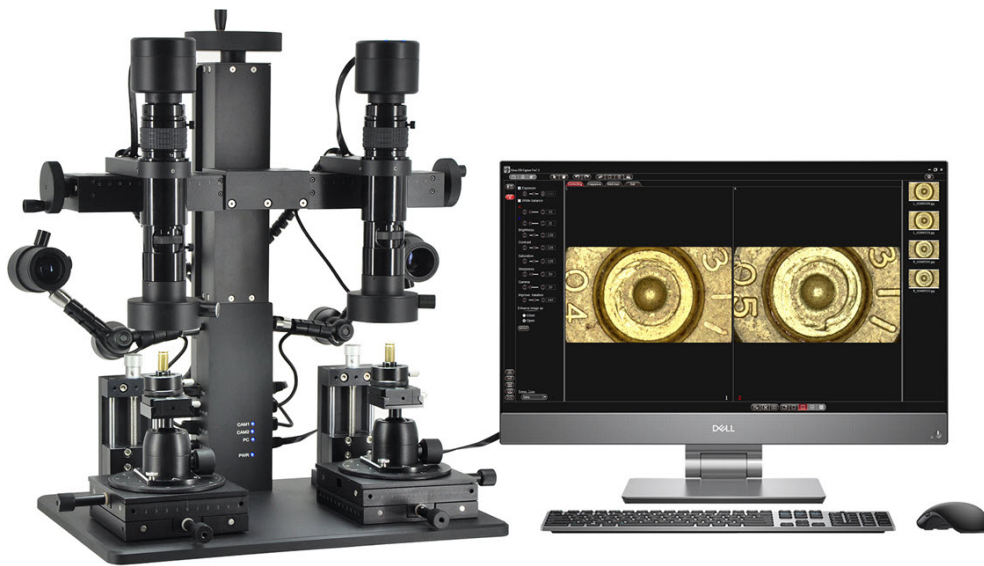


KoPa DB Capture

Software for Digital Comparison Microscope

User Manual



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Chapter 1: Software Installation

1.1 Environmental Requirements for Software Installation

Compatible system: xp, Win7 , Win8, Win8.1, Win10

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

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

Microsoft Excel2003 or above (with function of Excel Export for calibration result)

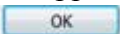
Microsoft Outlook 2003 or above (with function of picture delivery by email)

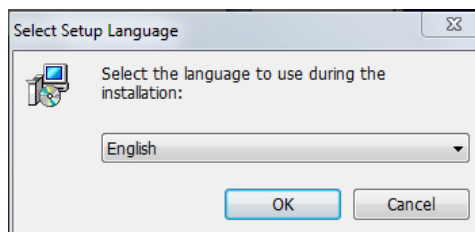
Internet Explorer7.0 or version above (with wireless connection function of software)

Computer setup: Memory: 8GB or more, CPU: 3.5 GHz or higher

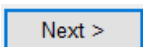
1.2 Installation

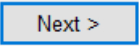
Step 1: Start the computer and insert the installation disk into the DVD driver.

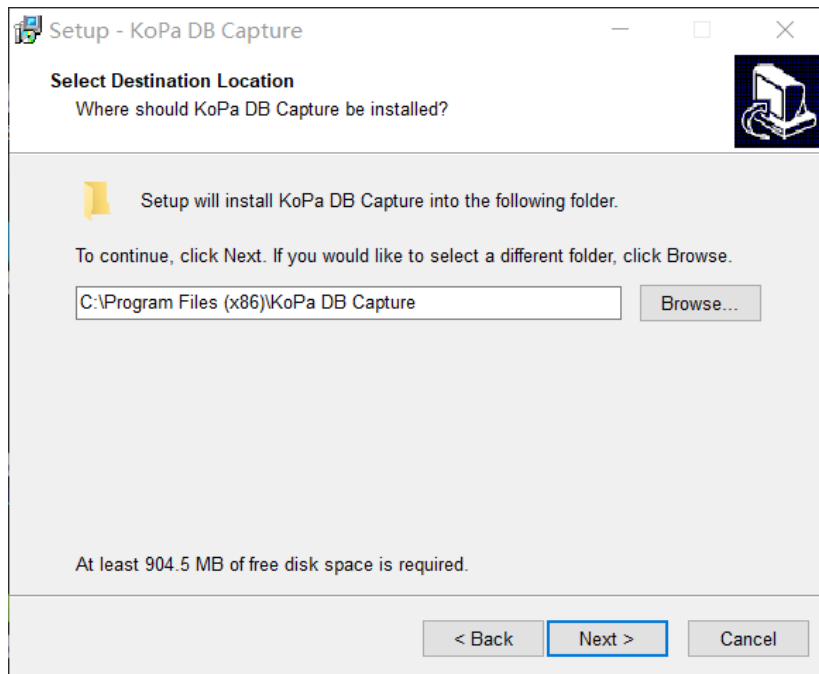
Step 2: Double-click the “KoPa DB Capture Install” file in the CD directory. When the following window appears, select the required installation wizard language and press”  ”button.

