

Supereyes

Software V 3.3W User Manual

Note: This software only works on Windows Operating System.

Contents

1. Installation	3
2. Start microscope	3
3. Language	4
4. Basic setting	4
4.1. Device source	4
4.2. Device setting.....	4
4.3. Video format setting.....	5
5. Photo.....	6
5.1. Photo capture/Shoot	6
5.2. Save photos	7
5.3. Preview photos	7
6. Video.....	8
6.1. Video record	8
6.2. Save videos.....	9
6.3. Setting frame rate/frame frequency (FPS).....	10
6.4. Play video	10
7. Add Text.....	11
8. Measurement.....	13
8.1. Measurement calibration.....	13
8.2. Measure length	14
8.3. Measure arc	14
8.4. Measure angle.....	15
8.5. Marker.....	16
9. Paint	18
10. Option setting	18
11. Output.....	23
12. Display Performance	23
13. Measure image	23
14. Disclaimers	23

Disclaimers

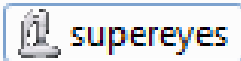
The measurement value worked out by the software is only for reference; it may not be 100% correct. The contents of this brochure are based on the existing product specifications. In order to improve products or other reasons, Maker D & F Corp. will not be in charge of any errors which appear in this document. Meanwhile, D & F Corp. are not responsible for the update contents of this document and information.

1. Installation

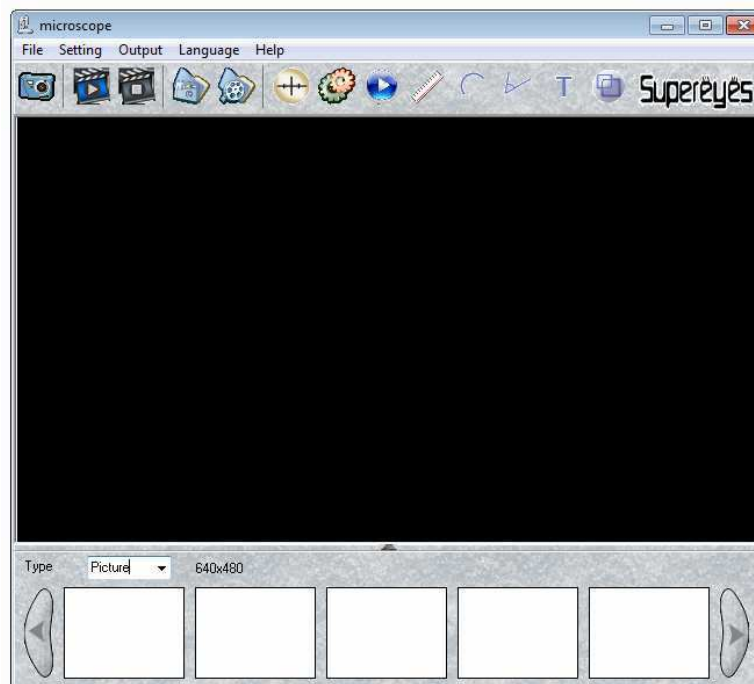
- A. Copy **Setup** and **Supereyes 3.3w.rar** from the CD to a folder on your computer.
- B. Extract Setup and install it. After installing finished, restart the computer.
- C. Extract **Supereyes 3.3w.rar** to the folder you prefer to install Supereyes software.
- D. If needed, create a shortcut of **Supereyes.exe** to the desktop, which is inside the **Supereyes 3.3.rar**.

2. Start microscope

After connecting the device (USB receiver) to the computer, please open **Supereyes.exe**. By clicking the



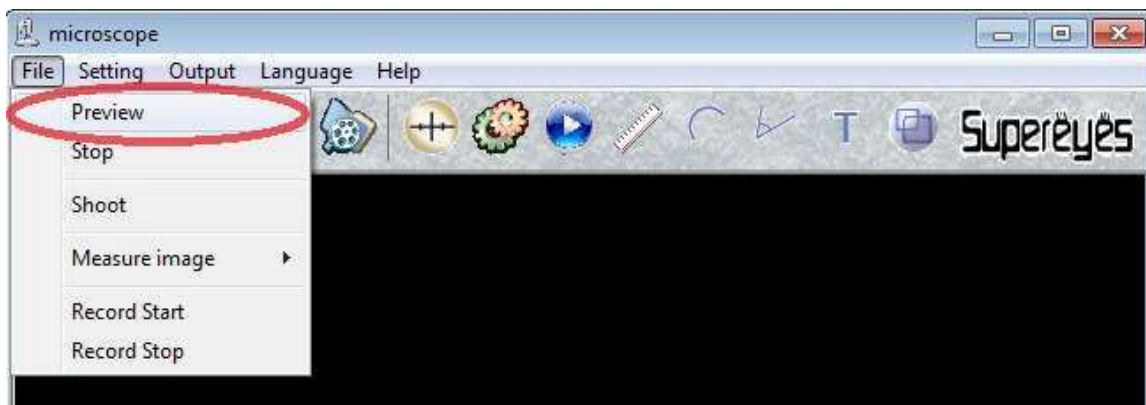
icon and you will see the following screen pop up.



If your product is B004, so plug the transmitter into microscope, ensure that the light is on, if not, so you need charge first;

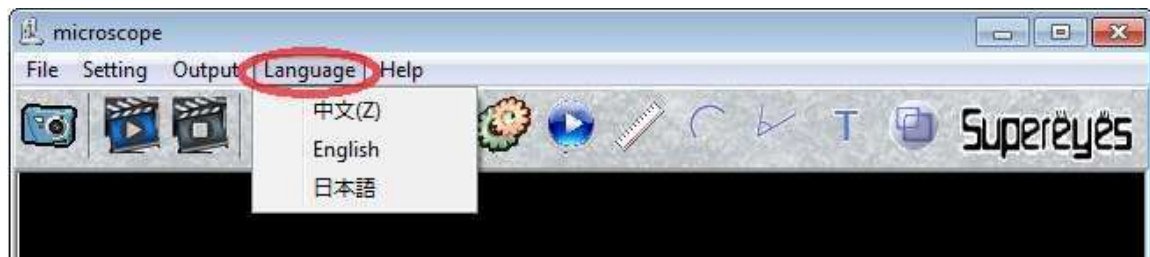
If your product is B006, switch on, test the LED light to confirm the power is enough.

Then select **Preview** to open the device. Now you should see the image taken by the device. If the image is not clear, please adjust LED light and focal length.



3. Language

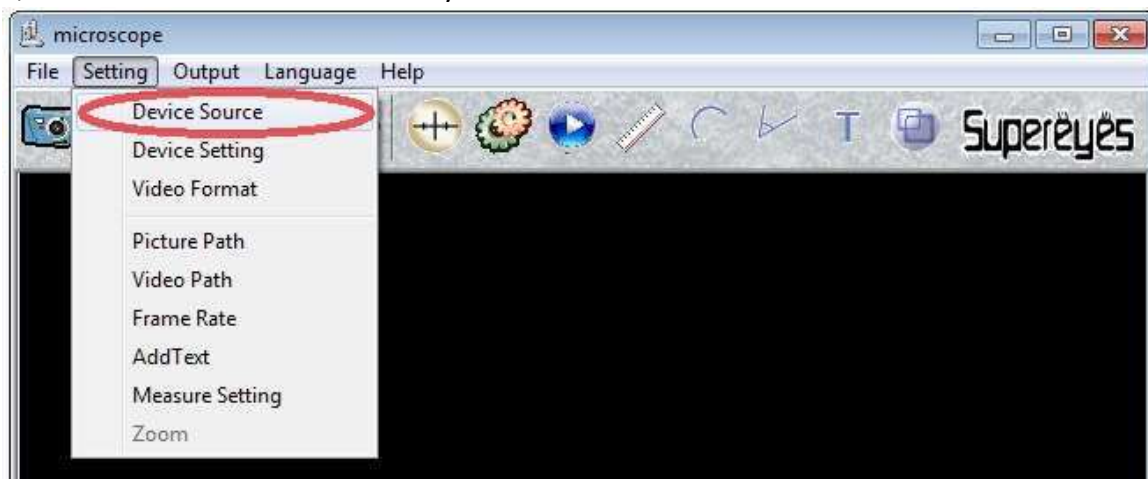
On Screen display language could be changed by the following operation:
Click **Language**, and then choose the one you prefer.



