Randomly select objects needed to be erased.

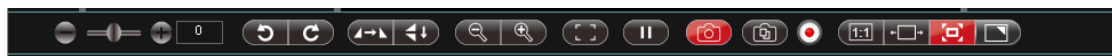


Object Erase : Erase the entire selected object.



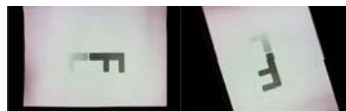
Erase all : Erase all objects in the video screen.

3.3Lower Toolbar



Rotate at any angle

: Drag the scroll bar to adjust the display direction of the screen,as shown below.





Rotate at anticlockwise 90°

: Click this button to adjust the correct direction of the file, as shown below:



Rotate at clockwise 90°

: Click this button to adjust the correct direction of the file, as shown below:



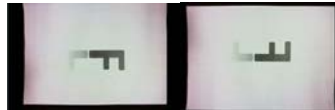
Mirror Image

: Click this button and pictures will show contrasts as below:

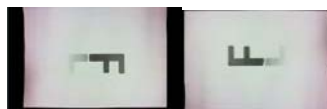


Flip

: Click this button and pictures will show contrasts as below:



Contrasts from flip + mirror image preview(equal to image flipped by 180°)



Shrink

: Under the preview resolution 640×480 , 800×600,1024×768, click the button“Shrink”or directly click the scrollbar with mouse to achieve the shrinkage of the preview screen.**Note:** Partial high resolution doesn't support shrinkage and magnification function of preview screen.



Magnify

: Under preview resolution 640×480 , 800×600,1024×768, click the button “Magnify ”or directly click the scrollbar with mouse to achieve the magnification of the preview screen.

Note:

- ①Partial high resolution doesn't support shrinkage and magnification function of preview screen.
- ②Shrinkage and magnification function applies to observing tiny objects during preview. Under this situation, once the button “Scan” activates, the shooting scope will be a full view image.



One-shot Focus

: Process one-shot focus to current screen.



Suspend preview

: Suspend current preview screen.



Actual Size

: Click this button to display the preview screen according to the actual resolution of the picture. If the displayed picture exceeds the preview scope of the current software, you can click the left mouse button for dragging. Under the mode of actual size, the default display area lies in the picture center.



Adapt to Width

: Click this button to display the preview screen according to the maximum width. If the displayed picture exceeds the preview scope of the current software, you can click the left mouse button for dragging. Under the mode of Adapt to Width, the default display area lies in the picture center.



Adapt to Screen

: Click this button to display the preview screen to the maximum. If the size of the picture is smaller than the maximum display range, the picture will be displayed to its actual size.



Full Screen

: Click this button to fill the picture to full screen in proportion. Under this mode, click the right mouse button or ESC to return with no change for the picture location. If the previous status is

1: 1, the return status is also 1: 1. If the previous status is adapting to screen, the return status is also adapting to screen.




Scan

: Click this button to scan the displayed picture in the preview window.



Continuous Time Shooting

: If you want to process continuous time shooting, please click the button“Continuous Time Shooting” and a setup window will pop up as shown below: you can fill the block behind “Photo Intervals” with photo intervals, and also fill the block behind the “Photo Limit Numbers” with the photo numbers.After setup, click “” to start.



Record

: Record the pictures shown in the preview window.

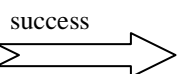
Note: The record resolution of partial high preview resolution during recording is 1280x960.

