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# **5315-S710**

# **Instructions**



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# 5315-S710 Camera Introduction

Our 5315-S710 camera has the global invention patent autofocus technology, 4K ultra high definition image quality, high-speed and stable USB and HDMI dual output image transmission.it can carry out different operations at the same time with high working efficiency without interference.

## 1 Preparation Before Use

### 1.1 Mode Switching

Mode switch: ON is HDMI mode and OFF is PC mode.



Switch the camera mode switch to OFF to enter PC mode

### 1.2 The PC mode matching device

1. Front-end matching: C mouth microscope or C port lens.

2. Supported system platform:

Microsoft system Windows32 bit Win7, Win8, Win10; 64 bit Win7, Win8, Win10.

3. Computer configuration requirements:

Processor: Intel (R) Core (TM) i3-3220 CPU @3.30GHz 3.30GHz, and above; Install the memory (RAM):2.00GB, and above.

### 1.3 The HDMI mode matching device

1. Front-end matching: C mouth microscope or C port lens.

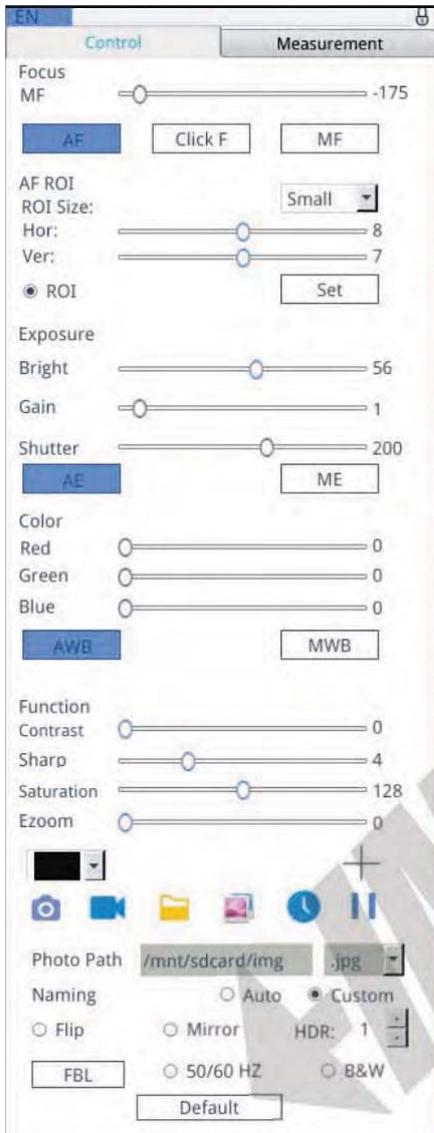
2. Back end matching: with HDMI can support 1920 \* 1080 @ 30 fps / 2592 \* 1944 @ 30 fps / 3840 \* 2160 @ 20 fps / 4000 \* 3000 @ 20 fps display.

## The HDMI Output Menu Description

When the camera dial switch is dialed to the ON end, it switches to the HDMI output mode, connecting the monitor and the mouse operation.

## 2 Menu Interface

### 2.1 Main Control Interface





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## 3 Details Of The Main Menu Interface

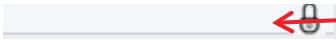
### 3.1 Language Pattern



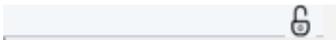
Click the upper left corner of the menu to choose the language mode, available in simplified Chinese, English, traditional and Japanese.

### 3.2 Lock the Menu

Click the lock icon in the upper right corner of the menu to switch the menu display status.



When locked, the menu is always displayed.



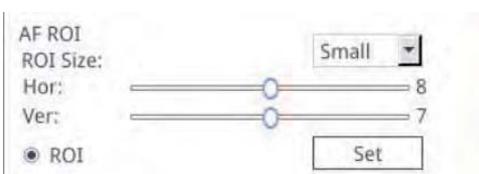
When "Open" mouse move to the upper left area menu display, move out of the upper left area menu hide.

### 3.3 Focus Mode



Click "Automatic focus" mode, the program judges the image blur automatic focus; click "one-button focus" mode, you can realize one automatic focus through mouse click, different focal planes click one key focus again. Click "Manual Focus" mode to pull the focus progress bar and adjust the focus value. In the manual mode, place the mouse on the focus progress bar and roll the mouse wheel to adjust the focus position.

### 3.4 AF ROI



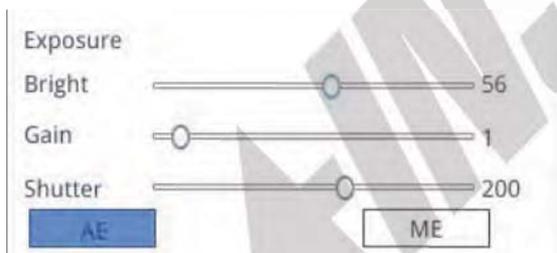
After checking "Focus frame", select the size of the focus box; pull the progress bar to adjust the horizontal or vertical position of the focus box; Focus frame: in automatic focus mode, check "focus frame" to display the image display area, and automatic focus can be realized through the click of the mouse. Change the size or focus position of the area to click Save.

Note: Click Focus only in small frame mode.

Double-click the left mouse button in the image area to set the color of the focus box

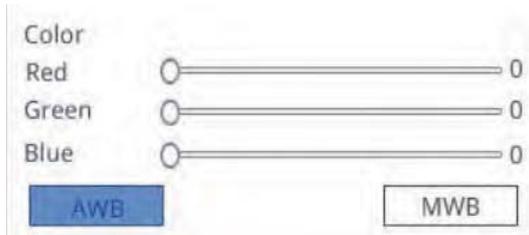


### 3. ⌋ Exposure



When checking "AE", pull the "brightness" progress bar, adjust the brightness; check "ME", pull the "gain" progress bar, adjust the gain, pull the "shutter" progress bar, adjust the shutter; reset the default automatic exposure.

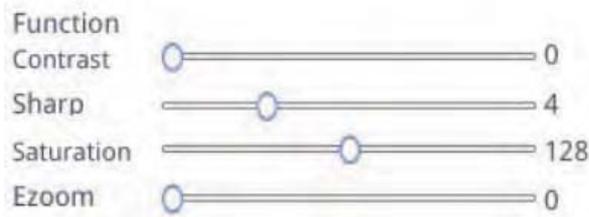
### 3. ⌋ Color



Automatic white balance: realize automatic white balance under different color temperature

conditions; manual white balance: can pull "red, green and blue" progress bar, adjust "red, green and blue" color value.

