

VIEWTER Plus Application Software

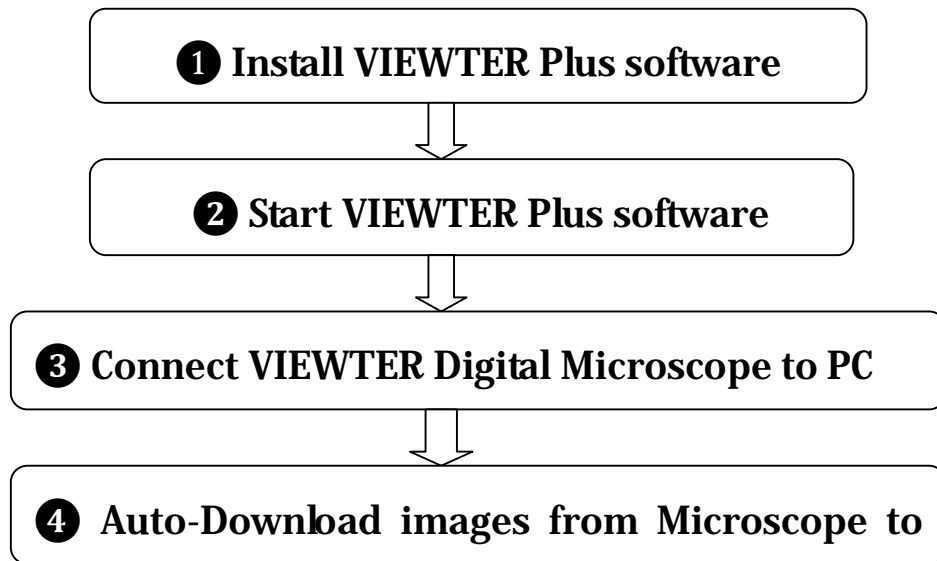
User Guide

Welcome

Thank you for purchasing VIEWTER Portable Digital Microscope!

This guide explains how to use the software bundled with your VIEWTER Digital Microscope. Please read it carefully before using.

Steps of downloading images from VIEWTER Portable Digital microscope to PC



IMPORTANT NOTICE for measurement on still image:

If you want to make the precise measure on the image, please operate it as below procedures:

- ① Select a known scale as the to-be-observed object (such as a standard ruler), which it is used for calibration. Bring image of the selected ruler into focus by turning the "Focus & Magnification adjustment wheel", determine the magnification (such as 60X) by taking a reading from the scale on the focus dial till the image clear, and then capture the image of the standard ruler.
- ② Please DO NOT adjust the Focus&Magnification wheel, you must capture the desired object's images only under the determined magnification (*please only be able to adjust the distance between the microscope and the object till the image is clearing*).
- ③ If you want to take measurement at another magnification, please repeat above operations.

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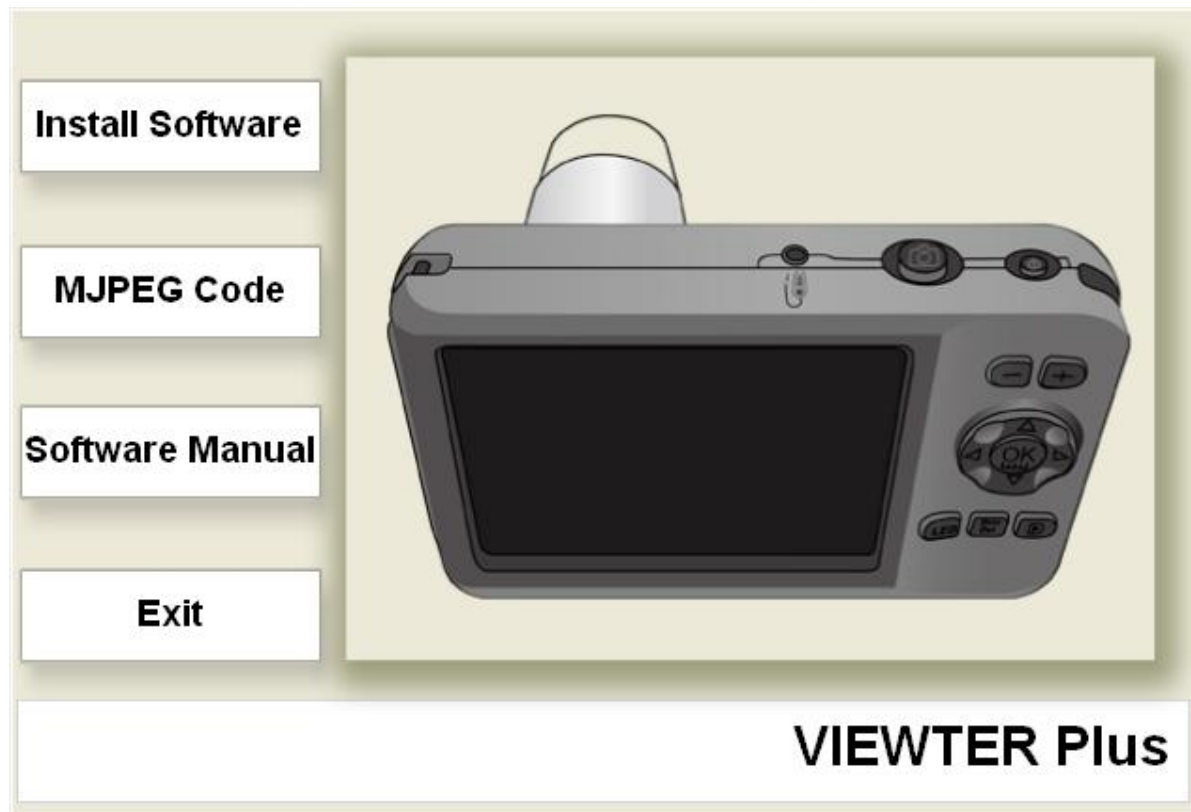
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System Requirement