4. Basic setting

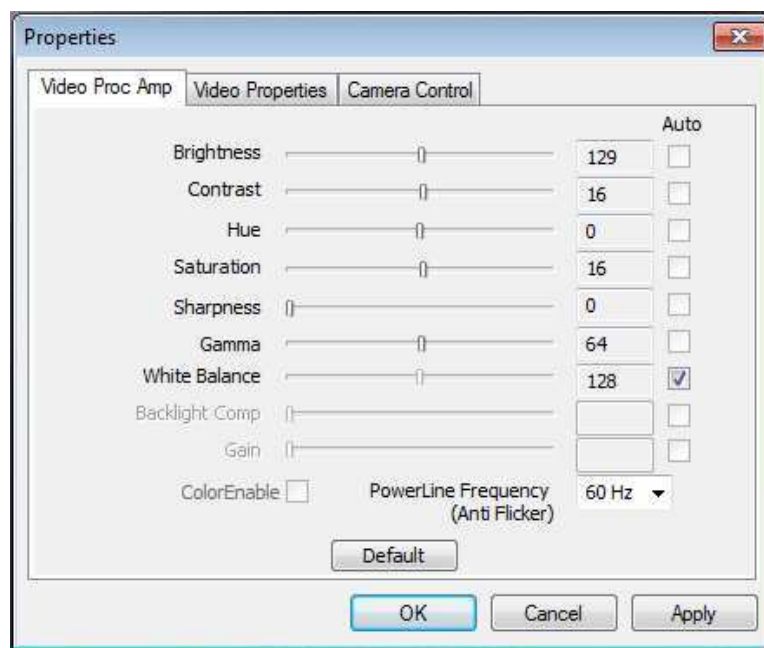
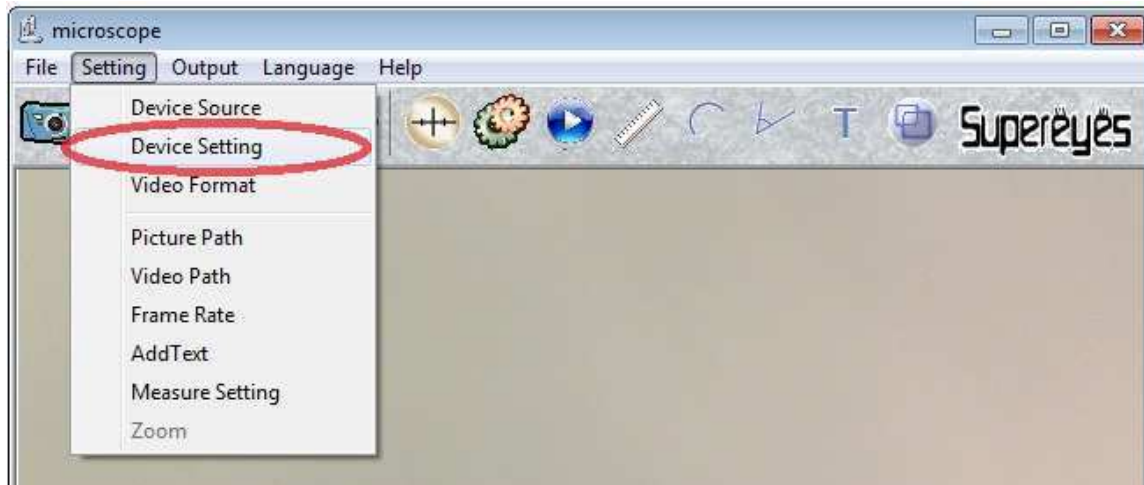
4.1. Device source

If multiple camera devices are connected to the computer at the same time, please click the **Device Source**, and then select the device that you need.



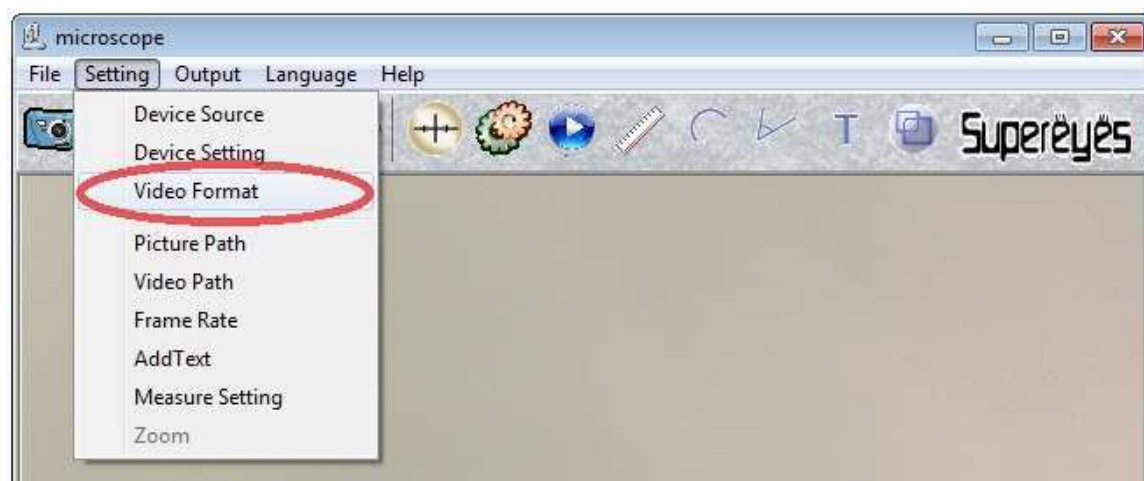
4.2. Device setting

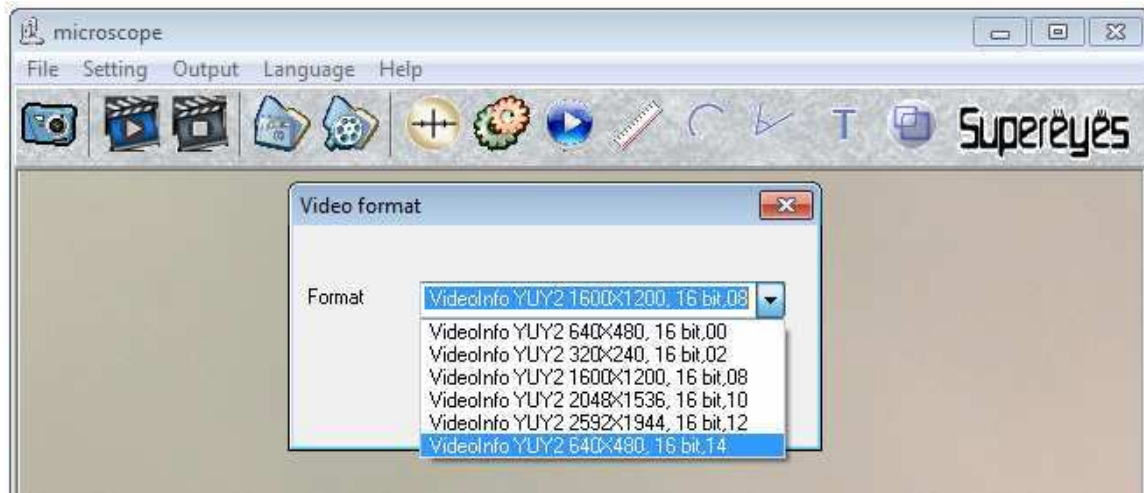
Device setting is to control brightness, contrast, saturation and etc.
By clicking **Device setting**, a **Properties** window will pop up.



4.3. Video format setting

Video resolution can be changed by following action.





5. Photo

5.1. Photo capture/Shoot

To take a photo, please follow any of the options listed below:

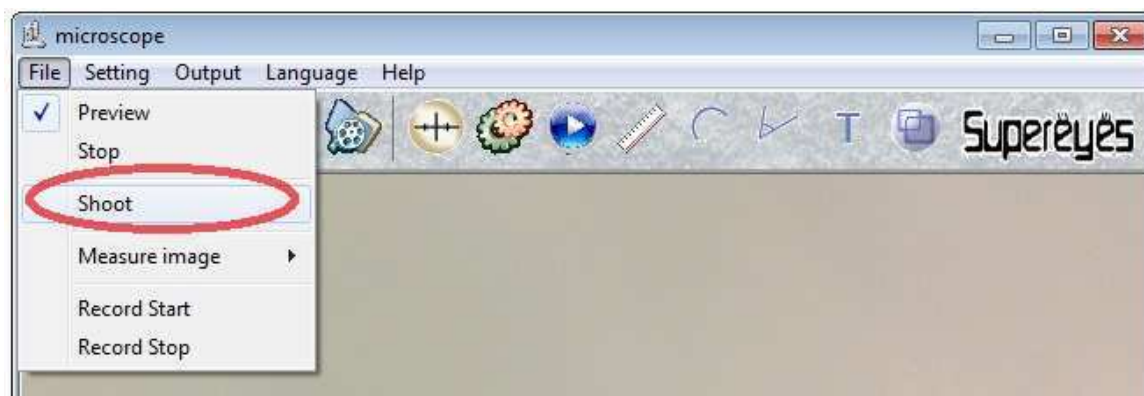
- A. Clicks the shoot button on the screen