### 3.7 Function



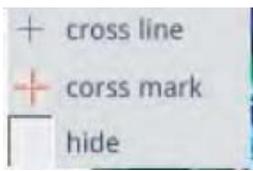
Contrast: 0-15 value is adjustable, reset the default value of 0;

Sharpness: 0-15 adjustable, reset the default value of 4;

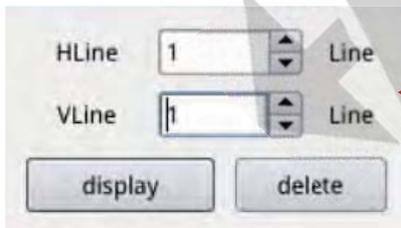
Saturation: 0-254 value is adjustable, reset the default value of 128;

Ezoom: 0-50 adjustable, reset the default value of 0.

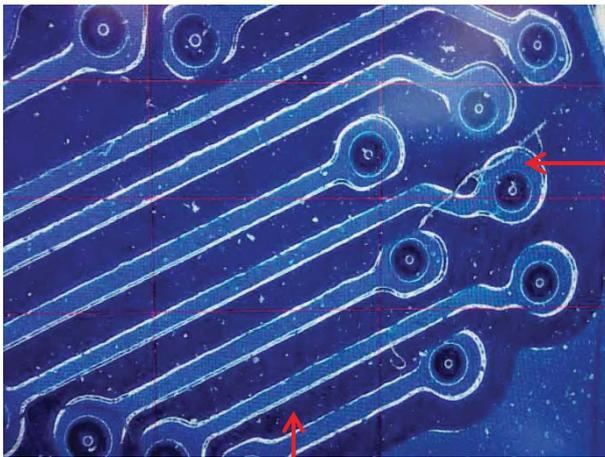
### 3.8 Cross Line



1. Click the Cross tool  and select "Cross line" to display the number of horizontal and vertical lines. After setting, select "Show" to display the image display area, and select "Delete".



Set the number of horizontal and vertical lines

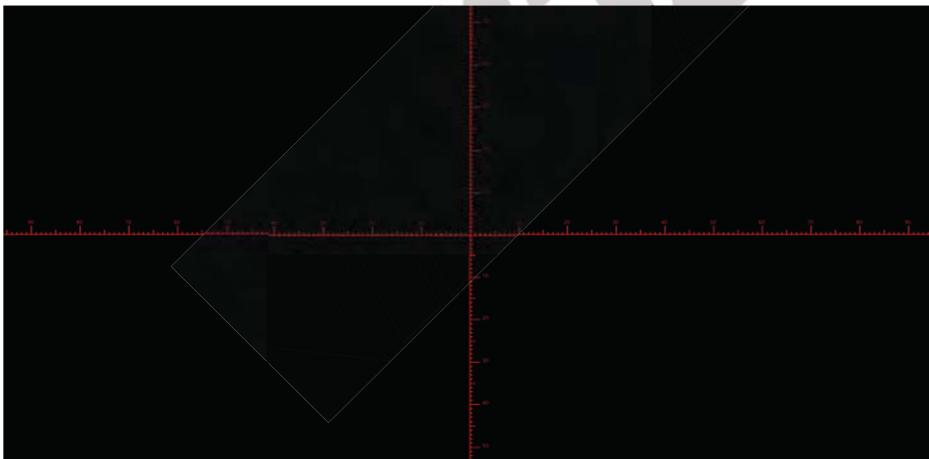


In measurement mode, hold down the left button to drag the cross.



In measurement mode, double-click a single crosshair to set its color and position, centered and delete.

2. Click the cross tool , select "Cross mark", the image area shows the cross scale line



3. Click the cross tool , select "hide", the image area will hide all the cross or cross scale lines.

4. Click set the cross color tool , drop-down can set the cross color, color set, draw the cross again, the previous cross color does not change.

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## 3. 9 Capture

### 3. 9. 1 Capture Operation

Click the "photo" icon, about 3 seconds later, prompt "success" to capture ", and click" OK ", the picture will be automatically saved in the fixed path of the TF card.

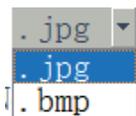
### 3. 9. 2 Photo Save Path

The photo save path is the camera fixed path, stored in the /mnt / sdcard / img folder of the TF card.



### 3. 9. 3 Photo Format

Click on the photo format drop-down to select the photo format, there are .jpg and .bmp Two formats available.



### 3. 9. 4 Photo Naming Rules

Photo naming rules select "automatic" is named by time, select "custom", you need to enter a name to save.



## 3. 10 Video

Click the "Video" icon , the interface prompts "Start recording", and click "OK" to start the recording;

During the video recording, the video icon flashes in the lower right corner of the screen;



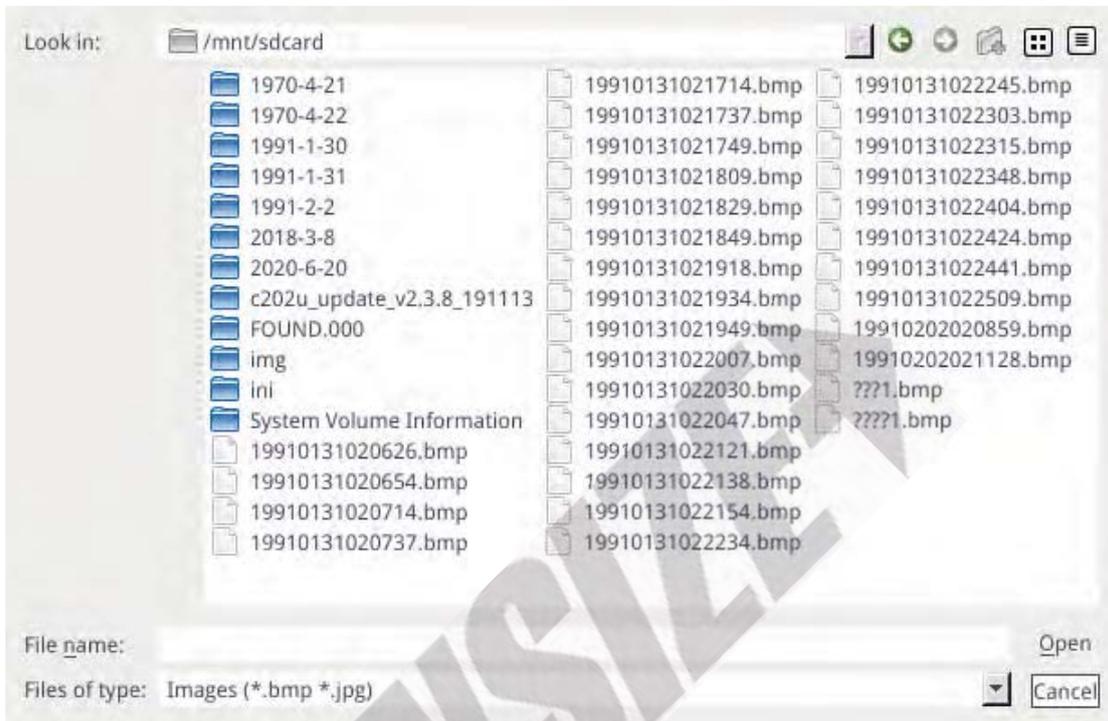
Click the "Video" icon  again, the interface will prompt "Stop the recording", and click "OK" to stop the recording.