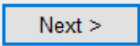


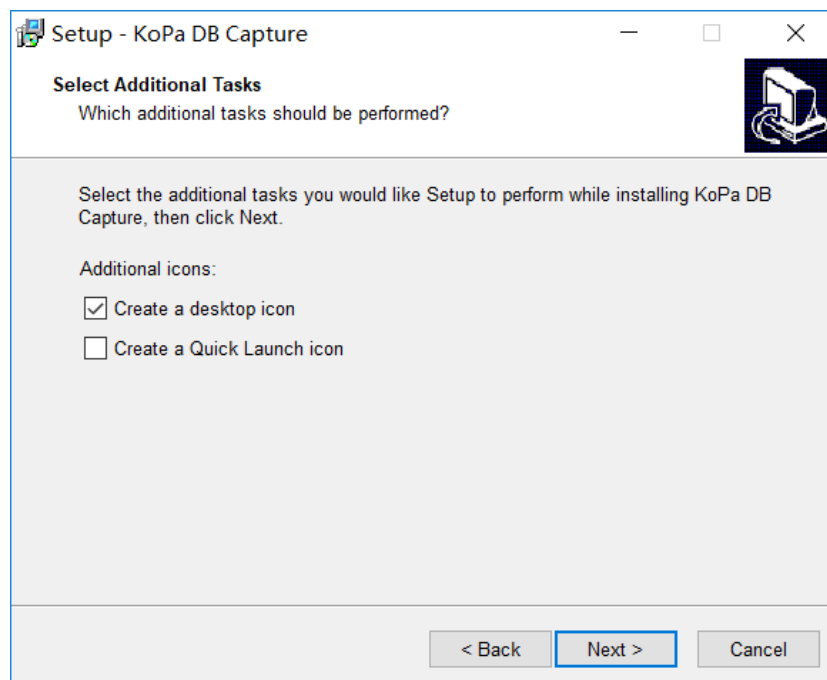
Note: The installation wizard language is independent of the language used by the software interface. If you want to change the software interface language, please refer to the 2.2 title in the text, the language function modification.

Step 3:When the window “Welcome to use KoPa DB Capture Setup Wizard” pops up, please click the button”  ”

