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SA-9758 LCD Digital Microscope 4.3 Inch With LED

SAFE SA-9758 LCD Digital Microscope 4.3 Inch With LED User Guide

Contents

SAFE SA-9758 LCD Digital Microscope 4.3 Inch With LED

Specification

- Display 4.3″
- 8 LEDs
- Magnification 10x to 800x
- Resolution 2M, 1.3 VGA
- Video format AVI
- Photo format JPG
- Rechargeable Li-Ion battery, working time (6-7 hours), charging time (5 hours)
- DC input 5 V.
- Micro SD card storage
- Software Window/Mac, Android smartphone app (TinyScope from **play.google.com**)

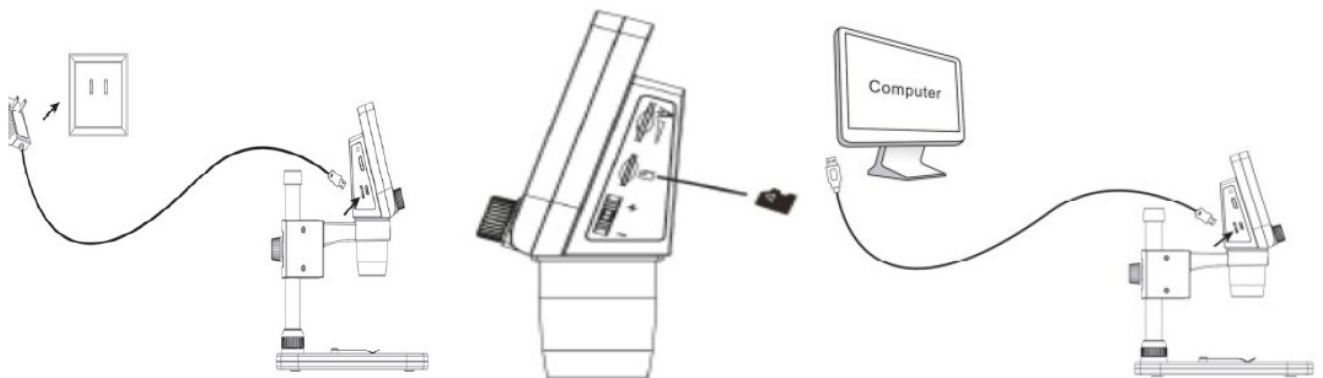## Content

Tips and warnings

1. Do not use the LCD digital microscope in environments where such devices are prohibited, improper use may result in serious accidents.
2. Protect the LCD digital microscope from water and other liquids. Do not use the LCD digital microscope with wet hands. Never use the LCD digital microscope in the rain or snow. Moisture can cause fire and electric shock. If you notice smoke or odors coming from your LCD digital microscope, turn it off immediately. Turn it off immediately.
3. The LCD digital microscope may become slightly warm during use. This is not a malfunction.
4. Wipe the LCD digital microscope with a soft, dry cloth.