Note: The video is named by date and automatically saved in TF card in format. H264, the

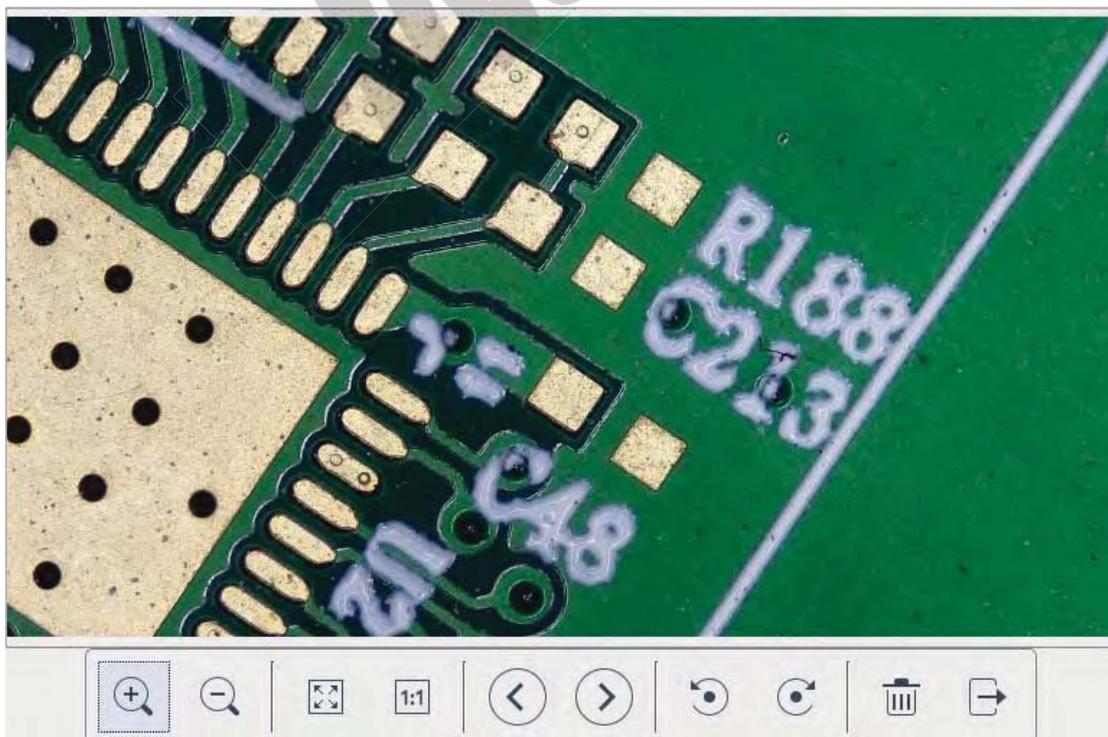
maximum single video recording is about 2 hours, the size is about 4G, more than 2 hours automatically stop video recording.

### 3. 11 Open Picture

Click the "open picture" icon  , the interface pop up select picture interface



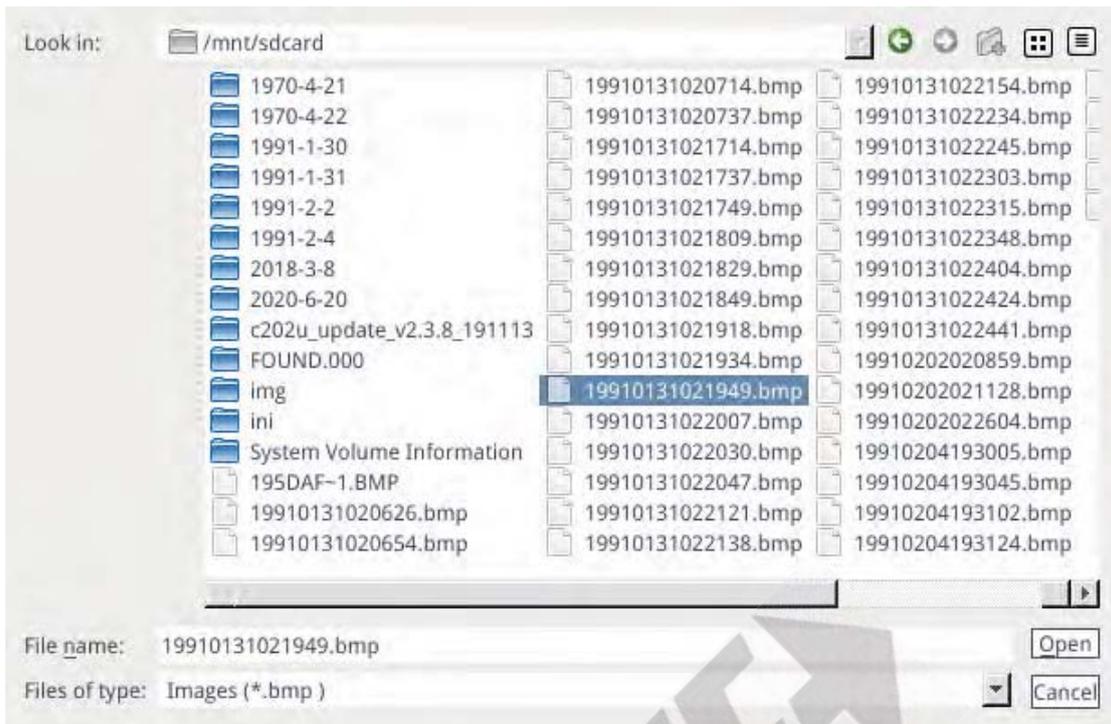
Select the open picture, pop-up the open picture interface