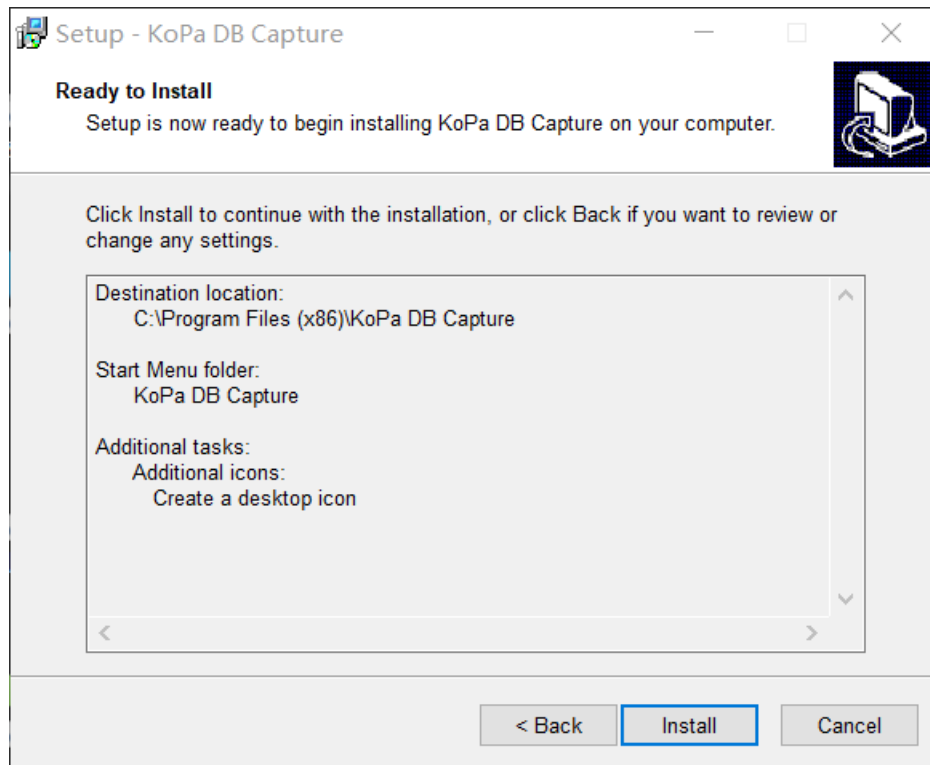
Step 4: When the “Select Destination Location” window appears, click “Browse” to select the file path you want to install. Generally, you do not need to modify it and then click “” to continue.



Step 5: When the following Window appears, select the shortcut you want and then click the “” button.

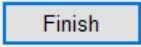


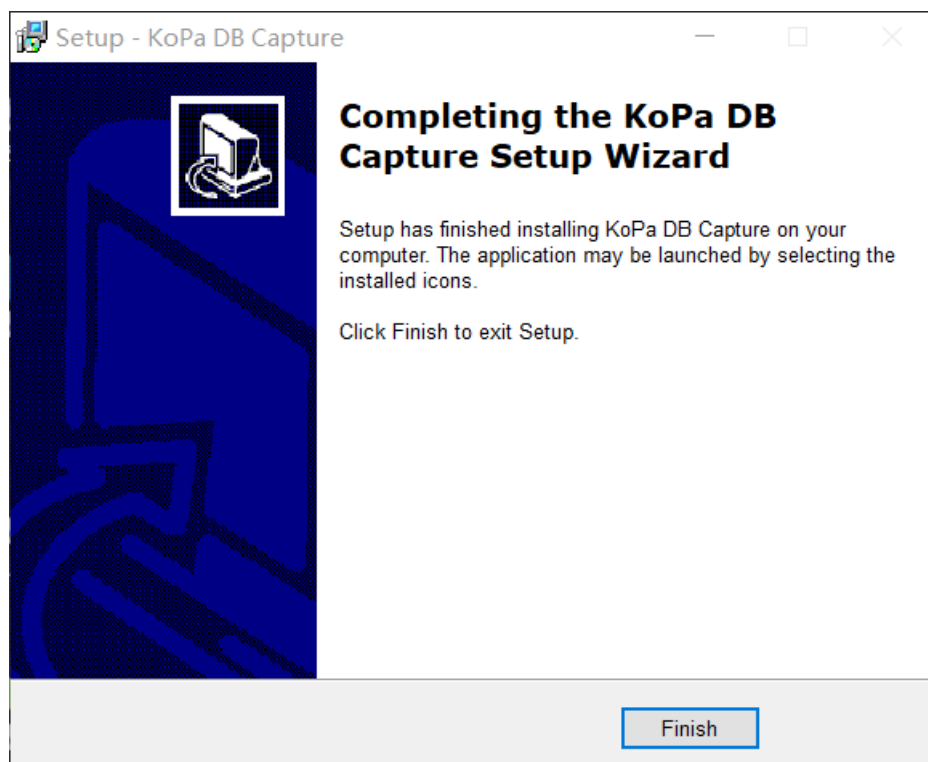
Step 6: Confirm the information such as the “Destination Location” of the software installation. After confirming, please click the " " button.



Step 7: During the installation process, the installation progress display bar will appear. During the software installation process, some necessary runtime libraries need to be registered, which may be intercepted by some anti-virus software. If prompted, please allow the program to continue running.