Dimensions

115mm / 3.1in

140mm / 5.5in

170mm / 6.7in

60mm / 2.3in

118mm / 4.6in

168mm / 6.6in

Commissioning

Connection possibility 220 v. Memory storage on Micro SD card and on your PC

Computer

Function and parts

1. Focus
2. Settings
3. Photo, Video, Review
4. To top
5. To bottom
6. Photo
7. On/Off

8. LED dimmer

9. Micro SD slot

10. Digital zoom

11. Load indication

12. DC: battery charging, USB: output to PC, for storage

Charging

After connecting the microscope to the charger via USB, select Charge by pressing the Up and Down buttons. During charging, the indicator LED is red; it turns off when charging is finished. gone when charging is finished, which means the battery is fully charged. The charging time (from empty to full) is about 5 hours. After the battery is fully charged, it lasts about 6-7 hours.
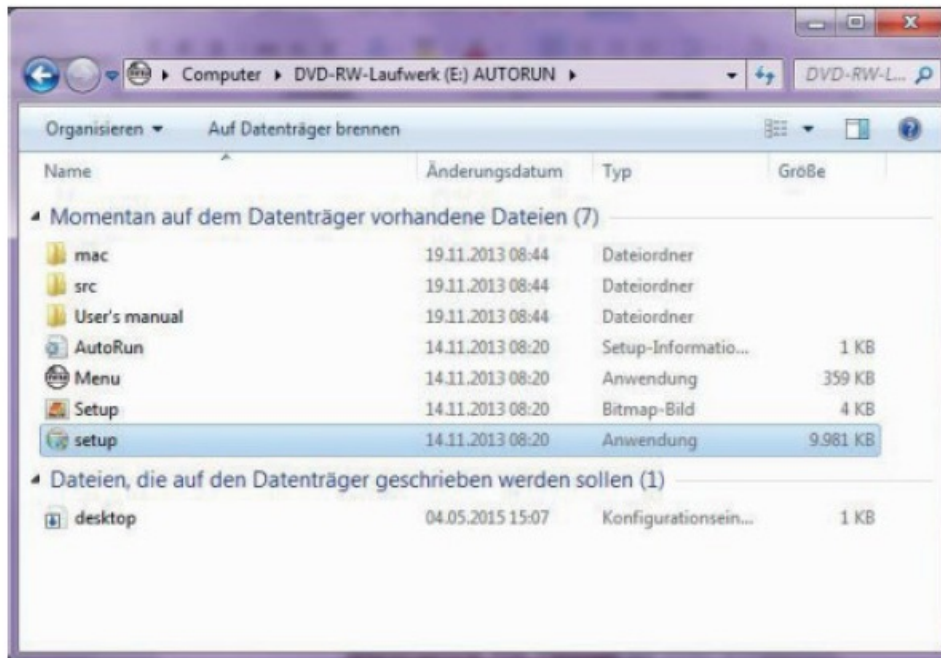

Software installation

Software installation PortableCapture-Plus Windows

Place the CD in the CD-ROM drive.

The Capture-Plus software starts up automatically for Windows users. If the installation does not start automatically, select "setup.exe" on the CD, to install the software on the computer.
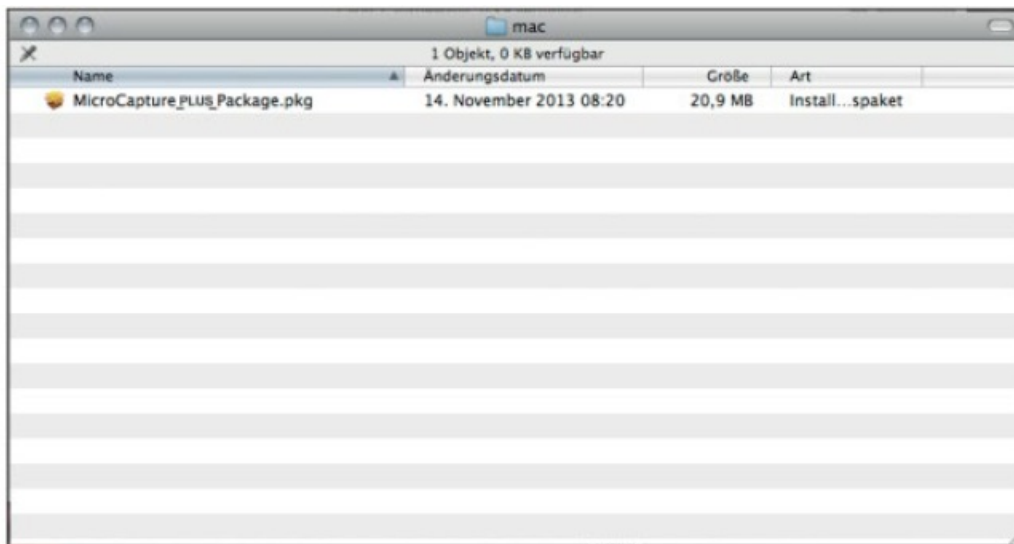
Then click Install MicroCapture, the installation is completely automatic. Reset the computer after installing the driver. Installation may be blocked by the antivirus software, so have the antivirus software allow all processes or close the antivirus before installing. If the installation was successful, you will see the icon on the toolbar, double-click it to run it.

Software installation PortableCapture-Plus MAC OS

Place the CD in the CD-ROM drive. For MAC OS, there is a MAC folder on the CD.