- ① OS: Window XP / vista / windows 7 / windows 8
- ② CPU: Pent ium IV1.0G, Celeron, AMD Athlon.
- ③ Memory: 256MB or more.
- ④ Free Disk Space: 1.0G or more.
- ⑤ CD-ROM Driver.
- ⑥ PC Interface: USB 1.1

Installing VIEWTER Plus Software

- ① Start PC, place the installation CD-ROM into CD-ROM drive.
- ② The installation program should start automatically - opening menu:



If the installation program does not start automatically, please double-click CD-ROM drive to open the CD-ROM, and then double-click "AutoRun.exe to continue.

- ③ Click [Install Software], and then click "Next" to continue.
- ④ Click "Finish" when the InstallShield Wizard has finished the installation.
- ⑤ Click [MJPEG Code] , Install Video encoder till finish(It is for video playback function).

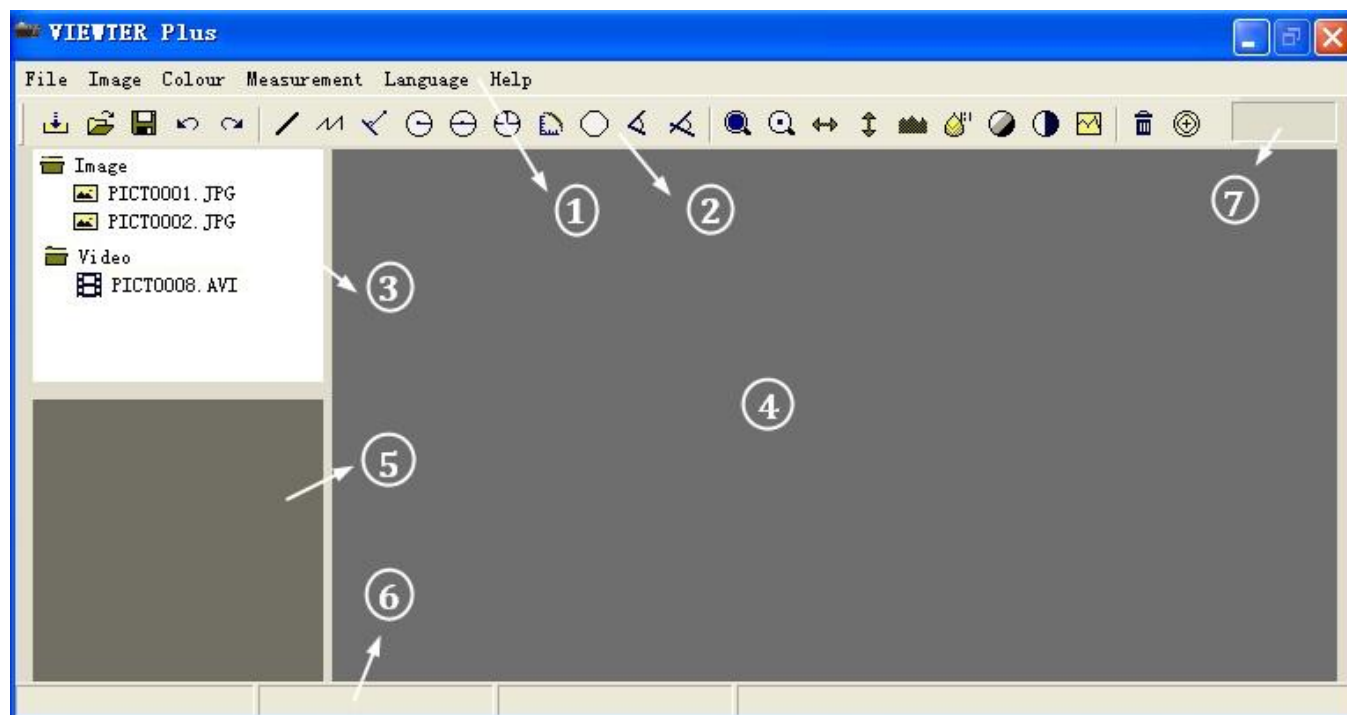
Uninstalling the Software

- To remove VIEWTER Plus software, please click "Start→All Programs→VIEWTER Plus→uninstall" till finish.