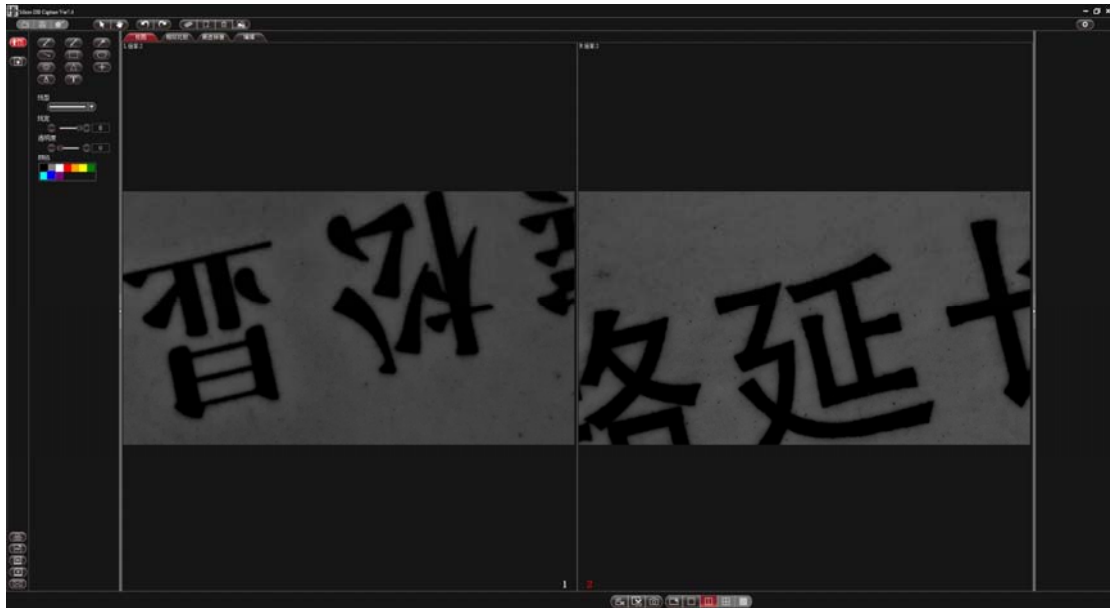
Step 8: The installation progress display bar will appear during the installation process.

When the following window appears, the software has been successfully installed. Click the “” button to complete the installation. After the window closes, check the desktop icon on your desktop. If you can't find it, look for it from the Start → All Programs.



Chapter 2: Software Instructions

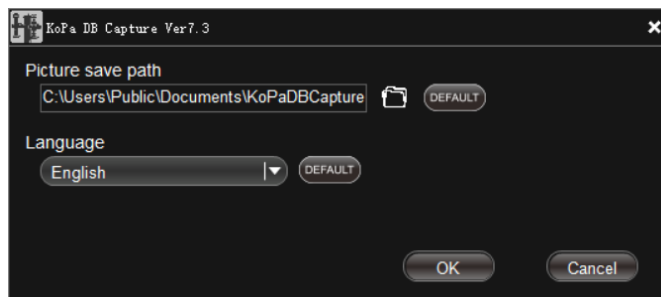
2.1 software operation interface and description



2.2 title bar

- Setting :
1. Used to modify the image storage path.
 2. Manually modify the current magnification of the left/right image.
 3. Modify the software interface language.

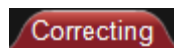
Shown as below:



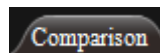
2.3 Main tab



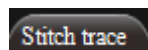
The functions are as follows:



Correcting : Adjust the video parameters and other parameters of the left and right images during the preview process.



Comparison : Compare the two images on the left and right.