Copy the MAC file MicroCapture-Plus to the desktop. Double-click on the copied file to open it. The installation wizard will launch and guide you through the rest of the process. For faster and easier access to the software, we recommend that you create a shortcut to the program after installation. After installation, we recommend that you create a shortcut to the program and place it on your desktop. Reset the computer after installing the driver. Installation may be blocked by the antivirus software, so have the antivirus software allow all processes or close the antivirus before installing. If the installation was successful, you will see the icon on the toolbar, double-click it to run it.
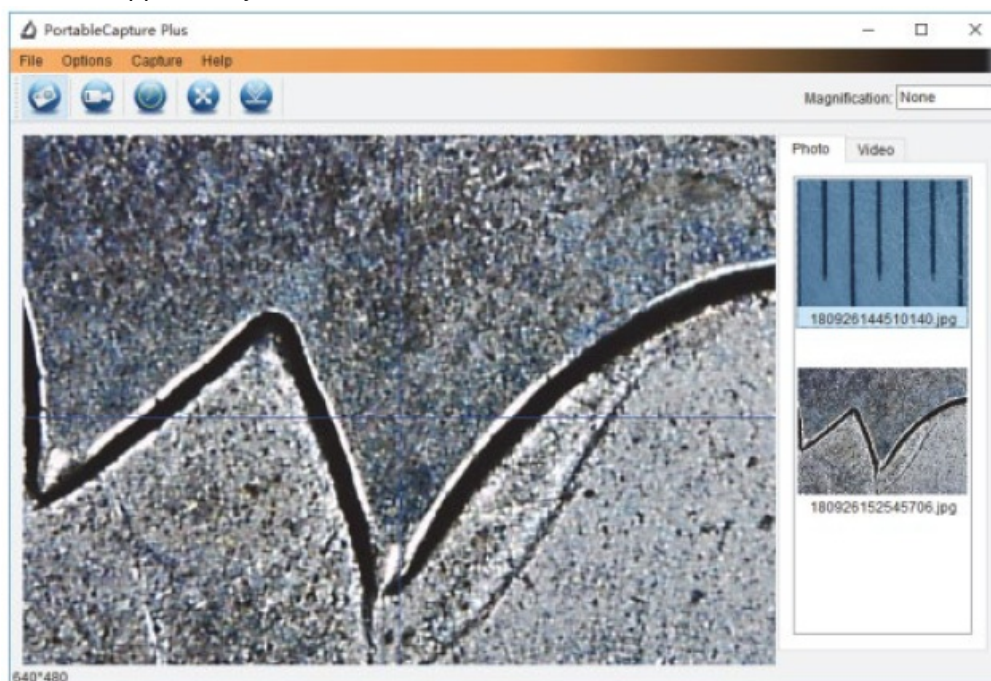

Setting Software

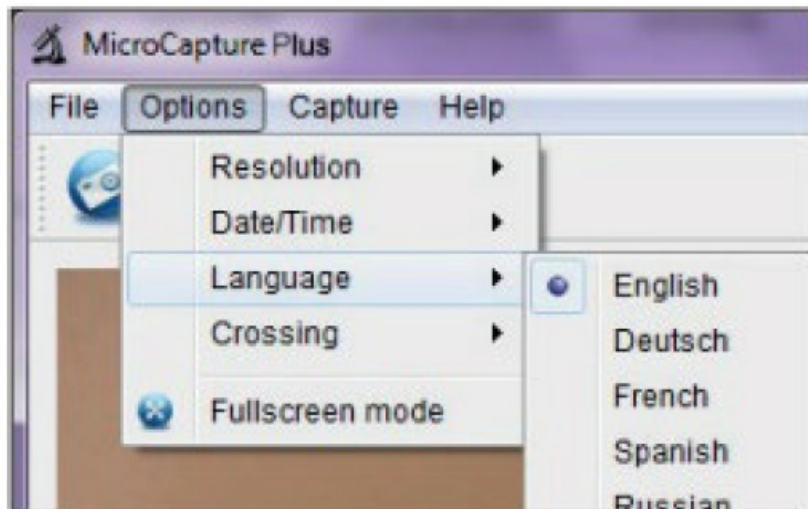Launch the software by clicking on the icon
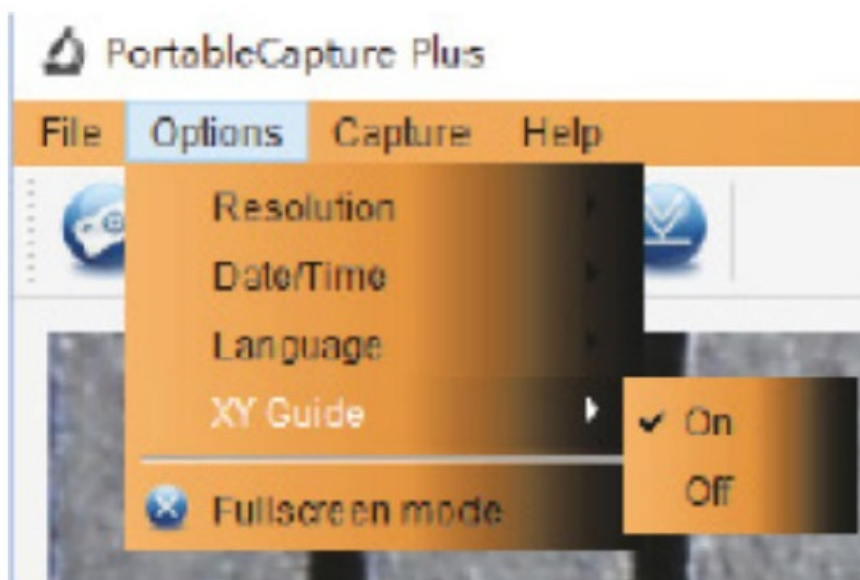