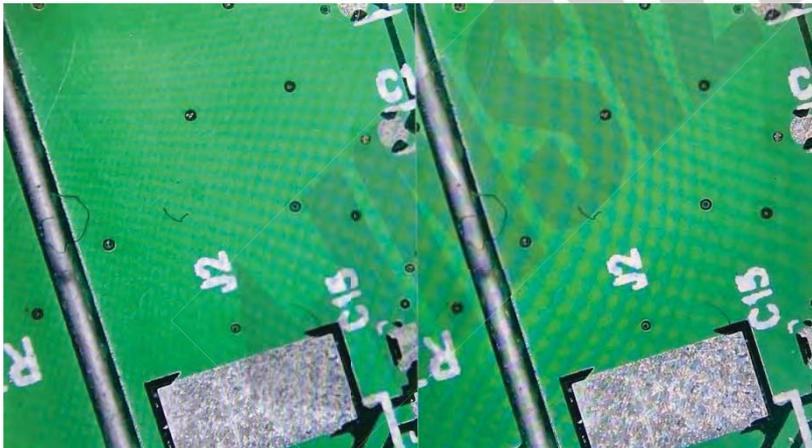
- 
1. Click the "Zoom" tool  to zoom in and out of the picture;
  2. Click the "Full-screen" tool  to display the whole picture in the picture interface;
  3. Click the "1:1" tool , the picture interface shows the picture part, hold down the left mouse button to move the picture position;
  4. Click the "browse" tool  to browse the upper and lower pictures;
  5. Click the "Rotate" tool  to change the direction of the picture clockwise or counterclockwise;
  6. Click the "Delete" tool  to delete the current picture;
  7. Click the "Back" tool  to close the current picture interface.

### 3. 12 Compare Picture

Click the "Compare picture" icon , the interface will pop up the selection picture interface



Select the contrast picture, pop up the contrast picture interface, the left side of the screen is the real-time video interface, the right side is the selected picture;



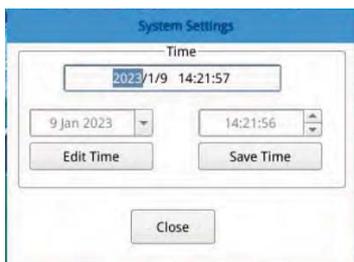
Real-time video interface Contrast pictures

Click the "Compare Picture" icon  again to close the comparison picture.

Note: Compare the pictures, only support the bmp format of pictures.

### 3. 13 Time Set

Click the "Time setting" icon  to pop up the time setting interface



After clicking "Change Time", you can click the date drop-down box to set the date; select the time to change, add or subtract values in seconds to set the time. After each time setting, you must click "Save time" to save it successfully. Click the "Close" icon to close the time setting interface.

### 3. 14 Freeze

Click the "freeze" icon  to freeze the current image interface, static image window to observe the measured object; after freezing, the icon becomes frozen state , click the icon  to return to the real-time display interface.

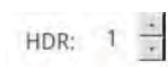
### 3. 15 Flip / Mirror



Check inverted: the vertical direction on the screen is opposite to the actual direction; check inverted and the horizontal direction on the screen is opposite to the actual direction.

### 3. 16 HDR

Wide dynamic: 0-3 adjustable, reset the default value of 1.



### 3. 17 FBL

In the camera, sensor moves up and down for 16mm. Click "Motor center"  and sensor moves to the middle position.

### 3. 18 Anti-screen flash

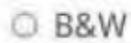
After checking it to achieve the effect of anti-screen flash.



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### 3. 19 B&W

Check is black and white mode, and the default is color mode.



### 3. 20 Default



Click default, all parameters back to the factory settings.

### 3. 21 version number

The current software version number is viewed at the bottom of the interface.



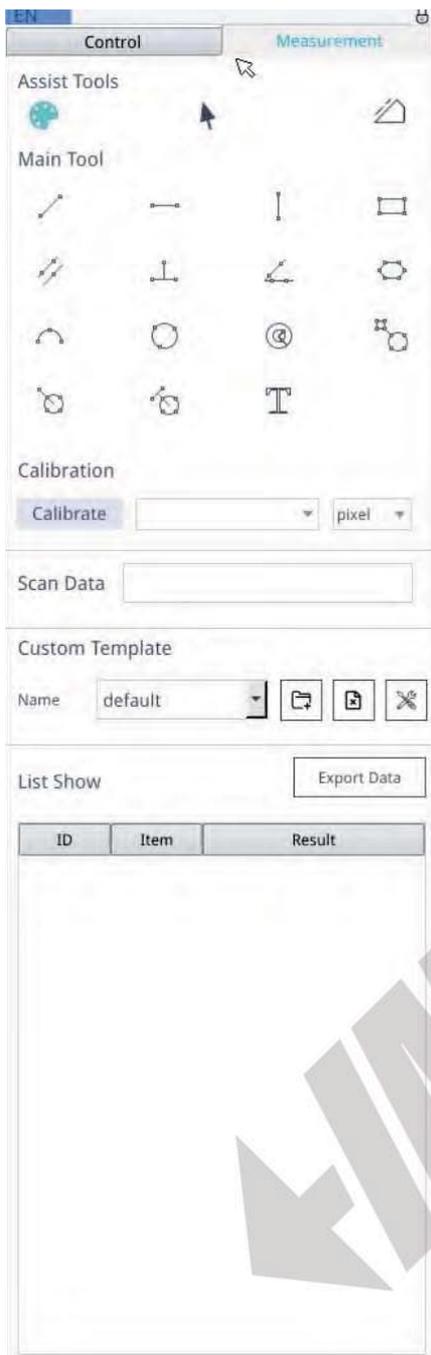
## 4 Detail of Measurement Interface

### 4. 1 Measurement Interface

Click the measuring tool to perform the measurement operation, when the menu appears with the right mouse click when the menu lock is "locked" . When the menu lock is "open"



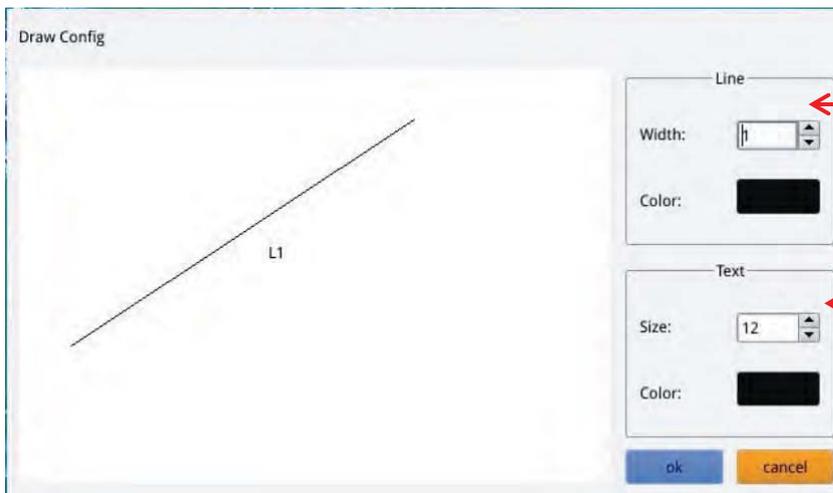
, click the menu and move the mouse to the menu area.