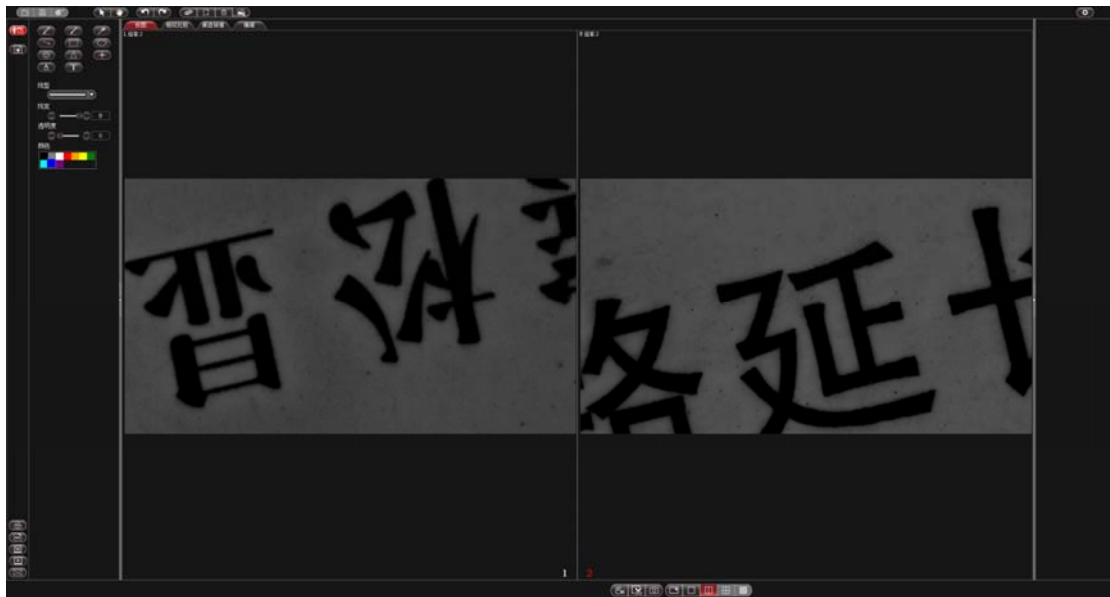
Stitch trace : Splicing the two pictures on the left and right.



Edit : Make the currently displayed image editable.

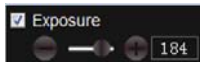
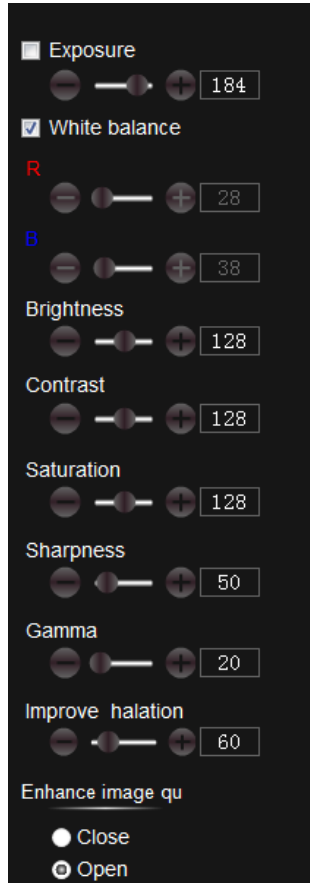
Chapter 3: Introduction of "Collecting"

Open KoPa DB Capture program, the program defaults to "Collecting" working mode, the software operation interface is shown as below.



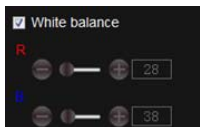
In "Comparison" working mode, the video parameters and position adjustment of the left and right images can be adjusted, and then compared.

 Attribute adjustment



Exposure

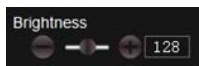
: Check the exposure, the camera will adapt to the current exposure value.
Do not check the exposure, enter the manual exposure state, drag the scroll bar, adjust the exposure value to achieve the best results.



White Balance

: Check the white balance and the device will automatically white balance according to the current environment.
When the white balance is not checked, enter the manual white balance state to adjust the R and B to achieve the desired color effect.

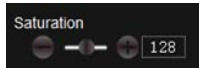
Note: Color anomalies may occur when shooting colored objects. Therefore, you need to manually calibrate the white balance. Detailed operation method: Place the white paper directly under the device and check the "white balance" once to make the device perform automatic white balance processing. Then, uncheck the "White Balance" option to put it in manual white balance.



Brightness : Change the overall brightness of the camera. Brightness control is usually coordinated with contrast control to achieve the best results.



Contrast : Change the camera contrast. Contrast control is usually coordinated with brightness control to achieve the best results.



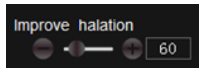
Saturation : Change the camera's color saturation for best results.



Sharpness : Change the camera's sharpness for best results.



Gamma : Change the camera's gamma value for best results.