Using VIEWTER Plus Software



After completed the software installation, please double click **VIEWTER Plus** on desktop to start VIEWTER Plus as below:



①Menu bar. ②Tool bar. ③Image and video list. ④Image display and drawing area.

⑤Image preview area. ⑥ Status bar. ⑦ Calibrated scale.


Introducing menu bar

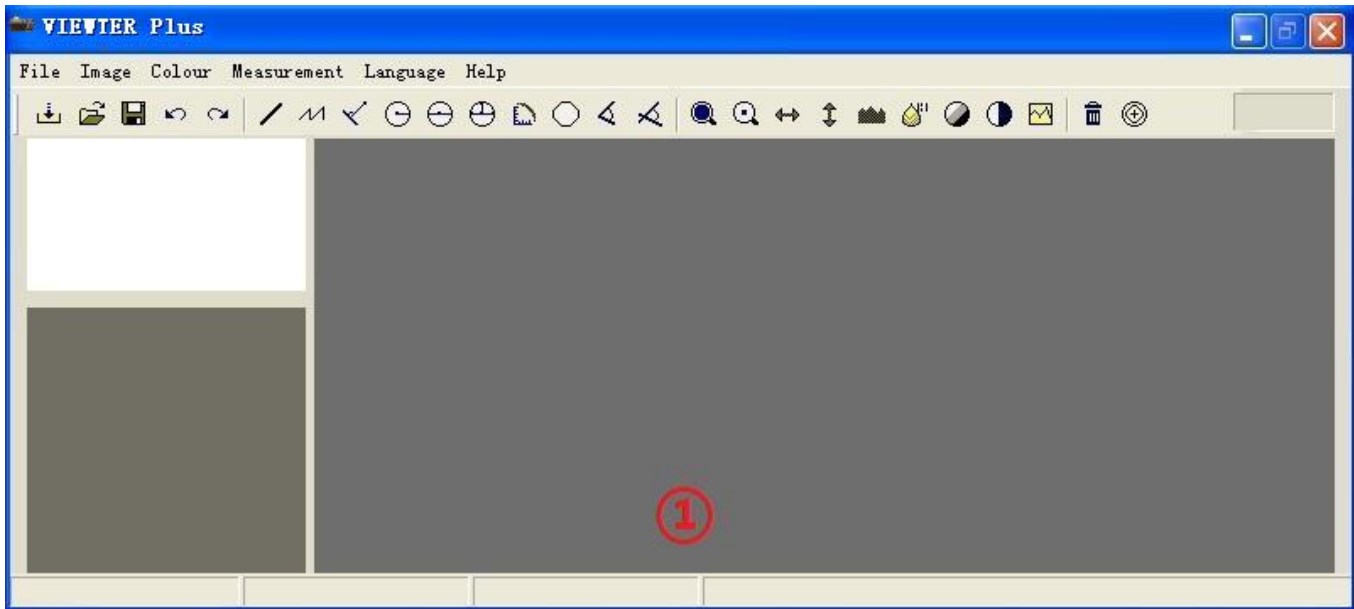
File

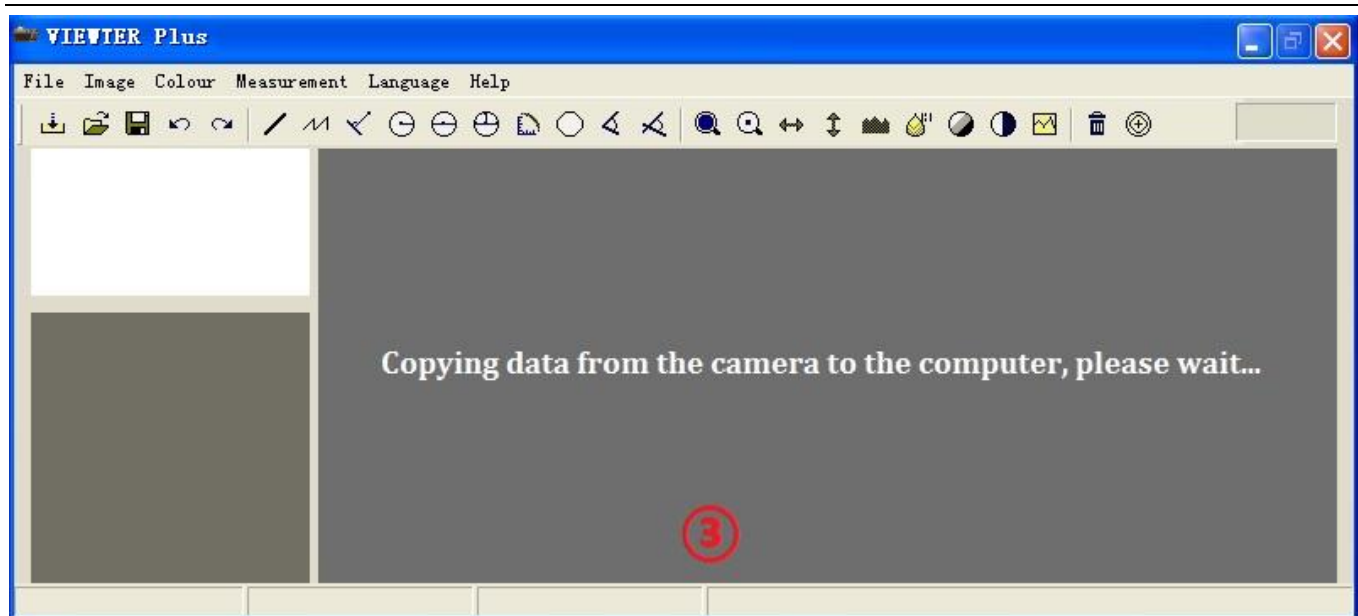
File
Open Folder
Save As
Undo
Redo
Exit

①  Load: Load files from VIEWTER Digital Microscope to computer. Please follow these steps:

- ❶ First, you must start VIEWTER Plus software.
- ❷ Secondly, connect VIEWTER Digital Microscope to computer via the USB cable
- ❸ And then VIEWTER Plus automatically loads files from VIEWTER Digital Microscope to computer.

In case of VIEWTER Plus failed in auto-load files, please copy these files from the Microscope's memory ("DCIM\\100DSCIM" in SD Card) to computer ("My Documents\\VIEWTER Plus"), and then click  Button to load them.





- ② Open Folder: Open the folder which contains captured images and recorded videos.
- ③ Save As: Rename the file and save in different path.
- ④ Undo: Undo the last action.
- ⑤ Redo: Redo the previous action.
- ⑥ Exit: Exit Application.

Image

Zoom In
Zoom out
Flip Horizontal
Flip Vertical
Rotate 90 CW
Rotate 90
Sharpen
Soft
Emboss

- ① Zoom In: Zoom in the image.
- ② Zoom Out: Zoom out the image.
- ③ Flip Horizontal: Make the image flip horizontal.
- ④ Flip Vertical: Make the image flip vertical.
- ⑤ Rotate 90 CW: Rotate the image with clockwise.
- ⑥ Rotate 90 CCW: Rotate the image with anti-clockwise.
- ⑦ Sharpen: Make the edges of image more distinct.
- ⑧ Soft: Make the edges of image smoother.
- ⑨ Emboss.