## 4. 2 Assist Tools

### 4. 2. 1 Color settings

Click the "Color setting" icon  to pop up the setting interface.



Sets the width and color of the line segment

Sets the font size and color of the label

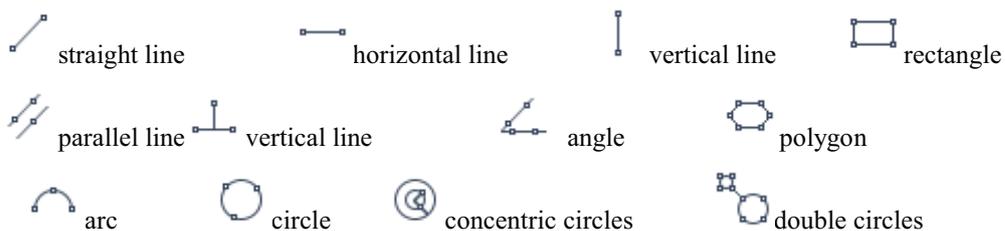
### 4. 2. 2 Measure Mode

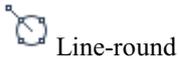
After the operation and measurement, the measurement mode automatically changes to the selected state, and the program automatically enters the measurement mode. Both the focus mode and the focus area can no longer be operated. The focus mode and the focus area can only be operated by using the left mouse button to click the measurement mode tool again.

### 4. 2. 3 Edge Detection

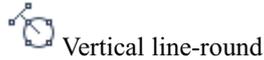
Click the "Edge Detection" icon , and the icon  turns blue after selection. When measuring the picture, automatic edge finding is realized.

## 4. 3 Main Tool





Line-round



Vertical line-round



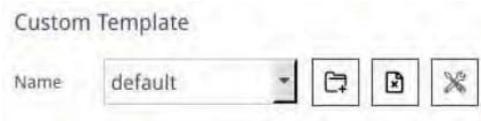
label

## 4. 4 Scan Data

This feature requires a scan gun. After scanning the barcode, the scanning data box displays the scanned data, and the data-named folder is automatically saved in the TF card, and the picture is saved in this folder.



## 4. 5 Custom Template



1. After drawing the element in the image area, click the "New" icon , and the "whether to convert the element into a template" window will pop up on the interface, and click "OK" to establish a new template;

2. After entering the name in the name window, click the "Save" icon  to save the template.

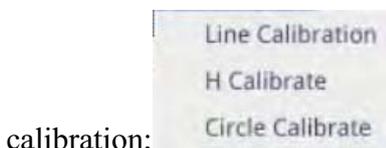
3. Click the Delete " icon  to delete the template.

4. Click "Modify" icon  to modify the template, Click "Save" icon  again, save the modified template and click "Return" icon , do not save the modified template.

## 4. 6 Measurement Operation

### 4. 6. 1 Calibration

1. Click the calibration tool down, can choose line calibration, H-type calibration or circle



calibration;

2. Drag the marking line to align with the engraving line of the fixed ruler, enter the multiplier value of the lens and the actual length between the engraving lines, and select the unit to complete the calibration.



◆Delete calibration: click the drop-down calibration list, select the calibration group to delete, and click the delete icon to delete the group calibration.

77, 22mm



Click the Delete icon to delete the group calibration

## 4. §. 2 Measure

1. The measurement tool contains a variety of line trace measurements, and the appropriate calibration and unit can be selected first according to the specific application.

77, 22mm



Drop-down calibration list, select calibration

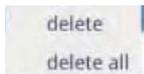
2. Select the appropriate tool for measurement, only the mouse points to select the anchor. release the mouse, the measurement data is displayed in the measurement data list area.

ID	Item	Result
1	Line	Len=302.166pixel
2	Line	Len=247.843pixel

List of measured data

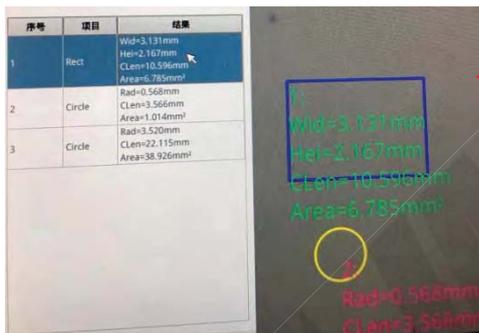
3. After the measurement is completed, the data in the measurement data list can be exported, click "Export data", the data will be automatically saved in the TF card. In the csv file, the user can enter a file name.

◆ **Delete measurement data:** in the measurement data list, select to delete data, click the right mouse button, and will prompt to delete a set of data, or delete all data, and select as needed.



#### 4. 3 Select the Measurement Data

1. Click the data in the measurement data list, the selected metadata is shaded in gray, and the selected element color in the image display area becomes the reverse color of the setting color.



Select the data in the measurement data list, and the image color becomes the reverse color of the setting color

2. Double-click the data in the measurement data list with the left mouse button, the selected metadata will pop up the dialog box, can modify the color and line width of the line, and lock the selected elements, the locked elements can no longer be operated.



#### 4. 4 detail

Double click the "List Show" <sup>List Show</sup> to display the detailed data dialog box to view all the current measurement detailed data.

 A screenshot of a 'Detail Data' dialog box. It features a table with 11 columns: 'name', 'distance', 'perimeter', 'area', 'angle', 'radian', 'width', 'height', 'radius', and 'annotation'. The table has 17 rows. The first two rows contain data for 'Line' objects, while the remaining rows are empty. A large, semi-transparent watermark 'ANSI' is overlaid on the table.
 

	name	distance	perimeter	area	angle	radian	width	height	radius	annotation
1	Line	302.166	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	Line	247.843	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										

## USB Output Menu Instructions

When the camera dial code switch is dialed to the OFF end, it is switched to the USB output mode, where the camera and the computer are connected with the USB cable and operated with the computer software.