- B. Clicks the small button on the side of the LED dimmer switch



- C. Choose from the menu bar **File** and then click **Shoot**



After a photo has been taken, it will be auto saved and showed in **Type: Picture**

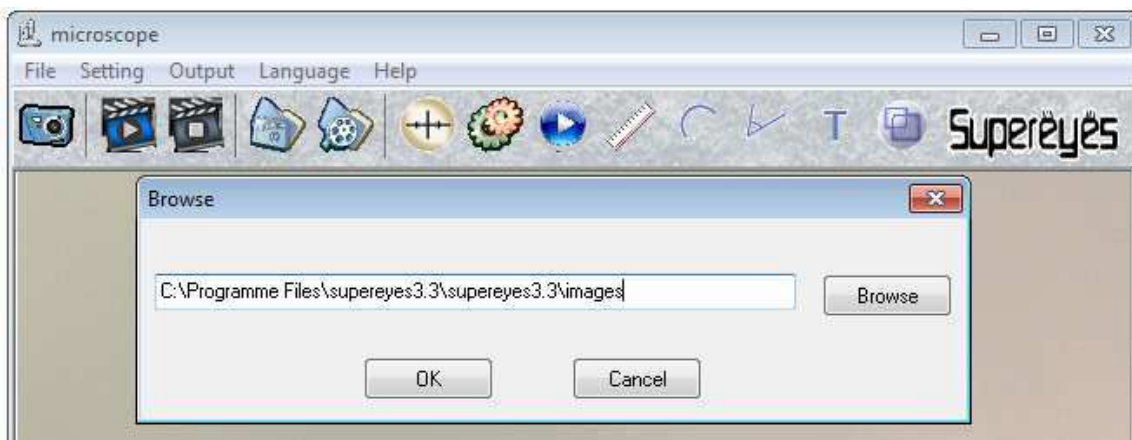


5.2. Save photos

Please click **Setting**, and then **Picture Path**. A **Browse** window will pop up.



In the dialog, please enter the folder you prefer to save photos.



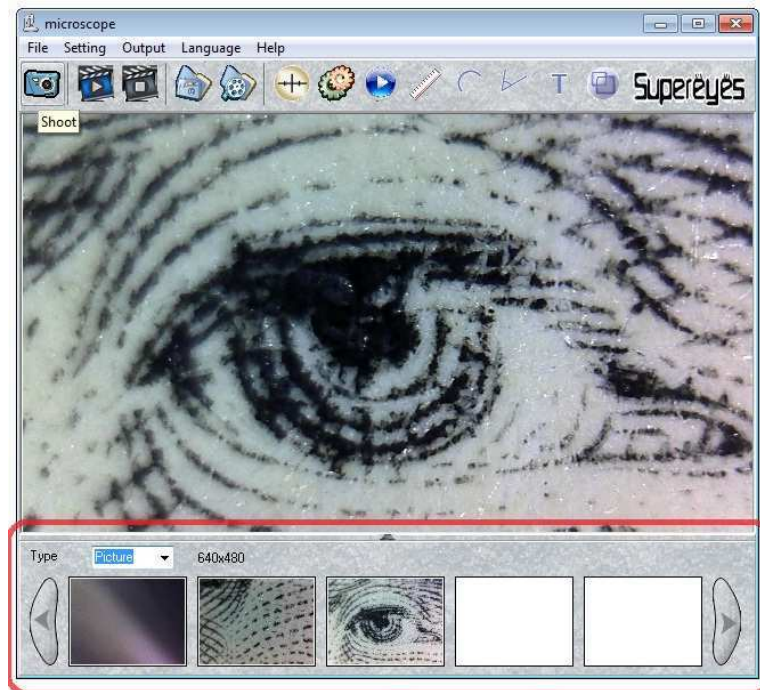
5.3. Preview photos

Preview stored photos by either of the following ways

- A. Open photo files in the folder, which has been set up in the **Picture Path** before.



B. double click the picture in the **Type: Picture**

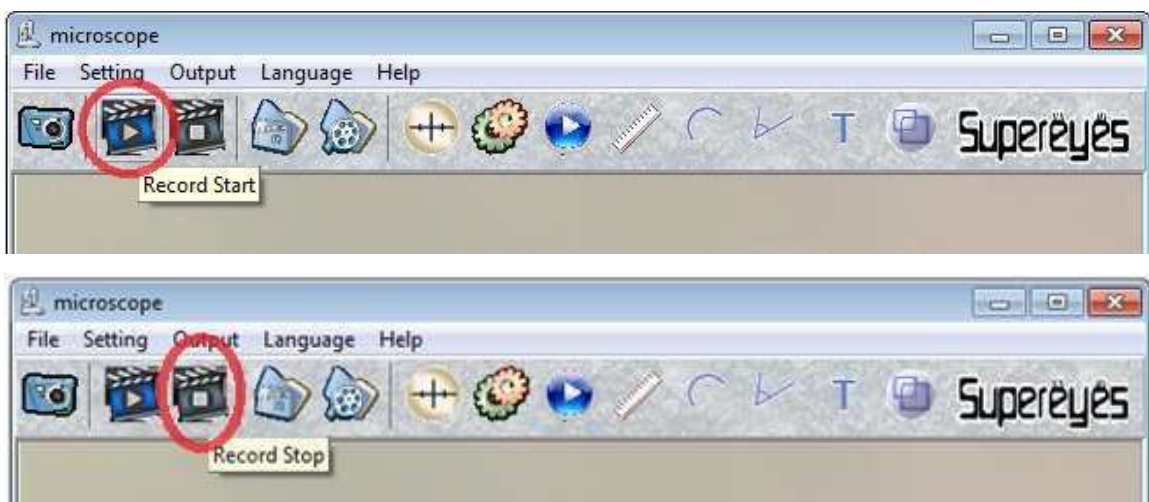


6. Video

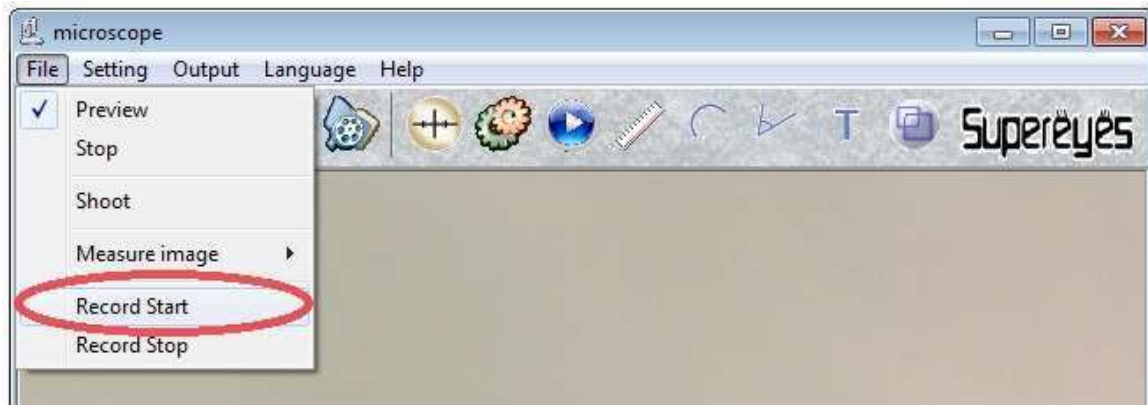
6.1. Video record

Start/Stop to record video by either of the following ways:

A. Click the video **Record Start/Stop** button

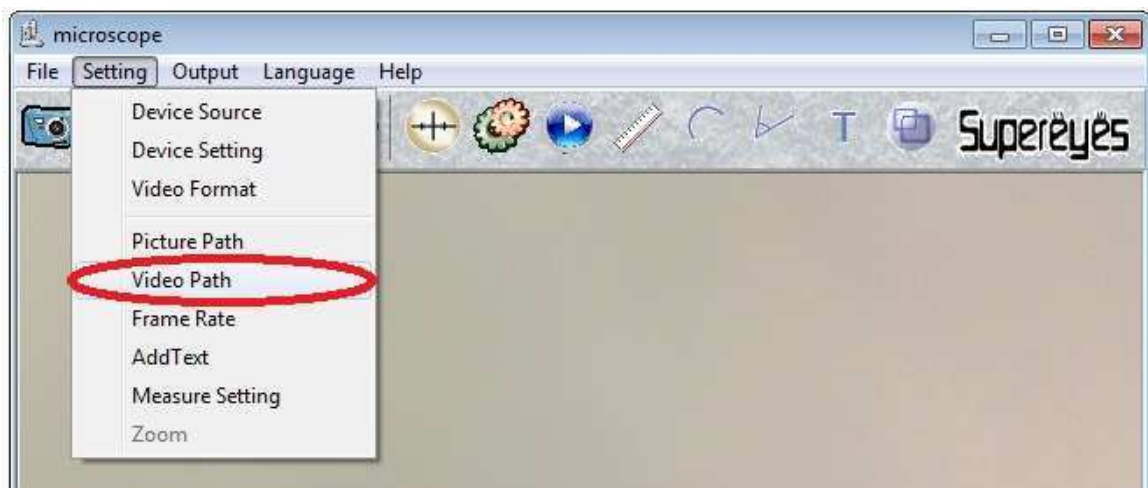


B. Choose from the menu bar **File** and then click **Record Start/Stop**



6.2. Save videos

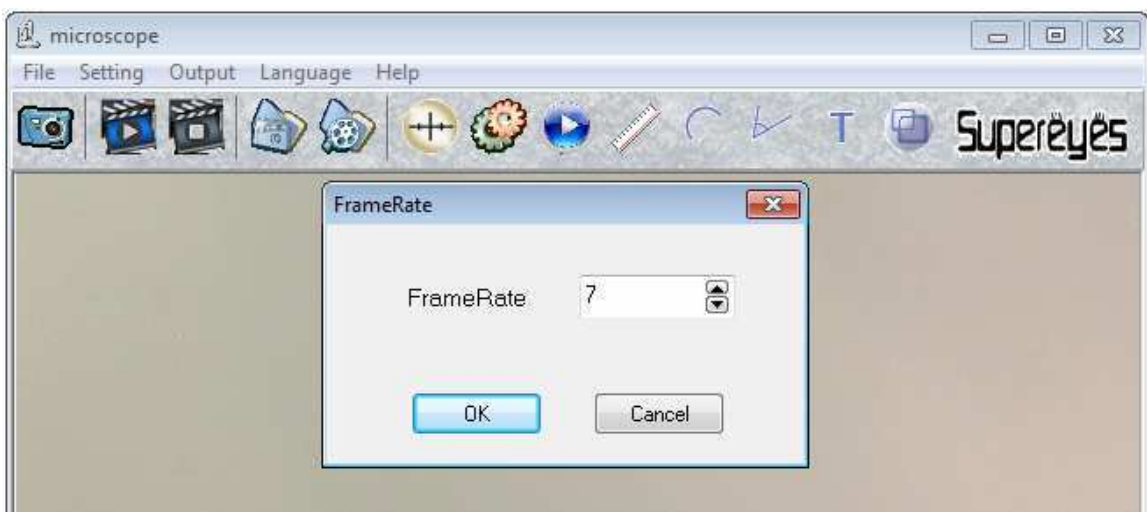
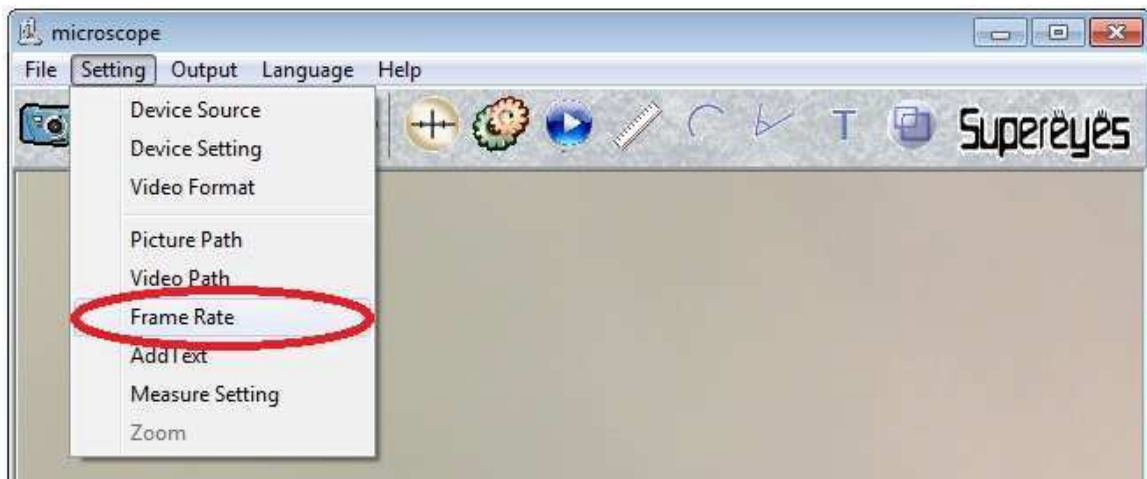
Please follow the steps listed below to choose the folders you prefer to save videos.



In the dialog, please enter the folder you prefer to save videos.



6.3. Setting frame rate/frame frequency (FPS)



6.4. Play video

Start to play video by any of the following ways:

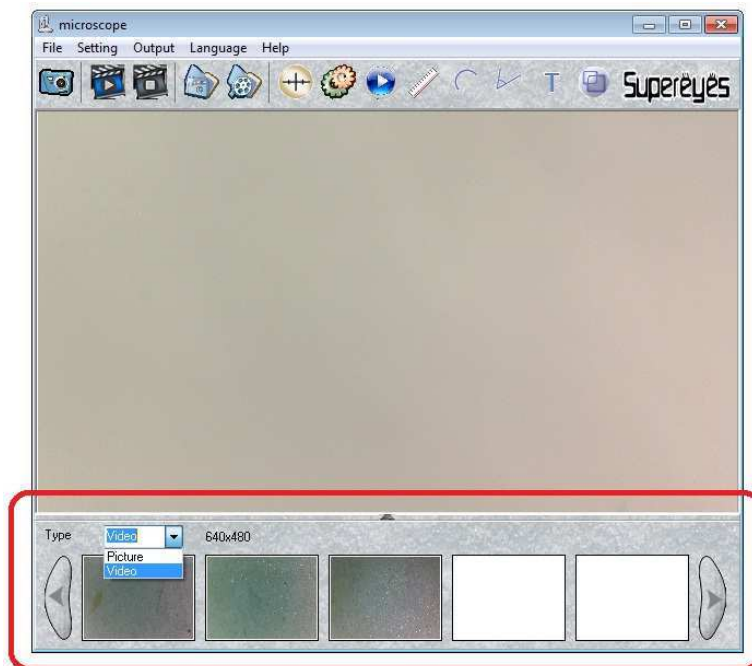
- A. Click **Player** to play (only for DZC format video)



- B. Open video files in the folder, which has been set up in the **Video Path** before.
 Notice: by this way, both WMV and DZC format videos will be found.



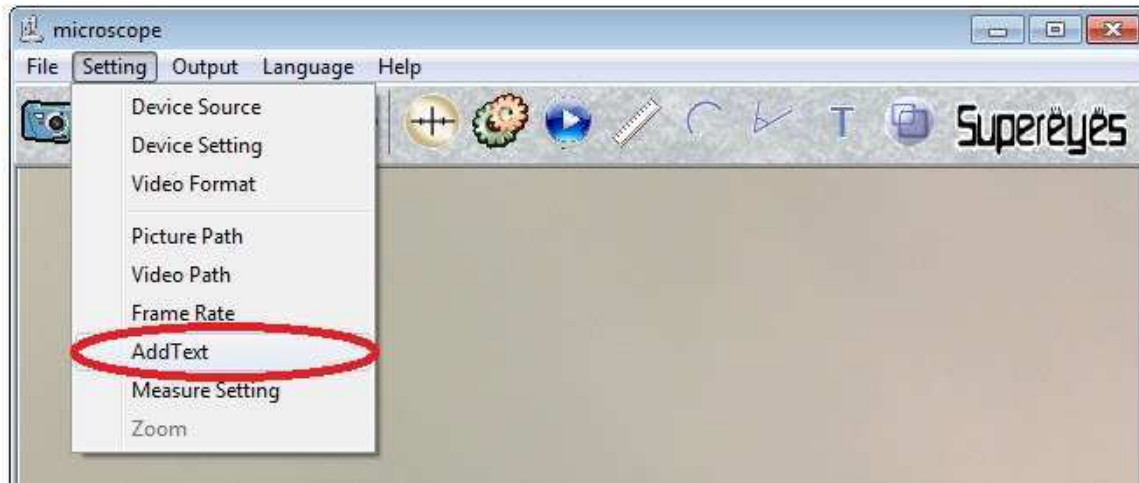
- C. Double click video on the **Type video** at the bottom of the screen
 Notice: only DZC format video will display in this column.