The following menu will appear on your screen

Language

By default, the software is set to English. To change the language, select Options > Language > Dutch.

Menu options

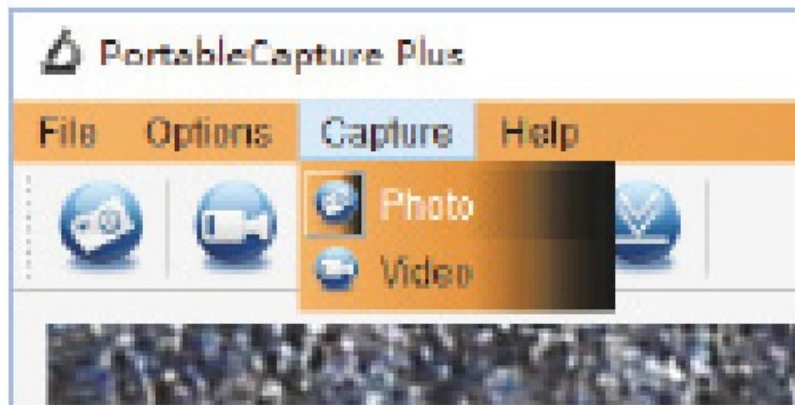Open the Options menu and the following screen appears

1. Resolution Selection of image resolution
2. Date/Time Display/hide date and time,(is not saved on the photo/video)
3. Language Selection of the menu language in the software
4. Show/hide reticle

Data speed

The transfer rate on the USB interface depends on which version you have 2.0 or 3.0 Therefore, for smooth image display, the resolution is preset to 1280 x 960. Of course, photos and videos are saved at the resolution selected under Options > Resolution.
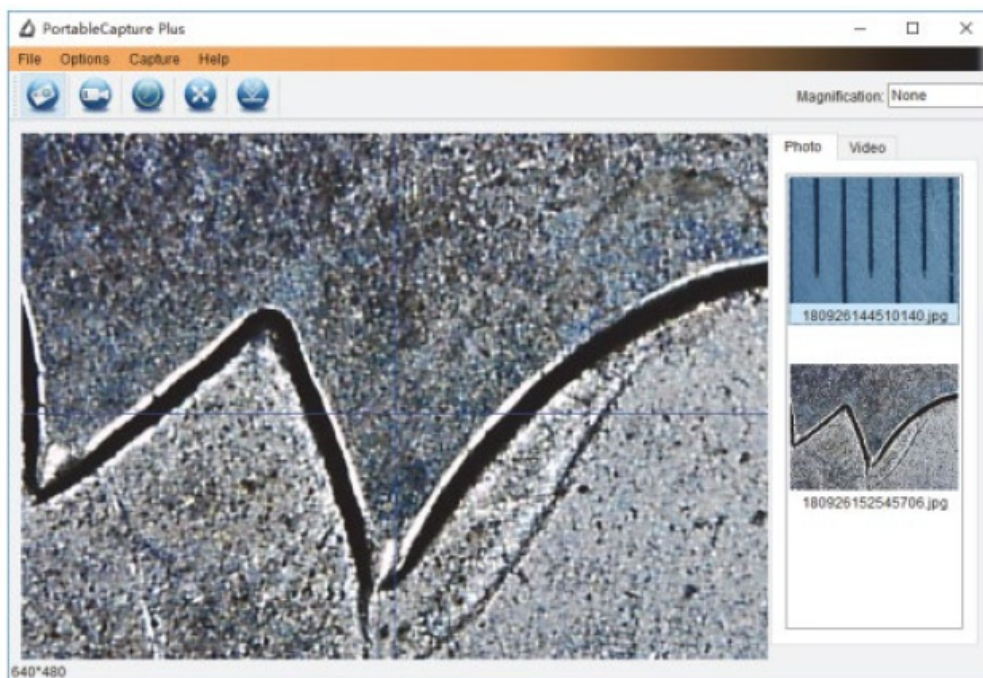
Photo Capture