## Software Main Interface



## 6 Main Menu Interface

 **USB Camera 1.3 5.0.2**

**Camera settings**

Focus Mode  
Focus  200

AF  MF  OneKey

FocusArea  
AreaSize

Horizontal  0  
Vertical  0

FocusFrame  ClickFocus

Exposure  
Brightness  56  
Shutter  0  
Gain  1

AE  ME

White Balance  
Red  550  
Green  269  
Blue  513

AWB  MWB

Camera Setting  
 Mirror  Flip

Adjustment  
Chroma  50  
Saturation  50  
Contrast  50  
Sharpness  4

Ratio

Decoding way

monochrome

**Measurement/Calibration**

**Image stitching**

**EDF**

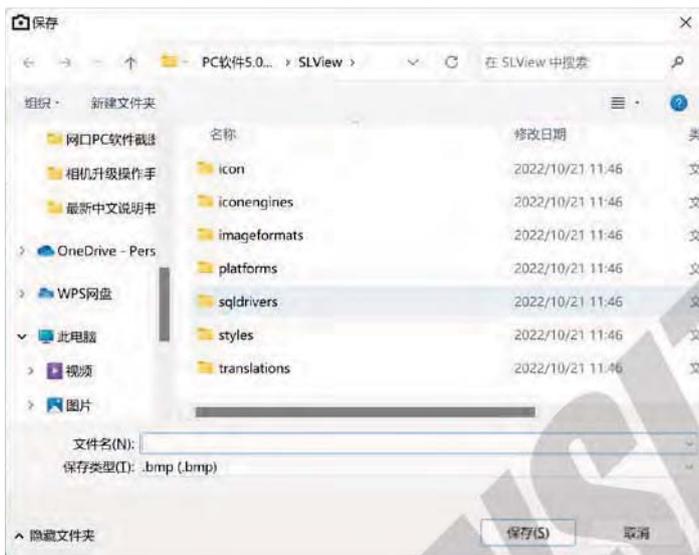
FPS: 31 fps

## §. 1 Auxiliary Functions



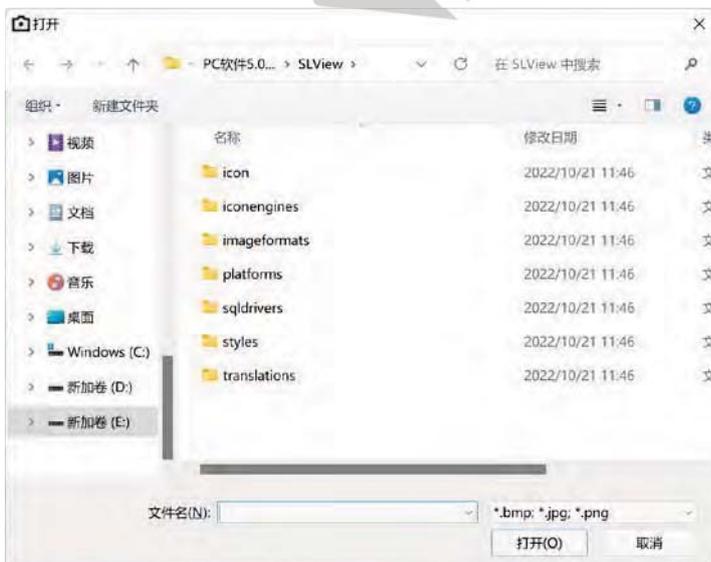
### §. 1.1 Capture

Click the "Capture"  icon. Photos taken will be automatically / manually saved to the specified directory of the computer. Automatic save path is set in the setting interface, and manual save immediately selects the storage path.



### §. 1.2 Open the Picture

Click the "Open" icon  to open the picture, you can find the picture you want in resource manager.



## §. 1. 3 Recorder

Click the icon  to start the recording with a red circle in the lower right corner of the screen. Click the icon  again to end the video. The video file will be saved under the manual / automatic path.

## §. 1. 4 Set

Click  to open the Setting interface



In device list you can select the camera you want to link with,click the small circle to choose the camera.

Click the  button to select the storage path.This path is the default save path for automatic photography.



Naming function has two options--auto and manual. When it's automatic naming, the picture taken will be automatically named by time and be saved in the storage path that you set before. When it's manual naming, you should decide the picture's name and storage path when click the "capture" button.

There are .jpg and .bmp two photo formats.

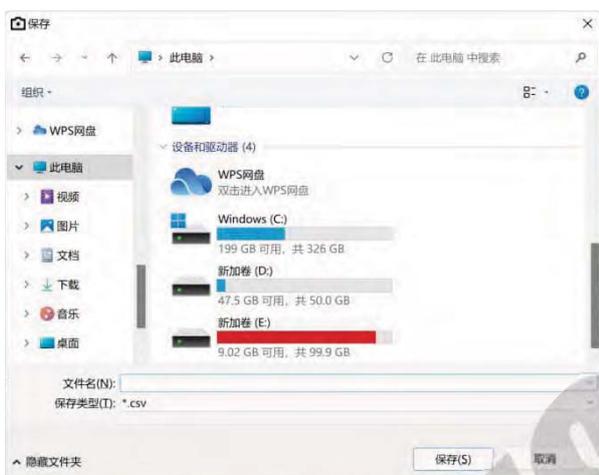
When you select “yes” of open the picture, the picture you take will be automatically played in the software, and it will be saved only after you click the snap button again.

When you select “yes” of SaveGraphics, the measure data will be saved in the picture.

There are Chinese and English two languages can be chosen.

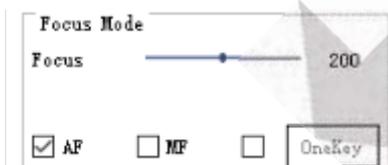
## ζ. 1. ζ Export

Click  button to export measurement data, manually set the storage path, the default format is .csv(we recommend to use WPS to open the file).



## ζ. 2 Camera Setting

### ζ. 2.1 Focus Mode



When clicking "AF", the focus mode switches to auto-focus, and then the camera can automatically focus the image within the focus range. When checking “MF”, switch to manual focus mode, where you can manually focus by dragging the focus value drag bar (0~400 adjustable), or modify the focus value by clicking the focus value drag bar and then press up and down button on keyboard. After checking "one key", the phase will automatically focus once. If you need to focus again, click the "One key" button again.

## ζ. 2. 2 Focus Area



FocusArea

AreaSize

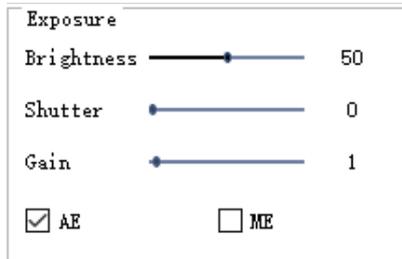
Horizontal  0

Vertical  0

FocusFrame  ClickFocus

Area size can select the size of the focus box; pull the progress bar, adjust the horizontal or vertical position of the focus frame; Focus frame: in automatic focus mode, select "focus box" in the image display area; in automatic focus mode, select "Click Focus" to click the screen with the mouse.