Over-exposure suppression : Change the camera's over-exposure suppression for best results.

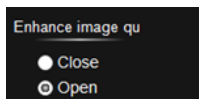


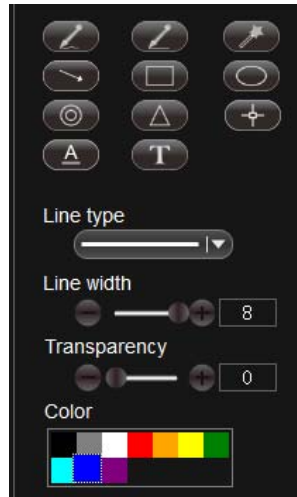
Image Enhancement : Turn image enhancement on or off for best results.














DEFAULT : Default value, restore camera property parameter to default value.





Review the document : Switch to the review document mode, provide review tools, such as: pencil and other tools for review.





-  Pencil : Draw with pencil.
-  Straight line : Straight line tool.
-  Highlighter : Highlighter tool, the content is automatically disappeared after about 3 seconds.
-  Single arrow straight line : Single arrow straight line tool.
-  Rectangle : Rectangle tool.
-  Ellipse : Ellipse tool.
-  Concentric circles : Concentric tools.
-  Isosceles triangle : Isosceles triangle tool.
-  Font : Modify the font and font size of the inserted text and the font and font size of the measurement tool
-  Insert text : Insert text tool.
-  Crosshair : Mark the center of the screen
- Line type : Modify the line type of the review tool.
- Line width : modify the line width of the review tool
- Transparency : Modify the transparency of the review tool.
- Color : Modify the color of the review tool.




 Print document : Print the currently selected document.
(Note: It should be used in document mode).

 Print document : Print the currently selected document.
(Note: It should be used in document mode).

 Export to Word : Export the currently selected document as a Word document.
(Note: It should be used in document mode, this computer needs to install Word).

 Export to Excel : Export the currently selected document as an Excel document.
(Note: It should be used in document mode, this computer needs to install Excel).

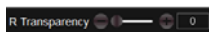
 Export to Email : Add the currently selected document to the email.
(Note: It should be used in document mode, this computer needs to install Outlook)

Chapter 4: Introduction of "Comparison"

Overlap the left and right images for similar comparison.



Transparency on L : Adjust the transparency on the left and use it with the transparency on the right to adjust the effect you want.




Transparency on R : Adjust the transparency on the right and use it with the transparency on the left to adjust the effect you want.




Return comparison : If you switch to cutting mode, click to return to the comparison function.



Horizontal cutting : When the mouse moves to the middle line of the picture, the mouse becomes icon , hold down the left mouse button, drag the cutting lines of the two pictures, drag and cut the two pictures for comparison.



Vertical cutting : When the mouse moves to the middle line of the picture, the mouse becomes icon , hold down the left mouse button, drag the cutting lines of the two pictures, drag and cut the two pictures for comparison.



Macro video : Record the current screen video.



Macro photo : Intercept the current video area screen.



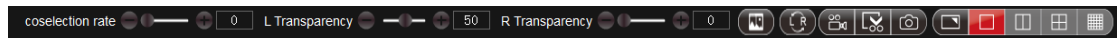
Snapshot : Take a picture of the video.



Full screen : The current video screen is displayed in full screen.

Chapter 5: Introduction of "Trace stitching"

5.1 Toolbar



Switch screen : Reverse the position of screen L and screen R.



Switch position : Display the picture L and the picture R in a horizontal manner.




Switch position : Display the picture L and the picture R in a vertical manner..



Snapshot : Combine picture L and picture R into one picture.






Chapter 6: Introduction of “Edit”






Click "  " to enter the picture editing work mode, the operation interface is shown as below:



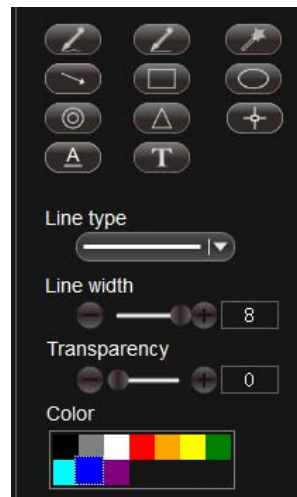
6.1 Upper toolbar














-  Open a file : Import a picture.
-  Save file : Save the currently edited file.
-  Select object : Select the object of the review or the measurement object.
-  Drag : Drag the current picture.
-  Undo : Undo the last review or measurement operation

-  Redo : Redo the last undo operation.
-  Eraser : Erase annotation content.
-  Delete object : Delete the selected object.
-  Delete all : Delete all comments or measurement content.
-  Delete document : Delete the currently edited file.