To take photos, choose from the menu below

Then click on Photo

After this, you can press the record button located in the connection cable. The recording is saved in the File > Photo folder in the main menu. At the same time, the photos are displayed as thumbnails on the right side of the program window
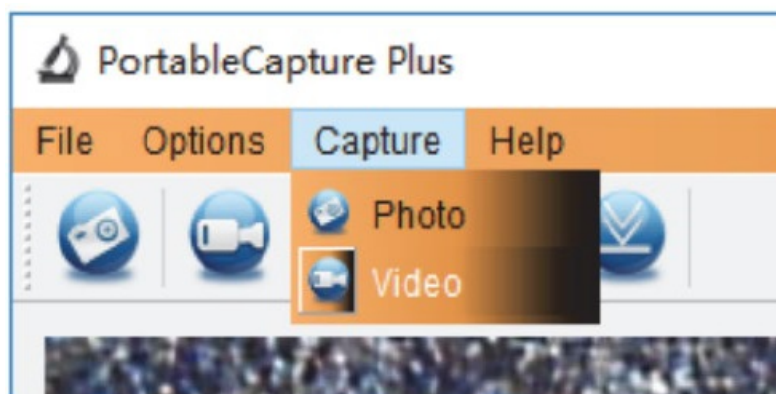

When you click the mouse on a thumbnail, the selected photo is displayed in the larger view. If you right-click on a thumbnail, you will see a submenu, which allows you to perform various actions for the selected photo.