3.4 Add Wireless Device



The following shows steps for adding wireless devices:

First, make sure the computer has been connected with wireless device

Hardware equipment activates wireless mode.System searches for the name of the hardware WIFI and connects. Then enter the password. Successful connection is shown as below:

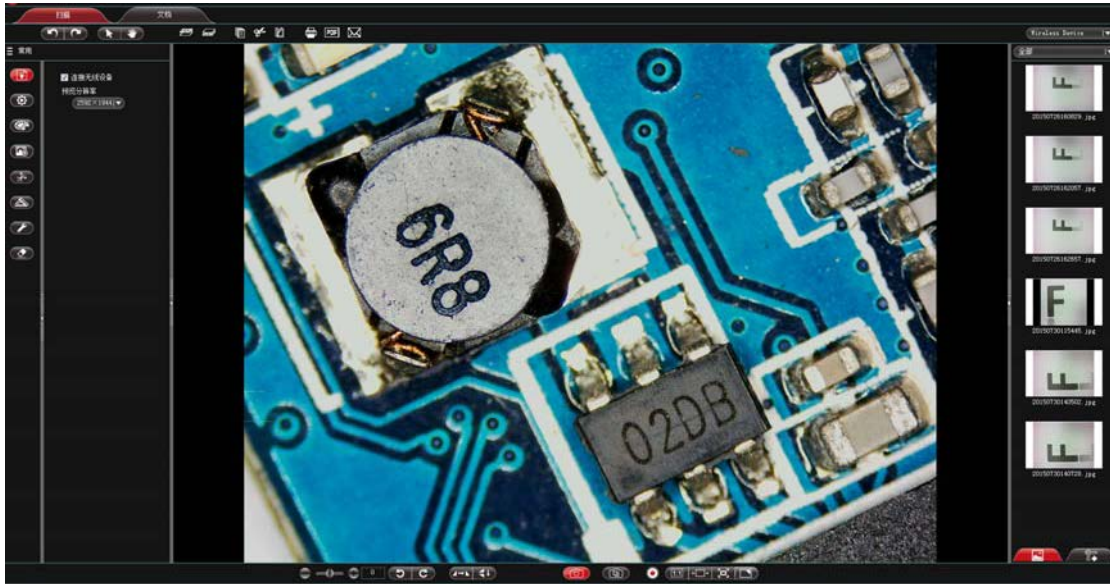


Second, Software Activates Wireless Device

Select the mode “”, click the “” on the right toolbar, tick “☒ Connect to wireless” and then select



The result is shown as below:



3.5 Detailed Operation for Calibration Function

The following is the specific operation steps for calibration function

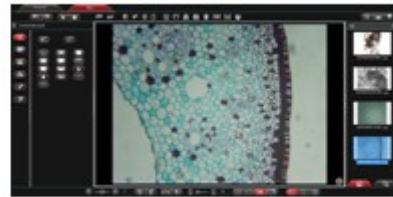
Step 1. Acquire benchmark picture. Under the same work mode with sample picture (the same objective lens and camera resolution. If shrinkage lens is used during the shooting of sample picture, then shooting micrometer picture also need shrinkage lens), shooting the picture with scales, which is called benchmark picture, as shown in the image at right:




Finally you will get two pictures, namely target picture and benchmark picture.

Left: target picture.

Right: benchmark picture.

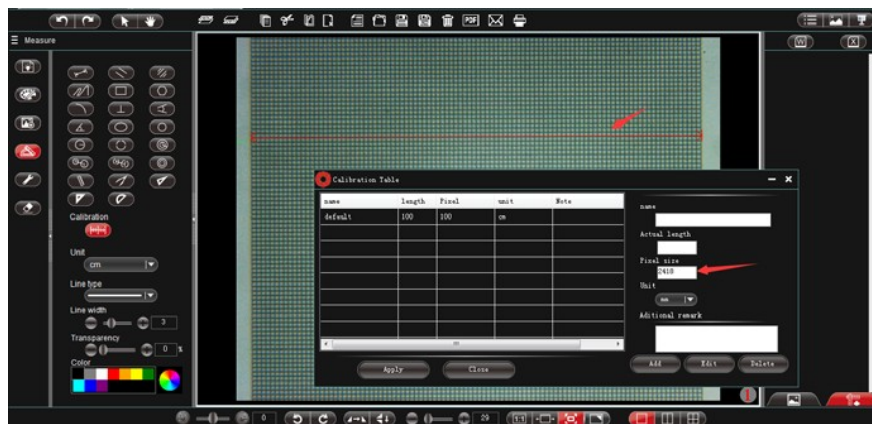


Step 2. Open the benchmark picture, click “Measure” on the left toolbar and then click “” to display calibration setup, as shown below:



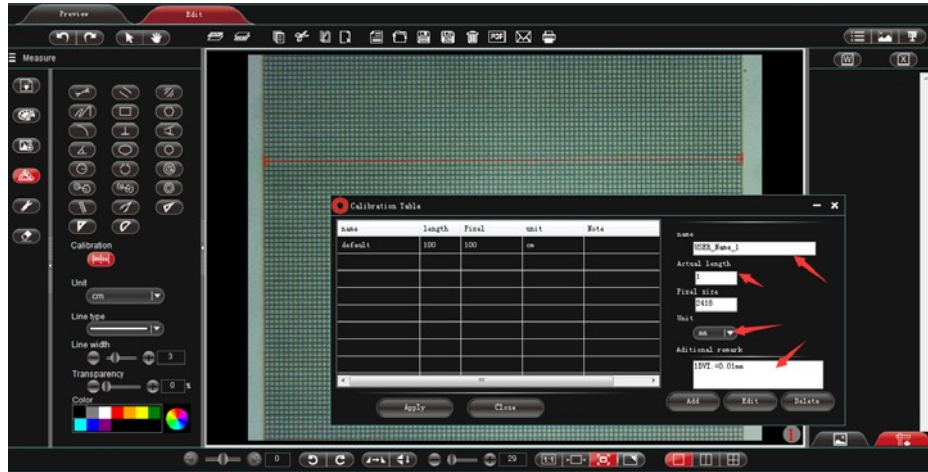
Step 3: Set scale label.

Draw a straight line on the benchmark picture, (When you set the scale length, the longer the scale length, the more precise the result is. For example, setting label with 10 scales will get much more precise result than label with only 1 scale.) as shown below: (pixel elements delineated will be updated into the block “pixel elements”)

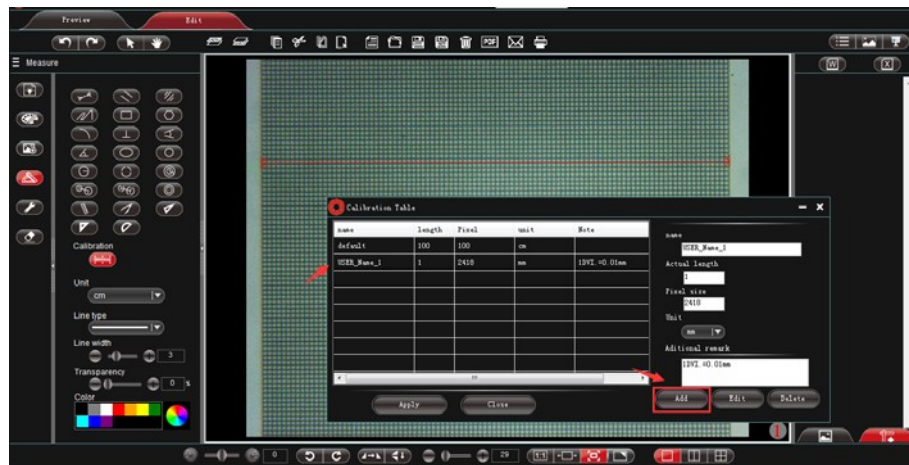


Step 4. Enter the name of the created calibration sheet and selected scale length.