7. Add Text

Add text on photo by either of the following ways:

- A. Choose from the menu bar **Setting** and then click **Add Text**



B. Click the **Add Text** button



After clicking **Add Text**:

- 1) Move mouse to the place that you want to add text, and then left-click mouse once. An **Input Text** window will pop up. Please enter and edit text in the dialog.



- 2) Then, click **OK**. The text will display on the screen.



Notice: To add other texts, please repeat step 1) and 2)

8. Measurement

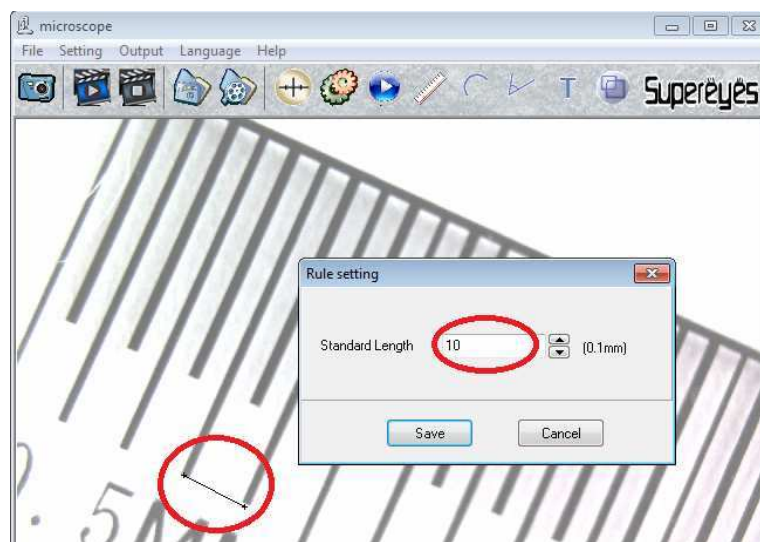
8.1. Measurement calibration

Please follow the steps to make measurement calibration,

- (1) Put a precision ruler under the microscope, after fix magnification factor and focal length.
- (2) Choose from the menu bar **Setting** and then click **Measure setting**. The mouse will change to cross.



- (3) Draw a 1 mm line (or other length you preferred) on the screen, according to the ruler:
Left click mouse once to choose a start point, and drag mouse to an end point. Then left click mouse again.
- (4) A **Rule setting** window will pop up.
- (5) The standard length is the real length of the line drawn above.
- (6) Enter the ration number in the dialog.
- (7) For example, if a 1 mm line was drawn, the standard length is **10** X 0.1 mm = 1mm. Number 10 should be entered in the dialog.
- (8) If a 2 mm line was drawn, the standard length is **20** X 0.2 mm = 2mm. Number 20 should be entered in the dialog.



Notice: every time the focus changed, the ruler needs to be calibrated.

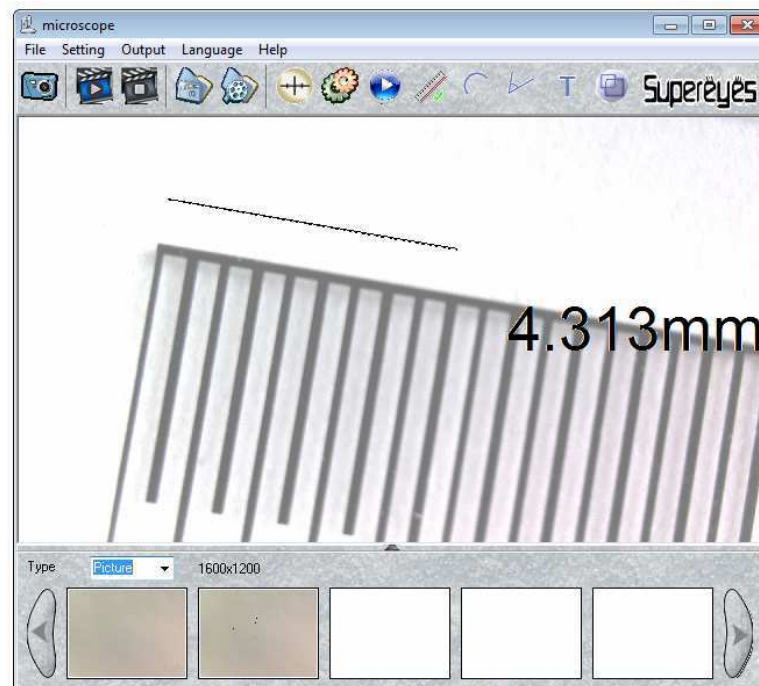
8.2. Measure lengthⁱ

Please follow the steps to measure length:

(1) Click the **Ruler** button.



(2) Left click mouse once to choose a start point, and drag mouse to an end point. Then left click mouse again.








Note: After measurement, please click **Ruler** button  again to go back to photo preview.

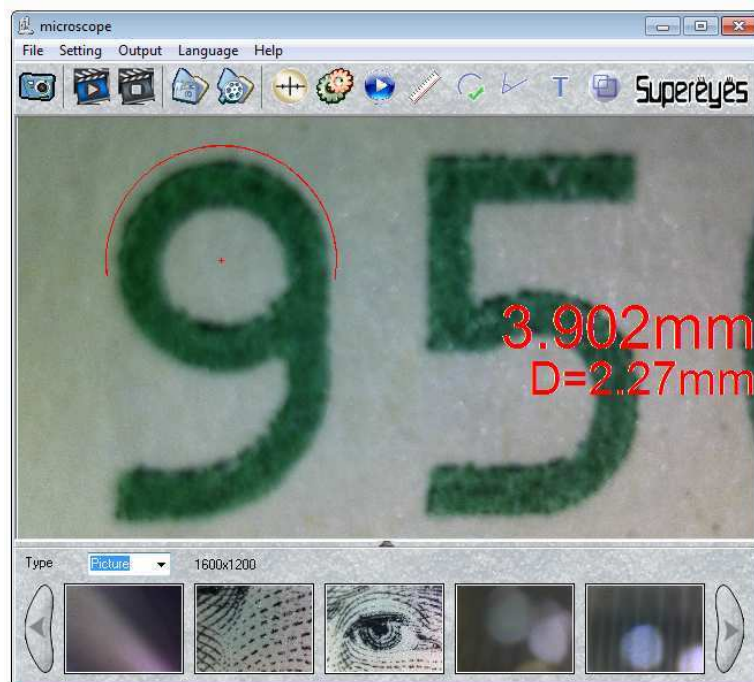
8.3. Measure arc

(1) Click the **arc** button.



ⁱ By clicking any of the buttons    , the photo will be fixed. After measurement, please click  to save photos. It is the same as photo shoot.

- (2) Left click mouse at the beginning of the arc, and drag mouse to any point on the arc. Then left click mouse.
- (3) Move mouse to make the line match the arc, and left click mouse at the end of the arc. Then, the length of the arc and diameter of the arc will display on the screen.



The image shows letters on a US dollar

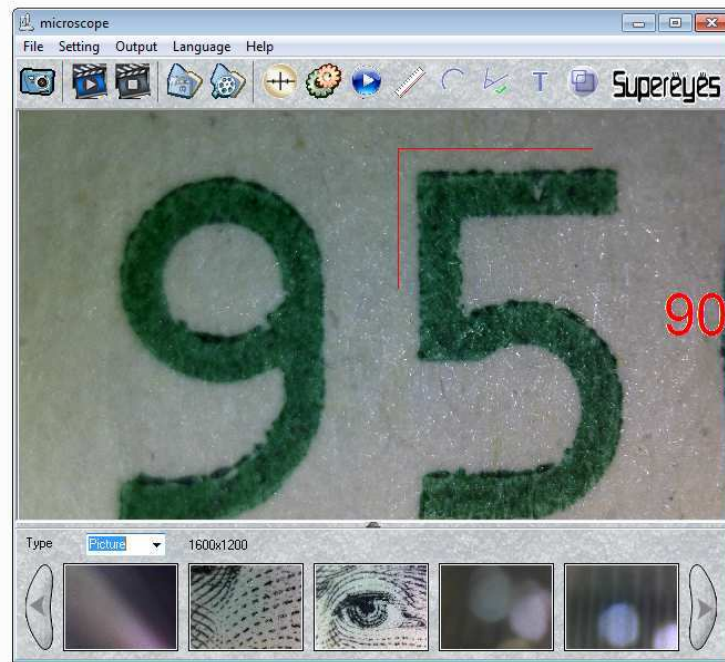
Note: After measurement, please click **Arc** button again to go back to photo preview.

8.4. Measure angle

- (1) Click the **angle** button.



- (2) Left click mouse to choose a start point of an angle, draw the line to another point and then left click mouse again to create on side of an angle.
- (3) Then pull the mouse to any point of the other side of the angle, left click mouse again. The degree of the angle will display.