Color

Threshold
Grayscale
Invert
Histogram

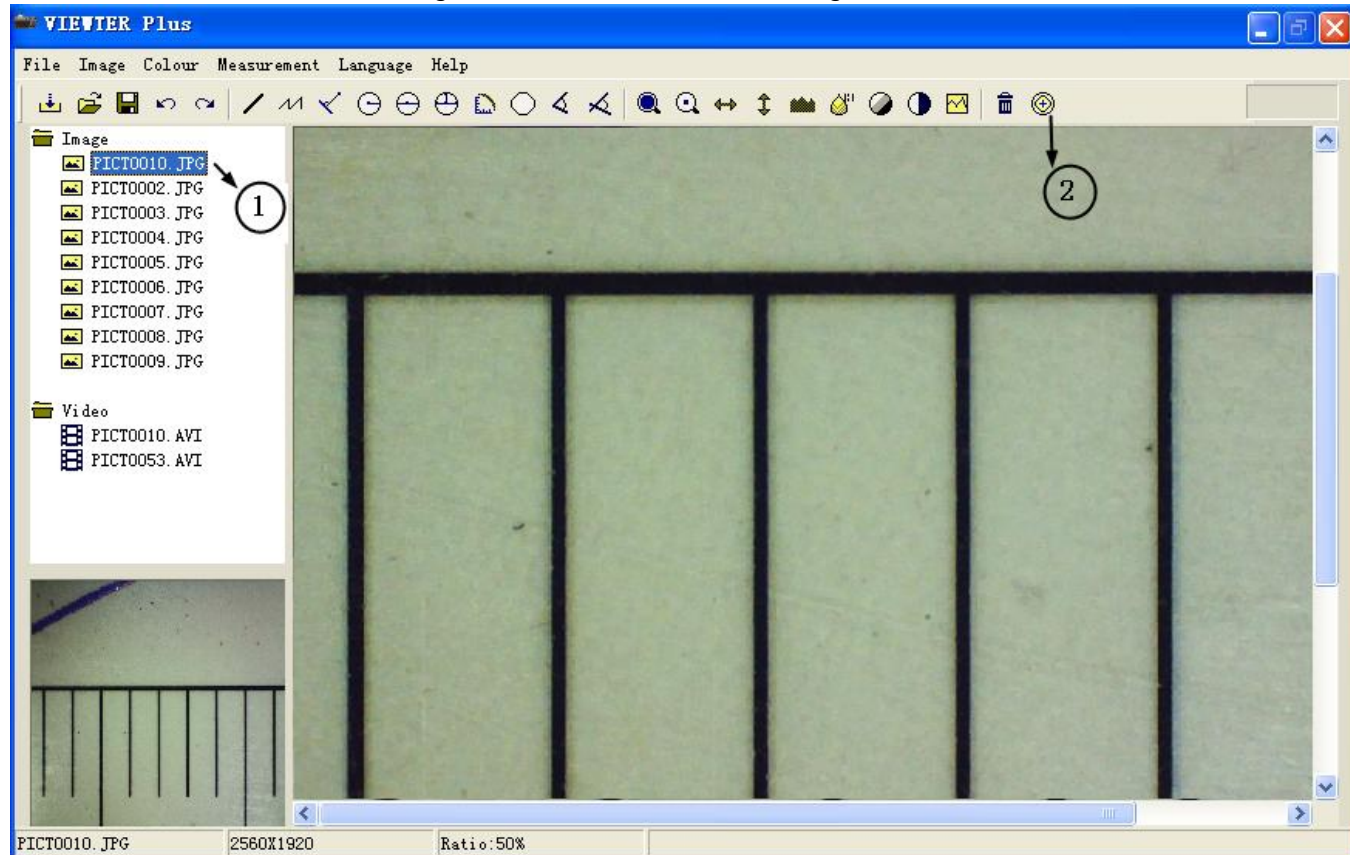
- ① Threshold: Black-White image.
- ② Grayscale: Grayscale image
- ③ Invert: Invert color image.
- ④ Histogram.


Measurement

Measurement Calibration
Measurement Line
Measurement Continuous Line
Measurement Dot-Line
Measurement Radius Circle