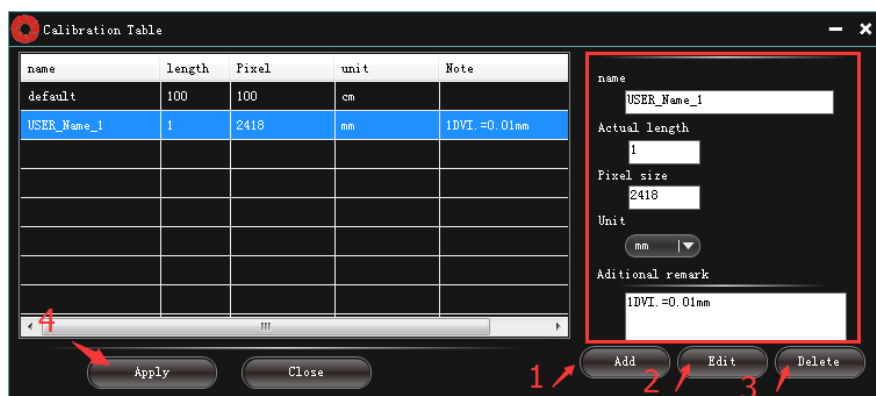
Suppose the unit of the calibrated scale in the benchmark picture is mm, relevant information should be filled in specified block, as shown below:





Step 5. Click “Add” to add the criterion defined in the benchmark picture to the calibration sheet of the software and save it for later use.

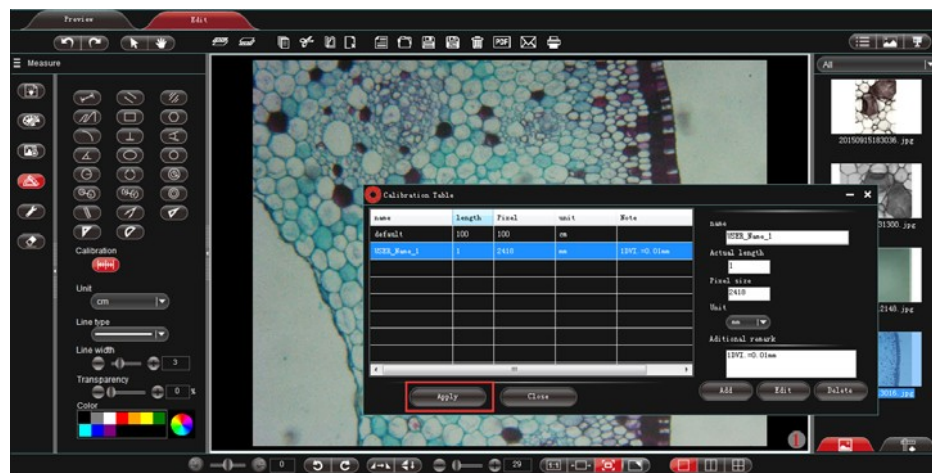


Note:

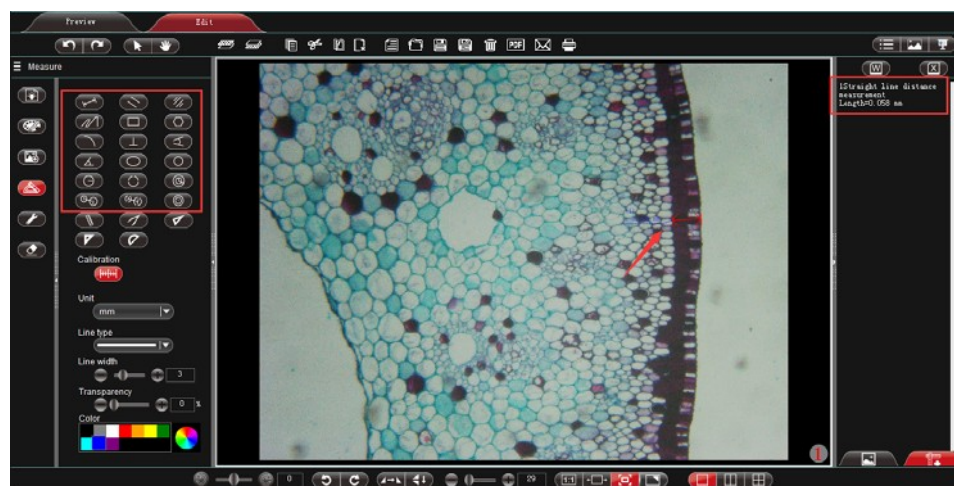


1. “Add”, add the information inside the red box to the “calibration sheet”
2. “Edit”, modify and edit the selected “calibration table” in the “calibration list” on the left.
3. “Delete”, delete items in the selected “calibration table” in the “calibration list” on the left.
4. “Apply to picture”, set the selected “calibration table” in the “calibration list” on the left as the current picture criterion.