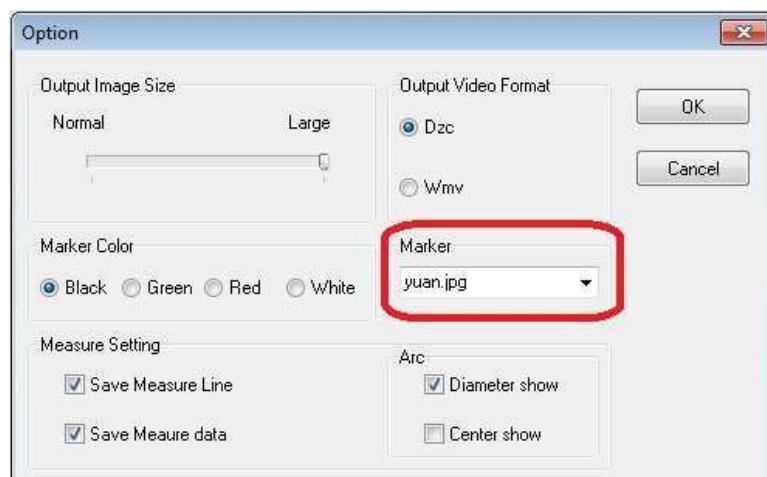
The image shows letters on a US dollar

Note: After measurement, please click **angle** button again to go back to photo preview.

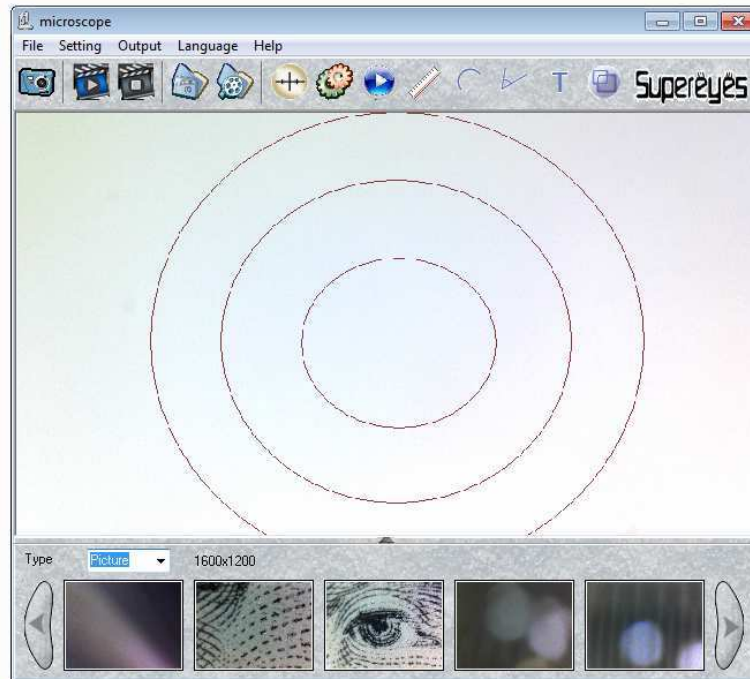
8.5. Marker

Marker is an advanced function for fast and simple test, such as PCB angle or arc inspection. Any desired shape could be stored in JPG or BMP file in advance and copied to folder **Marker**, which is at the same folder of **Supereyes.exe**.

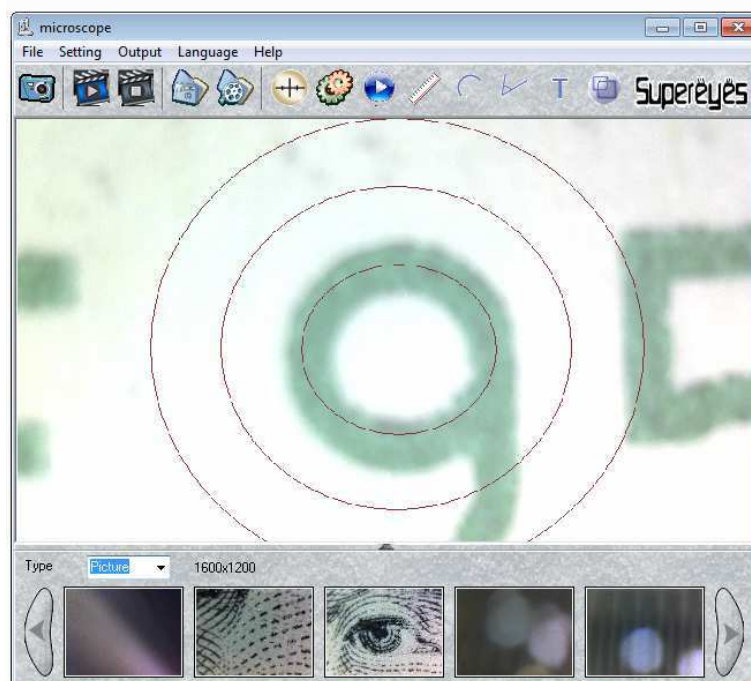
To change marker, select **Marker** dialog in **Option**, choose the one you preferred. For more detailed information about **Option**, please refer to Chapter **Option**.



To open marker, click **Marker** button. Then, the prestored marker will display.



Marker Sample

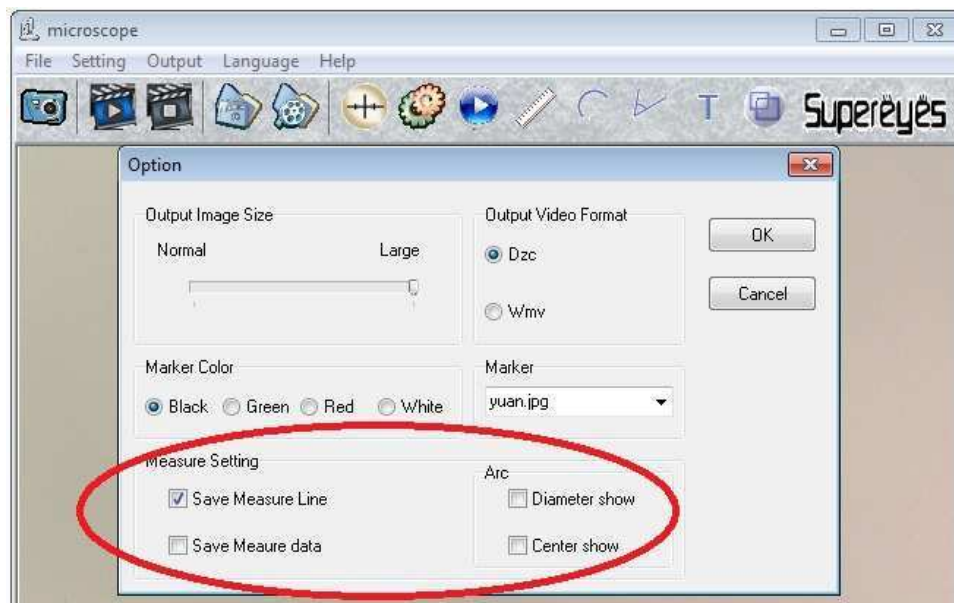
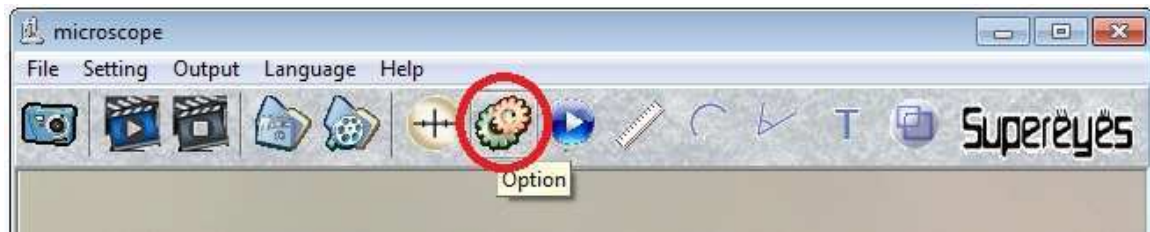


Marker Sample on US dollar

After measure, please click **Marker** button again to go back to photo preview.