Measurement Diameter Circle
Measurement Three Point Circle
Measurement Arc
Measurement Polygon
Measurement Three Points Angle
Measurement four Points Angle
Measurement Setting
Clear Calibration Data

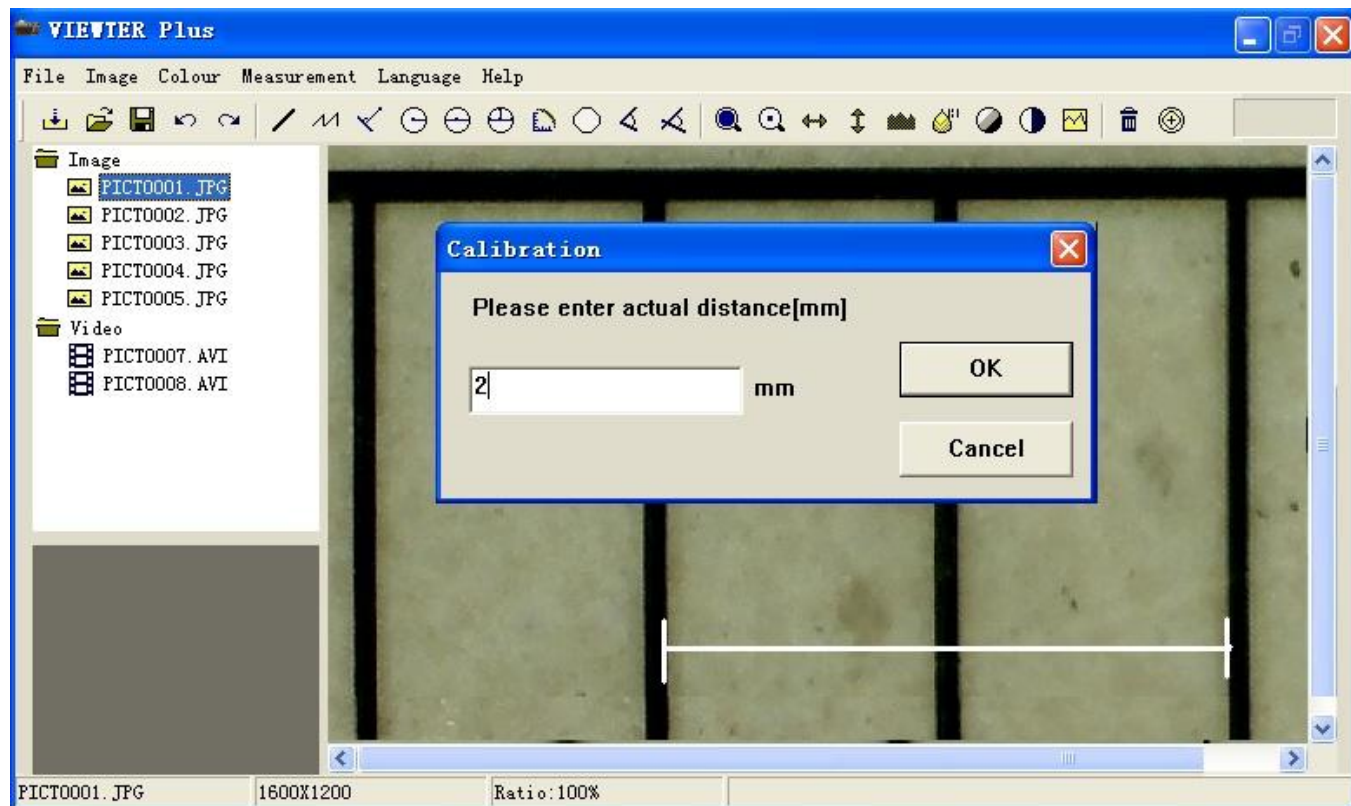
To obtain more accurate the measurement data, please make firstly calibration before any measurement functions.