Step 6. Insert target picture, click “” on the left toolbar, then click “” to set the criterion saved in the previous step as that of the current target picture, as shown below:




Step 7. Select relevant measurement tool to process actual measurement. Measured data will be shown in toolbar on the right, as shown below:



Note: The program offers measurement for straight line, parallel line, perpendicular, rectangle, circle, polygon and arc. Auxiliary marks can also be made from other functions of the program like “Draw”, “Insert” etc.






Chapter 4: “Document Mode” Function Introduction

















Click “” to enter document work mode-software operation interface, as shown in image on the right:



4.1 Upper toolbar



- | | | |
|---|---------------|---|
|  | Revoke | : Revoke the previous action, only valid for editing. |
|  | Redo | : Redo the previous action, only valid for editing. |
|  | Select object | : Select an object in the picture, only valid for object in the editing picture. |
|  | Drag | : Drag the preview under the “Scan” status. When the picture is larger than the display area under “Document” mode, you can drag the picture. |
|  | Bring Forward | : Upturn the selected object to a higher layer. |

	Send Backward	:	Drop down the selected object to a lower layer.
	Copy	:	Copy the currently selected object.
	Cut	:	Copy the currently selected object.
	Paste	:	Paste object.
	Delete	:	Delete selected object.
	New	:	Create a blank picture.
	Open	:	Open and import picture.
	Save	:	Save the current picture.
	Save as	:	Save as picture.
	Print	:	Print picture.
	P D F	:	Convert to and save as PDF
	Email	:	Select file and send email.
	Trash bin	:	Delete current picture.
	List	:	Click this button to display pictures of the thumbnail in list.
	Tile	:	Click this button to tile pictures of the thumbnail.
	Slide show	:	Click this button to play pictures of the thumbnail.

4.2 Left toolbar of Document



Standard : Wireless device connection, resolution setup and photo type setup.



Draw : Draw lines for the current preview.



Insert : Insert words, specified pictures and screenshot into the current preview.



Measure : Execute measurement on current preview window.



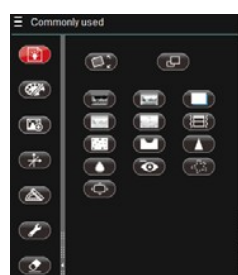
Tool : Cover the screen.



Erase : Erase the drawing object inserted into the current preview.

4.2.1 Standard

Practice operation to picture in document editing area according to requirements, as shown in image on the right:





Trim : Make proportional trim to the preview. Click it to show



Size control : Make adjustment to the size of the preview picture. Click it to show



Invert color : Invert color for image.



Monochrome : Monochrome for image.



Gray scale : Gray scale effect for image.



Shadow removal : Shadow removal for image.



Jitter effect : Jitter effect for image.



Embossment effect : Embossment effect for image.



Add noisy point : Add noisy point for image.



Corrosion : Corrosion effect for image.



Diffusion : Diffusion effect for image.



Sharpen : Sharpen the image.



Red eyeremoval : Remove red eye for image.



Outline : Outline the image.



Swell : Swell the image.

4.2.2 Draw

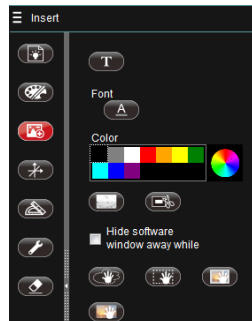
Practice drawing in the editing picture according to requirements, as shown in image on the right:



Note: for detailed function introduction, please refer to **3.2.3 Draw**.

4.2.3 Insert

Insert specified object according to requirements.



Note: for detailed function introduction, please refer to **3.2.4 Insert**.