6.2 Review tools



-  Pencil : Pencil function.
-  Straight Pencil : Draw a straight.
-  Highlighter Pen : The object of the painting is automatically eliminated after 3 seconds.
-  Straight Line with single head arrow : Draw straight line with single head arrow.
-  Rectangle : Draw rectangle.

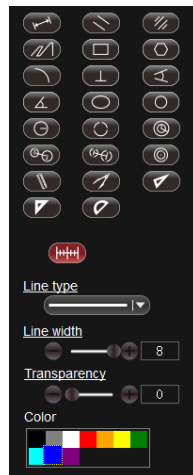
	Ellipse	:	Draw ellipse.
	Concentric Circles	:	Draw concentric circles.
	Isosceles Triangle	:	Draw isosceles triangle.
	Font	:	Setup font, pattern, size and effects of inserted characters.
	Words	:	Insert words.
	Crosshair	:	Picture mode is not available.
	Line Type	:	Set line shape of drawing with five 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.


6.3 Calibration and measurement


Measuring tools only available under one screen status after taking picture.


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
:
Polyline measurement: Measure the perimeter of the stitch.


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


- 
Arc Measurement
:
Measure the length of the arc.







- 
Angle Measurement
:
Three-point measurement an angle.

- 
Quadri Angle Measurement
:
Four-angle measurement: Four-point measurement an angle.

- 
Rectangle Measurement
:
Rectangular measurement: Measure the perimeter and area of the rectangle.

- 
Polygon Measurement
:
Measures the perimeter and area of the polygon.






- 
Two-point Circle Measurement
:
Measure the area, perimeter and radius of circle.

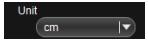
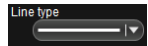
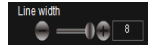
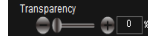
-  Center Circle Measurement : Measure the area, perimeter and radius of circle.
-  Three-point Circle Measurement : Measure the area, perimeter and radius of circle.
-  Oval Measurement : Measure the area, perimeter and radius of oval.
-  Parallel Line Measurement : Measure the distance between parallel 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.

6.4 Bottom toolbar



-  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.
-  Zoom out : Zoom out: zoom out picture proportionally.
-  Zoom in : Zoom out picture proportionally
-  Camera record : Camera record.
-  Screen record : Screen record.
-  Full screen : Full screen.
-  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.
-  Nine split screen : Make the editing area in Nine split screens.

One split screen:



Dichotomy screen:



Quartered screen:

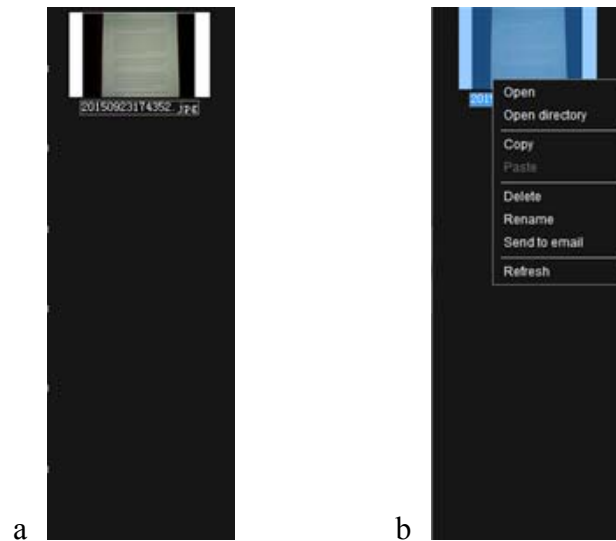


Nine split screen:



6.5 Thumbnail display area

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



- 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.
- One-click delete : Delete all images.
- Rename : Rename the selected picture.
- Refresh : Refresh current picture thumbnail.