1. Select the standard ruler image and double-click it in the image list.

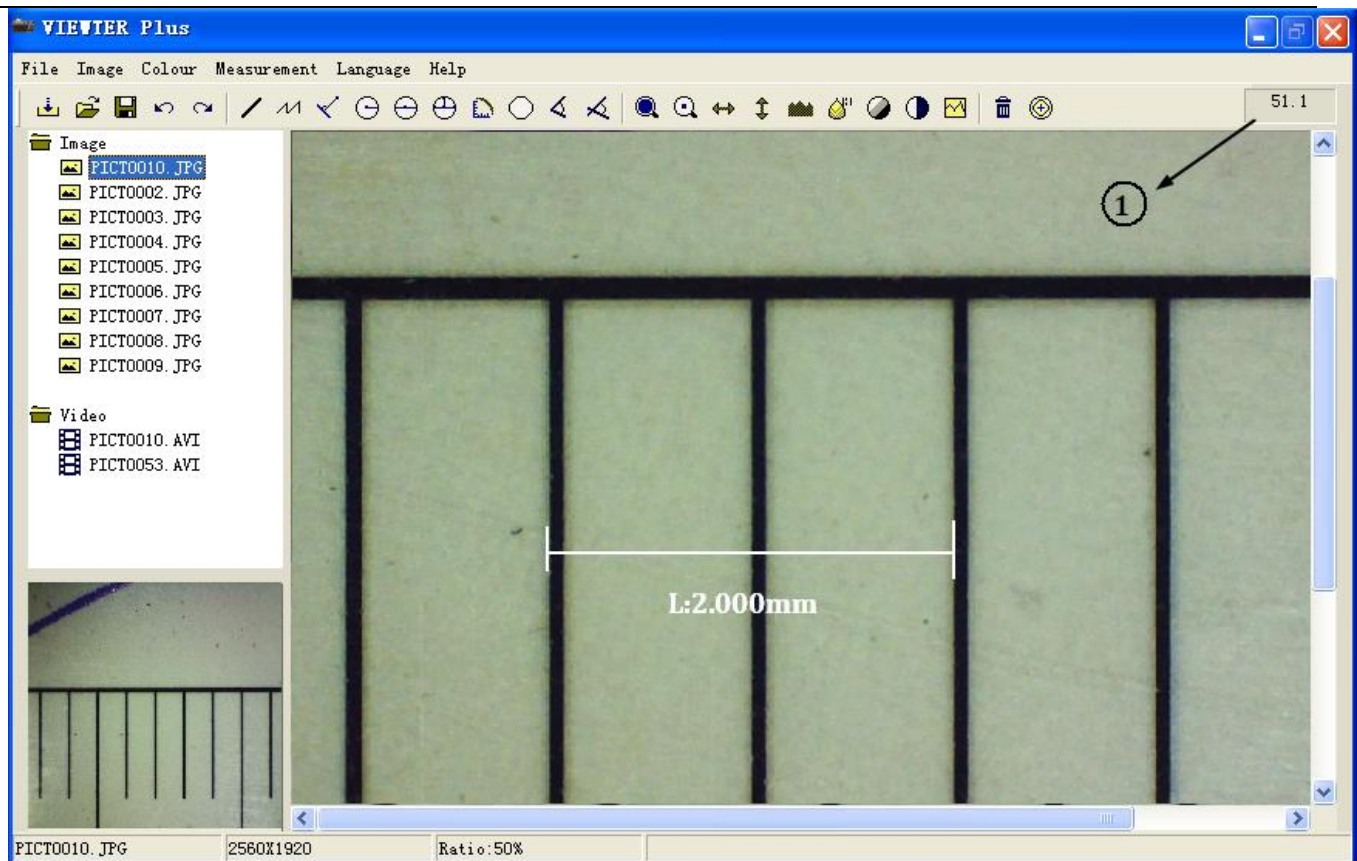


2. Click "Calibration"  button and draw line, and then input the exact known value of the






measurement sample (2mm in this example) when the window of Calibration pop-up and then click "OK". The software will automatically calibrate the scale of magnification and will show the calibrated scale of magnification at the right-up of application as below.








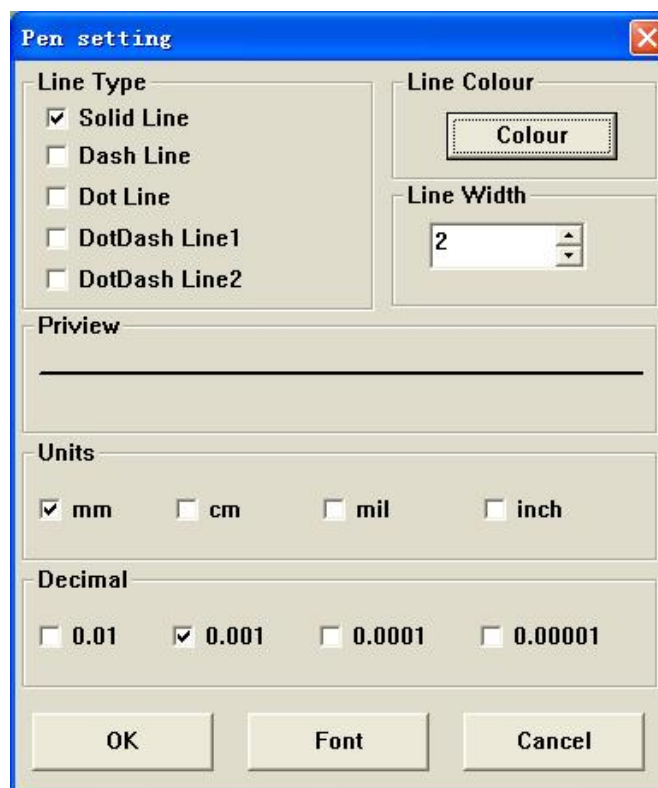
The real-magnification is 51.1 as ① shown.



③. Finish above calibration, you can continue to measure other images which were captured at the same magnification with the standard ruler now.

- ②  **Measurement Line:** The line measurement allows you to measure the linear distance between two points. Simply left click and drag to the desired length, and click again to finish.
- ③  **Measurement Continuous Line:** The continuous line function allows measurement of the distance between multiple connecting lines. Simply click and drag to form one section of distance, click again to start another section. Continue until the total desired distance is measured. Double click to finish.
- ④  **Measurement Dot-Line:** The point to line measurement feature allows measurement of a line 90 degrees from a certain line. Simply create a line to represent the base (e.g. the light blue line in the sample picture below) by clicking once to start, drag, and then click again to set the endpoint. Branch off from the base line to start measuring the line that is 90 degrees from the base line and a final click to finish the measurement.
- ⑤  **Measurement Radius Circle:** The radius of circle measurement allows you to measure the circumference, area, and radius of a circle. Simply click and extend out to the desired radius.
- ⑥  **Measurement Diameter Circle:** The diameter of a circle measurement allows you to measure the circumference, area, and radius of a circle. Simply click and extend out to the desired diameter.

- ⑦  Measurement Three Points Circle: The three point circle measurement allows the measurement of the circumference, area, and radius of a circle. Simply click on any three points on the circle you wish to measure.
- ⑧  Measurement Arc: The three point arc measurement allows a measurement of an arc. Click on three consecutive points on an arc to measure.
- ⑨  Measurement Polygon: The polygon measurement feature allows measurement of a polygon. Simply click and drag to form the desired length, and click again to start the next section. When finished, double click to finish the polygon measurement.
- ⑩  Measurement Three Points Angle: The three point angle measurement allows the measurement of an angle. Start at the pivot point and extend out to start measuring an angle.
- ⑪  Measurement Four Points Angle: The four point angle measurement allows the measurement of an angle by selecting four points. Simply select two points from one line segment and another two points from another line segment to complete the angle measurement.
- ⑫ Setting: Measurement setting.



- ⑬ Clear Calibration data: Clear Calibration data.