4.2.4 Calibration and Measurement

Function of calibration and measurement can be applied for precise measurement of document within the editing area.

Note: for correct measurement, first set the calibration.

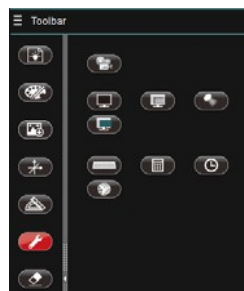
Function is shown in image on the right.



For detailed function, please refer to **3.2.7 Calibration and Measurement** and **3.6 Detailed Operation for Calibration Function**.

4.2.5 Tool


External tools can be used according to actual need, as shown in image on the right:






Note: for detailed function introduction, please refer to **3.1.5 Tool**.

4.2.6 Erase

Erase “object” in the video preview interface according to requirements, as shown in image on the right:

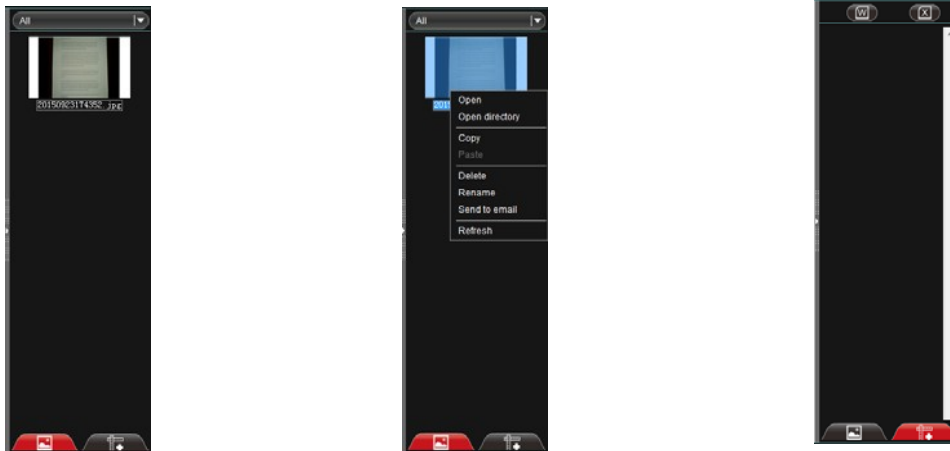
 Erase underpainting : When this option is ticked, background of the editing picture will be wiped altogether.

	One split screen	:	Make the editing area in one split screen
	Dichotomy screen	:	Make the editing area in two split screens
	Quartered screen	:	Make the editing area in four split screens

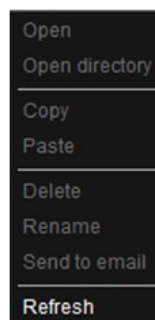
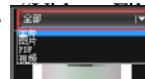


4.4 Thumbnail display area

Normal status , under the status of the right mouse button switch to data measurement display



Picture display type: select display types inside the picture list box, containing “All”, “Picture”, “PDF”, and “Document”, as shown below:



- Open : Open picture in default system method.
- Open catalogue : Open catalogue of the selected pictures.
- Copy : Copy currently selected picture.
- Paste : Paste already copied picture (Note: only can be pasted inside the thumbnail)
- Delete : Delete the selected picture and its source file.
- Rename : Rename the selected picture.
- Email : Add the selected picture to OUTLOOK as an attachment.
- Refresh : Refresh current picture thumbnail.



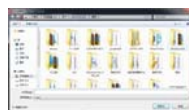
Thumbnail : display pictures and files under specified path



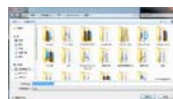
Measurement : Display current measurement result data
data



Word Export : Export current displayed measurement data to Microsoft Office Word.



EXCEL Export : Export current displayed measurement data to Microsoft Office Excel:



Meiji Techno America

5895 Rue Ferrari San Jose, CA 95138

Tel: 1(800) 832-0060 **Fax:** (408) 226-0900

www.meijitechno.com

info@meijitechno.com