## ζ. 2. 3 Exposure



Exposure

Brightness  50

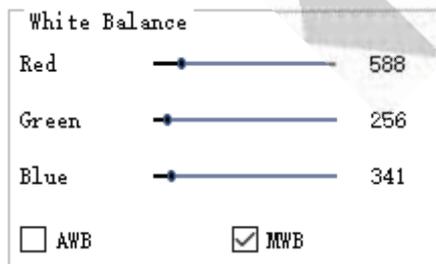
Shutter  0

Gain  1

AE  ME

When checking "AE", pull the "brightness" progress bar to adjust the brightness; when checking "ME", pull the "gain" progress bar to adjust the gain, and pull the "shutter" progress bar to adjust the shutter.

## ζ. 2. 4 White Balance



White Balance

Red  588

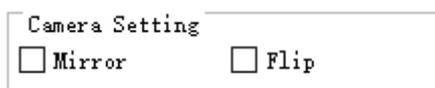
Green  256

Blue  341

AWB  MWB

When checking "AWB", realize automatic white balance under different color temperature conditions; when checking "MWB", pull "red, green and blue" progress bar to adjust "red, green and blue" color value.

## ζ. 2. 5 Camera Setting



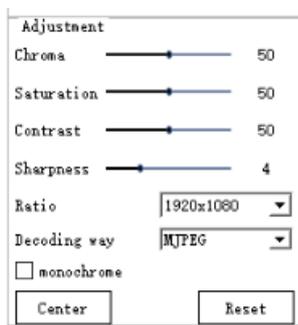
Camera Setting

Mirror  Flip

Mirror: The video on the screen is located in the opposite vertical direction;

Flip: The horizontal direction of the video on the screen is opposite to the actual direction.

## §. 2. § Adjustment



Chroma: 1-100 value adjustable, reset default value 50;

Saturation: 1-255 value adjustable, reset default value 128;

Contrast: 1-100 value adjustable, reset default value 50;

Sharpness: 0-15 value is adjustable, reset the default value of 4;

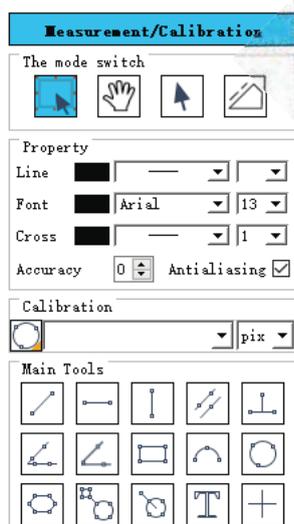
Ratio: 1920\*1080 and 3840\*2160 are optional;

Decoding way: MJPEG;

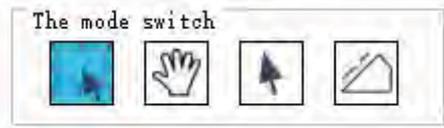
Monochrome: image display area black and white / color switch;

Reset: Set all the camera parameter settings to the default initial values.

## §. 3 Measurement/Calibration



## ζ. 3. 1 The Mode Switch



### ζ. 3. 1. 1 Focus / Measure Mode Switch

Click the  icon to switch focus mode and measurement mode, it's focus mode when the blue icon is lit, and when the icon is clicked in gray, it is in measurement mode, and the autofocus mode cannot be selected.

### ζ. 3. 1. 2 Hand

When the image display area is a picture, click the "Hand" tool  and hold the left mouse button and drag the image in the image display area to view the image areathat is not fully displayed .

### ζ. 3. 1. 3 Measuring Object Select

1. Left-click the Measuring Object Select tool  .
2. Select a single element: you can click to select a measurement data in the image display area. The color of the selected individual element becomes the reverse color of the set color, which shows the blue shadow of the metadata in the corresponding data list.



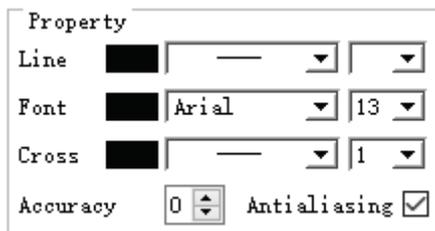
3. Select multiple elements: you can select multiple measurement data with the mouse box in the image display area, change the selected colors of the multiple elements to the reverse color of the setting color, and display the gray shadow of the metadata in the corresponding data list.



### ζ. 3. 1. 4 Edge Detection

Click the "Edge Detection"  icon, and then the icon turns blue . When measuring the picture, realize automatic edge finding

### ζ. 3. 2 Property



The property interface can set some parameters of straight lines, fonts, cross lines, as well as the decimal point specific precision to several bits, anti-aliasing switch.

Click the color setting bar on the right side of the "line" to modify the color of the drawing line during the measurement, click the straight line form drop-down box to modify the form of the straight line, and click the straight line thickness setting drop-down box to set the thickness of the straight line.

Click the Color Settings bar on the right of Font. You can modify the color of all element fonts, click the font style drop-down box to modify the font style, and click the font font size setting drop-down box to set the font size.

Click the color setting bar to the right of the "cross", you can modify the color of the cross, click the cross form drop-down box to modify the form of the cross, click the cross thickness setting drop-down box to set the thickness of the cross.

The accuracy of the decimal points is tunable from 0-4.

After the anti-aliasing check, all the line segments can become smoother without appearing

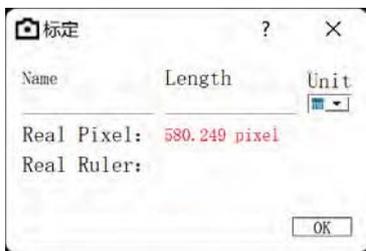
serrated

### §. 3. 3 Calibration



1. Click the yellow triangle in the lower right corner of the calibration tool to select the straight line calibration  or the circle calibration ;

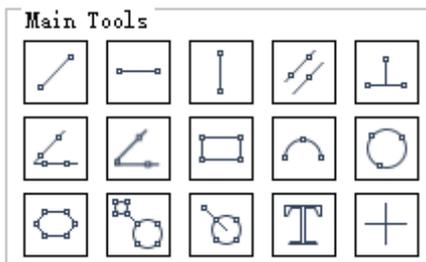
2. Activate the toolbar calibration tool, and drag the marking line with the calibration scale;  
3. Input the lens ratio value, the actual length between the engraved lines, select the unit, and complete the calibration;



Delete calibration: Click the drop-down calibration list, select the calibration group to delete and click the red circle to delete the group calibration.