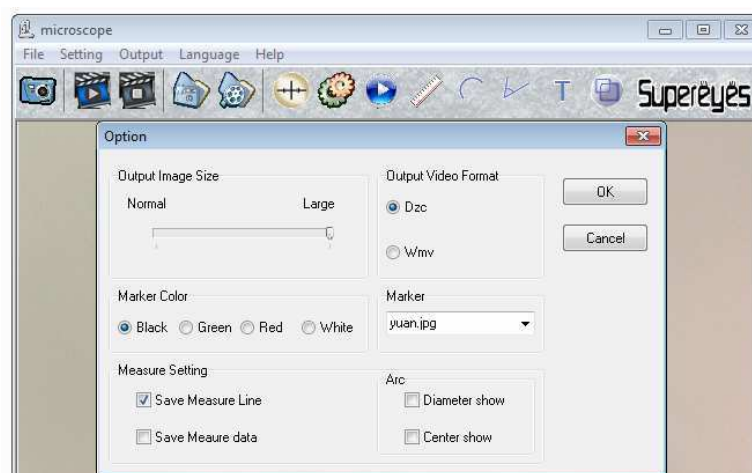
9. Paint

If you only want to draw lines, arc, angle on the photo, please unselect **Save measure data**, and **Diameter show** in **Option**.

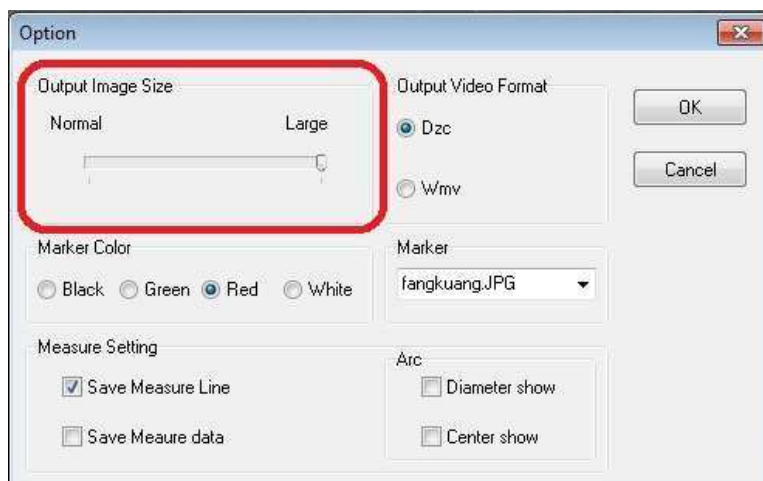


10. Option setting

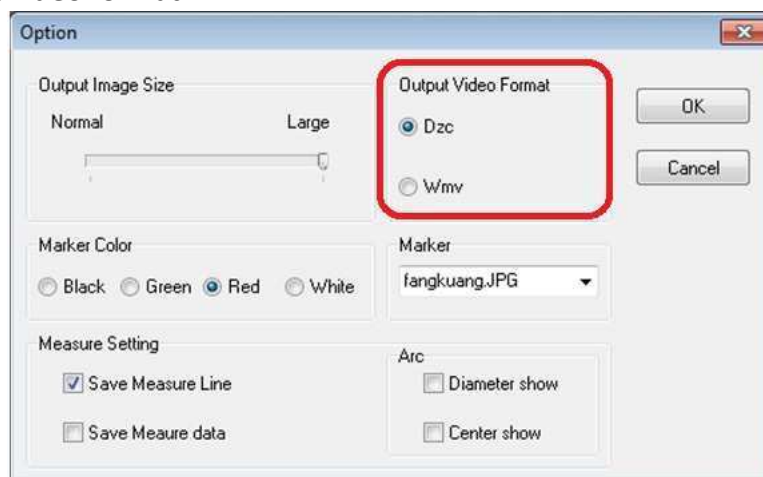
Click the **option** button. The window of **option** will pop up. In this window, you can do:



(1) Select the photo and output the size



(2) Change output video format

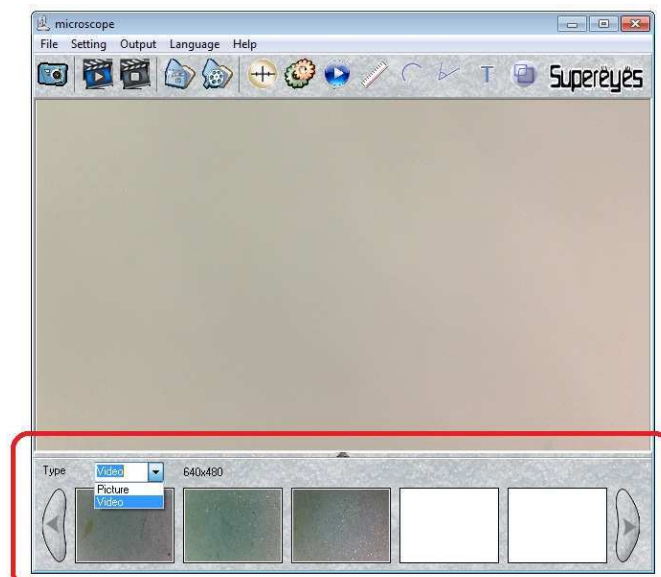


Supereyes software provides two video formats:

- A. WMV (general format) can be played by Windows Media Player.
- B. DZC (professional high compression ratio format) can only play by Supereyes software and it provides smaller volume than WMV.

Notice:

- ◆ Only DZC videos could be found at the **Video** Column at the bottom of the screen.



- ◆ To open WMV videos, please open **video folder**



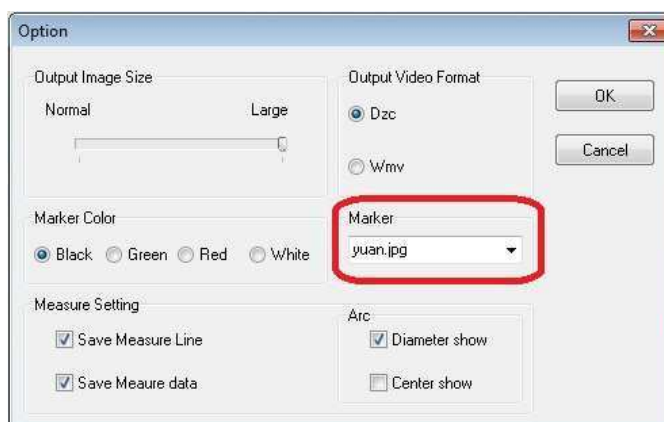
(3) Change marker color

To change the color of the ruler, angle, arc or text, please choose the color you prefer by click it.

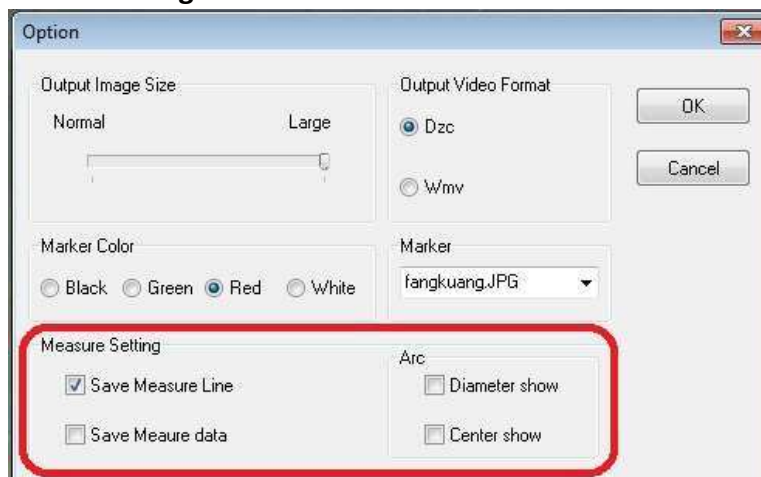


(4) Change marker

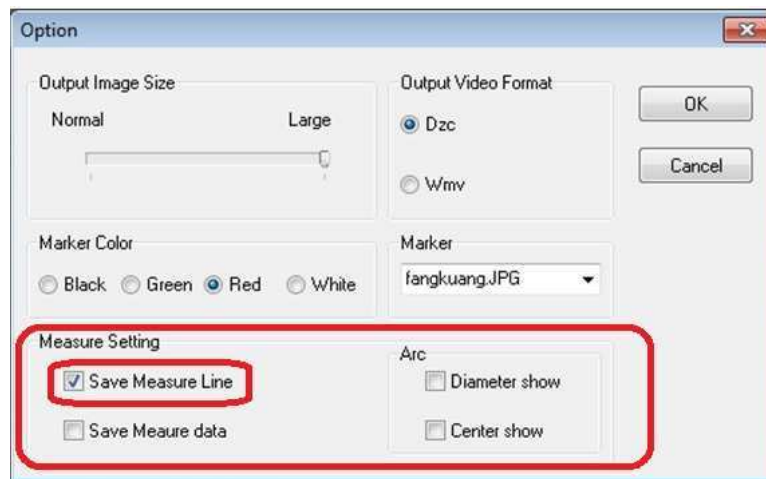
To change marker, select **Marker** dialog in **Option**, choose the one you preferred. For more information about Marker, please refer to **8.5 Marker**.