Language

English (English)
日本語(Japanese)
中文简体(Simplified)
中文繁体(Traditional)
한국의(Korean)
Русский(Russian)
Español(Spanish)

Help

Help
About

① Help: Anyty V500 user guide

② About: Software information and version.

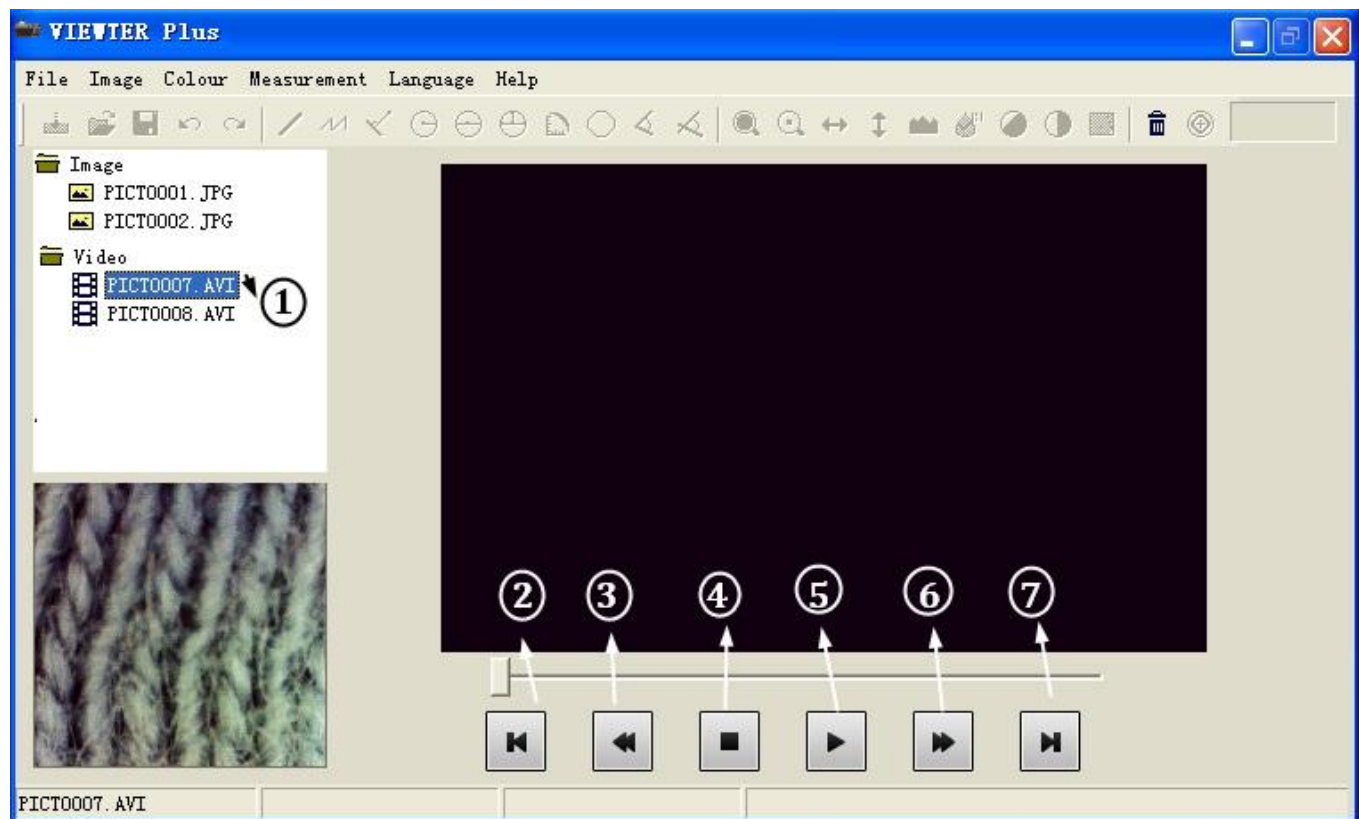
Introduction of Tool Bar







1. Load 2. Open folder 3. Save AS 4. Undo 5. Redo 6. Line Measurement 7. Continual Line Measurement

8. Point to Line Measurement 9. Radius Circle Measurement 10. Diameter Circle Measurement

11. Three Points Circle Measurement 12. Arc Measurement 13. Polygon Measurement 14. Three Points Angle Measurement 15. Four Points Angle Measurement 16. Zoom In 17. Zoom out 18. Flip Horizontal 19. Flip Vertical 20. Sharpen 21. Soft 22. Grayscale 23. Invert 24. Histogram 25. Clear Calibration data 26. Measurement Calibration 27. Calibrated Scale

Video Playback



- ① Double-click the video to play. ②  Start ③  Reward ④  Stop ⑤  Play ⑥  Forward
⑦  Last

Troubleshooting

1. You can't find the microscope's storage after connect the microscope to computer via USB cable, please try another USB port.