### §. 3. 4 Main Tools



1. The measurement tool contains a variety of line trace measurements, and the appropriate calibration and unit can be selected first according to the specific application.



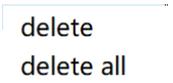
2. Select the appropriate tool for measurement. When measuring, only select the measurement anchor point with the mouse point, and then the measurement data is displayed in the measurement data list area



3. After the measurement is completed, the data in the measurement data list can be exported. Click the export button , and the data will be automatically stored in the csv file, the user can choose to save the path and modify the file name. Double-click the measurement drawing line to set its properties, including the width and color.



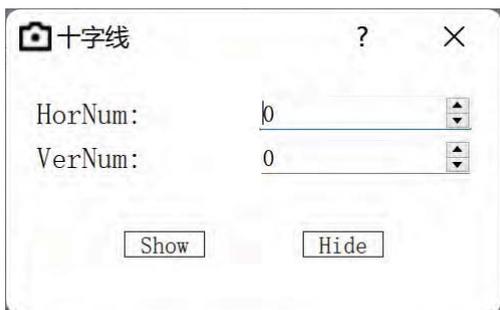
4. Delete measurement data: in the measurement data list, select to delete data, click the right mouse button, and will prompt to delete a set of data, or delete all data, and select as needed.



Text: Click the "Text" icon  to annotate the measured content, and long press the right mouse button to drag the arrow and the annotation content to change their position.

Cross: Click " cross icon , open the cross setting interface, you can set the number of

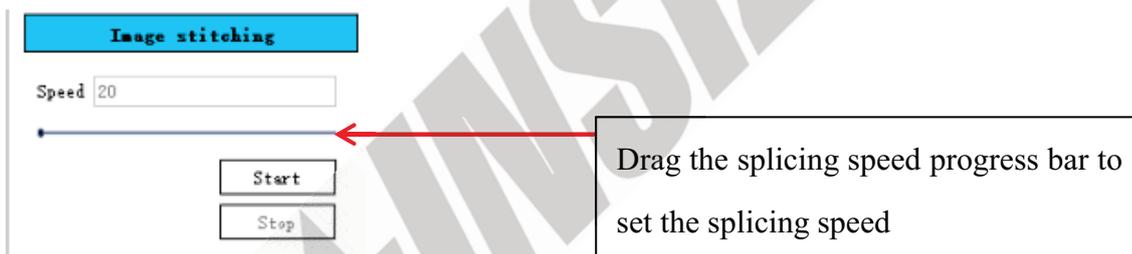
horizontal and vertical cross. Click the "Show" and "hide" icon to display and hide the cross.



## §. 4 Image Stitching

1. First, set the white balance and exposure to the manual exposure mode, adjust the brightness of the light source, so that the exposure adjustment to the appropriate value, to avoid overexposure in the process of splicing.

2. Select splicing, adjust the splicing speed, speed can choose 20-500; click "Start" splicing image, keep a uniform moving speed, not too fast, otherwise the composite image will be blurred, the direction of the image should basically keep horizontal and vertical movement, otherwise the effect is not very good, click "Stop" to complete the image stitching.



## §. 5 EDF



This function can replace the clearer part of the image with different focal planes with the unclear part, so as to get a clear picture with a large depth of field. In the process of image fusion,

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the direction of the measured object cannot be moved, so as to avoid the phenomenon of dislocation after image synthesis.

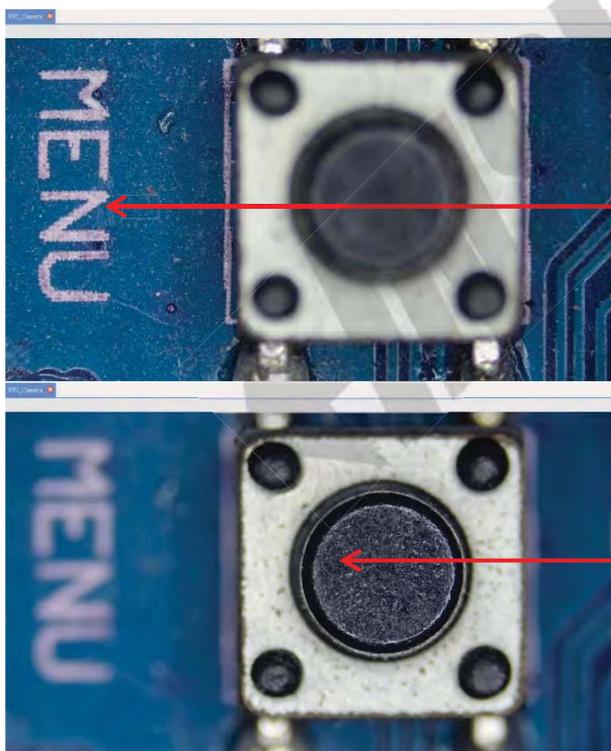
1. Click the "Depth of Field synthesis" tool, click different focal planes in the image display area to set the start position and end position respectively;

2. Set the grasping interval, the larger the grasping interval value, the less the number of shots;

3. Set the grab waiting interval in ms;

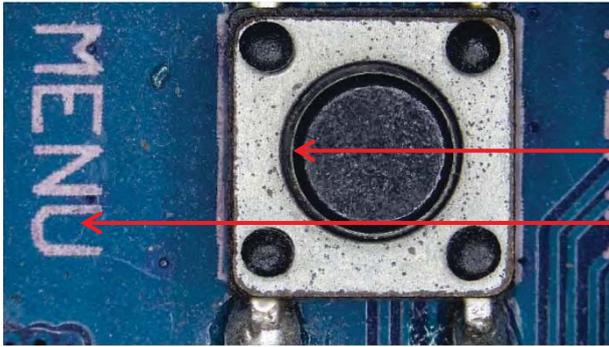
4. Click Start. When the value of the current progress is consistent with the value of the captured number of pictures, the interface shows a picture is prompted, and the depth of field synthesis is completed.

5. Save the synthesized picture: the picture shows the synthesized picture, and then click the "Save" icon  in the menu, specify the path and name, click to determine.



The starting position is clear to the surface

Clear surface of the termination position



Large depth of field clear picture

Operating the depth of field synthesis function, the focusing mode will automatically switch to manual mode, and the image display area will display as the current synthesized image: such as Tab 2 \*, click "UVC \_ Camera" to switch to the real-time video display, and then click "Configuration Management" to set the focusing mode.



Note: The description is for reference only, please refer to the actual situation.