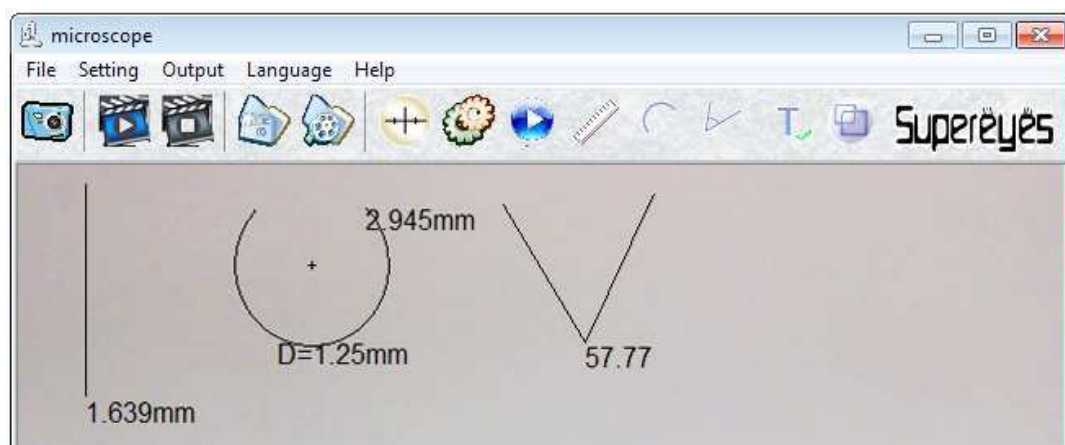
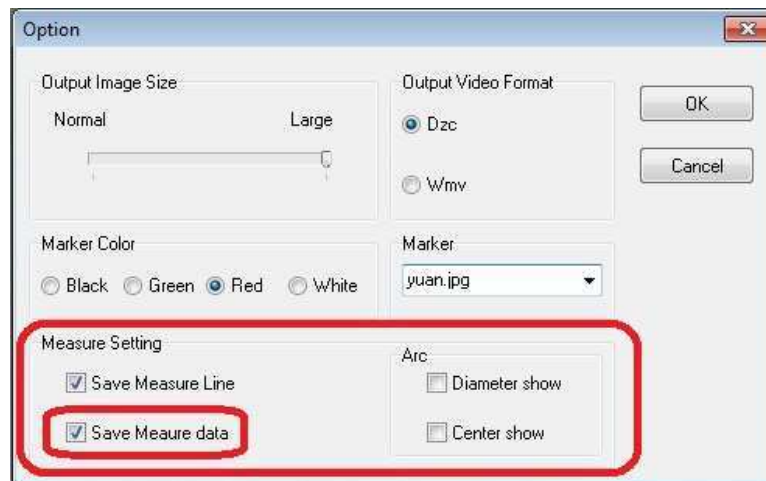
(5) Change measurement setting



A. Select **Save Measure line**, will only display line you draw on photo.

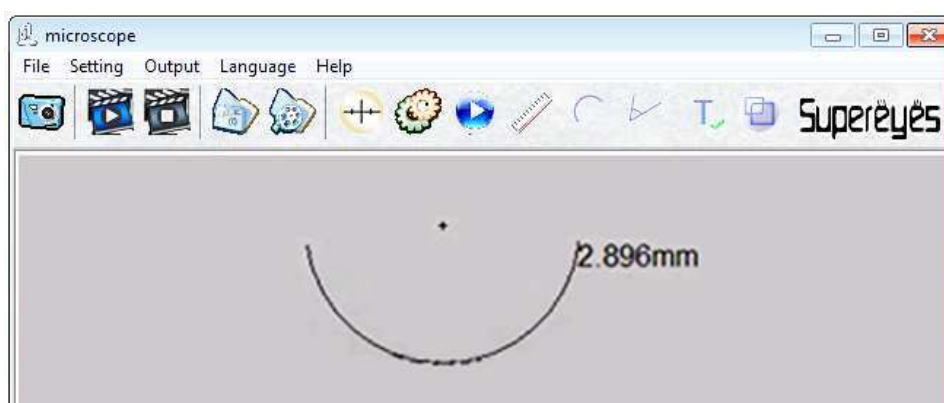
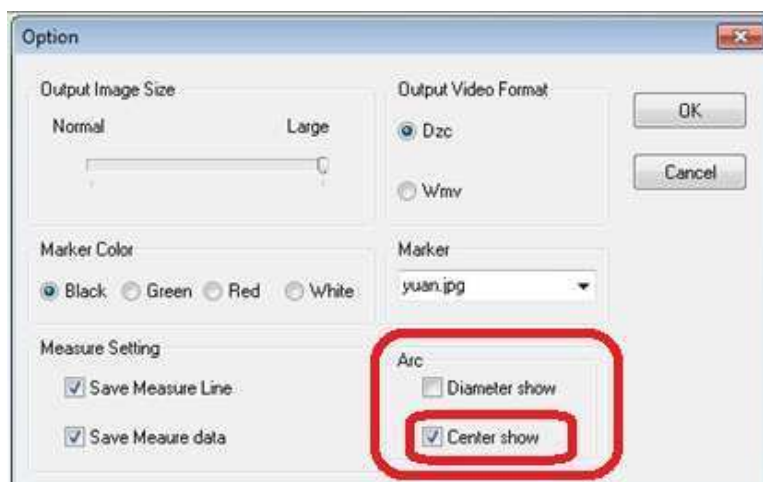


B. Select **Save Measure data**, can display the saved measurement data on photo.

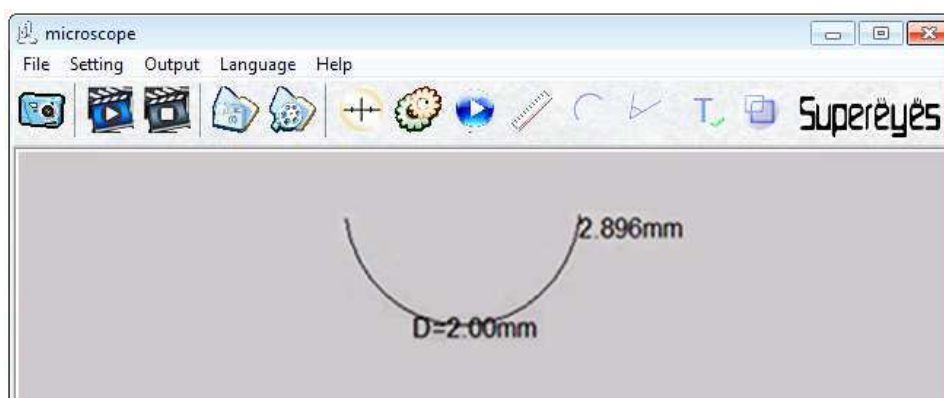
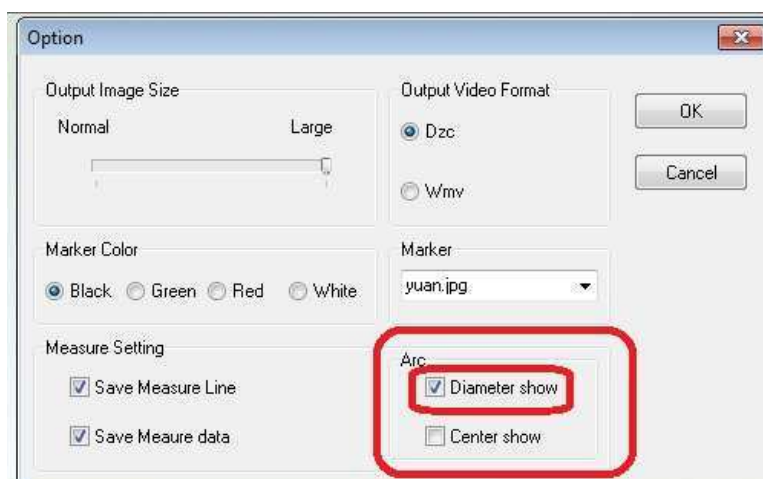


(6) Arc setting

A. Select the Center show and save, the center of the circle will display on the screen.



B. Select the **Diameter show** and save, the diameter of the circle or arc will display on the screen.



11. Output

To print the photos, please click **Output**, and then **Print**.



12. Display Performance

By clicking **Toggle**, the screen display could be switched between full screen and the highest pixel model.

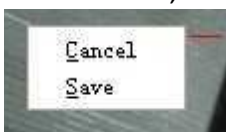


13. Measure image

To make measurement on any image, please click **File, Measure image**, and then **Open**.

After clicking open, a dialog will pop up. Please choose the image you prefer in the dialog.

After measurement, click **Save** or **Cancel** to save or cancel measuring activities. Or right click mouse,

select  will appear.