1. Save

2. Copy

3. Clear each

4. Clear all
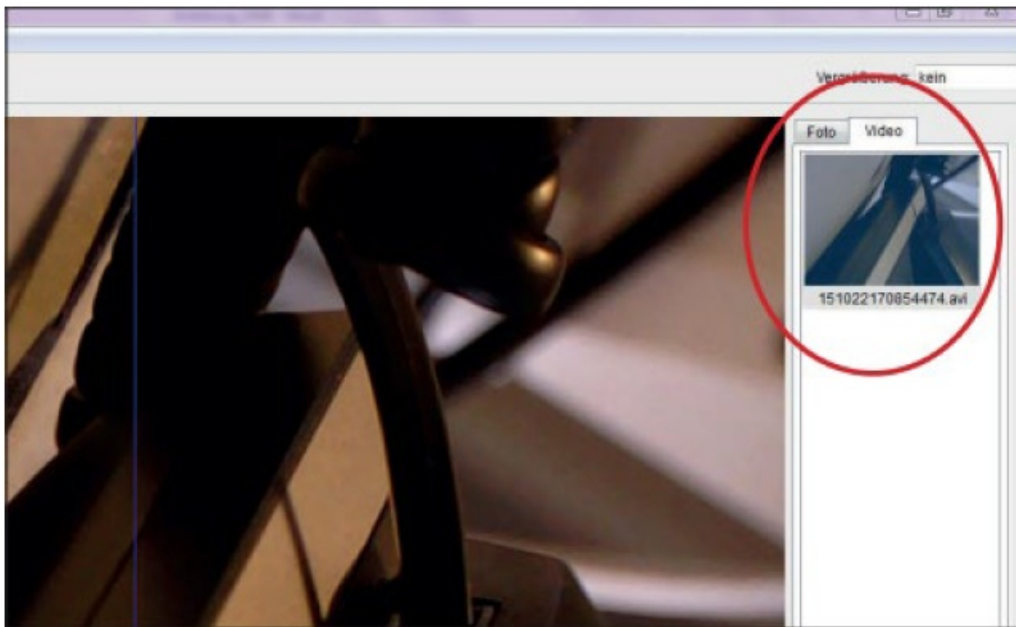
Video recording

To create a video, choose from the menu below

Then click on Video

The above icon starts flashing red, to stop recording click the video icon again and the flashing will stop. The recorded videos are saved on your computer in the Microcapture_Video folder. You can also access this folder from File > Video folder in the main menu.

When you click the mouse on a thumbnail, the selected video is displayed in the larger view. If you right-click on a thumbnail, you will see a submenu, which allows you to perform different actions for the selected video.
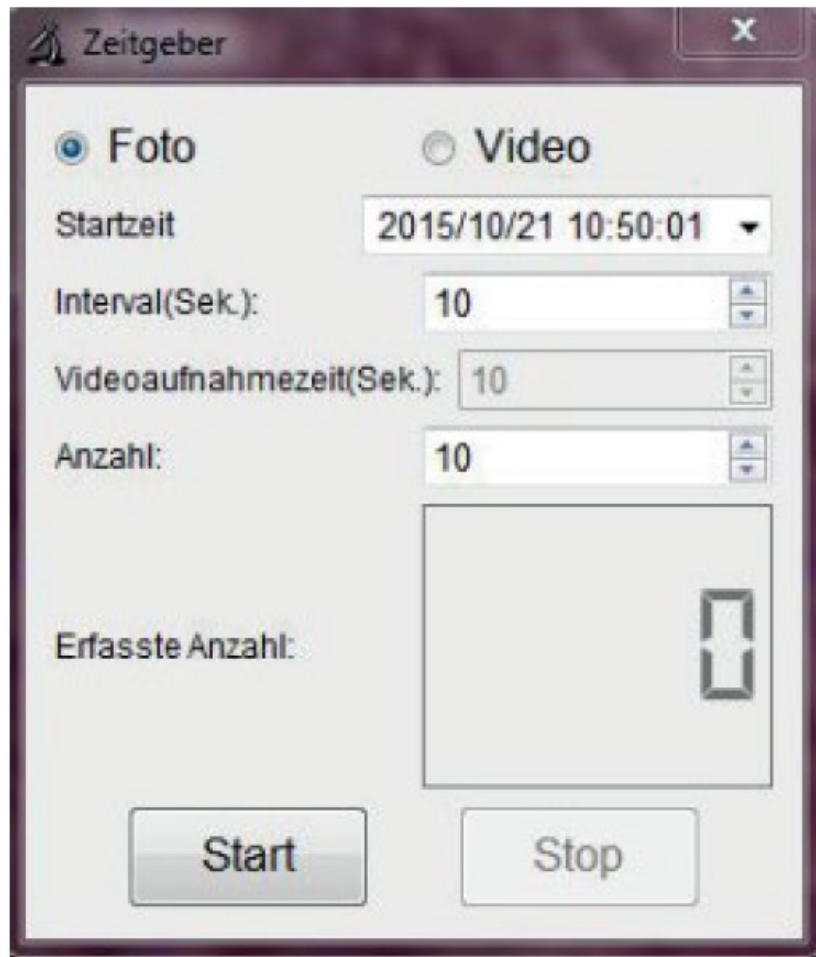

1. Save
2. Copy
3. Clear each
4. Clear all

Timer

You have the option of setting a timer to record photos and videos. To do this, click on the icon

the following window opens

- Photo/Video – Select whether to record photos or videos.
- Start time – Set recording start time Interval (sec.)
- Set recording interval (from 0 to 99 seconds)
- Video recording time (sec.)
- Set length of video recording (from 0 to 99 seconds)
- Number – Set number of shots (from 0 to 99)
- You can see how many recordings have already been made in the Recorded Number field.

Image editing

- The software also has an image editing program. To edit a captured photo, open it by double-clicking on the thumbnail or right-clicking on the thumbnail and then selecting Open. The photo will open in a separate window.
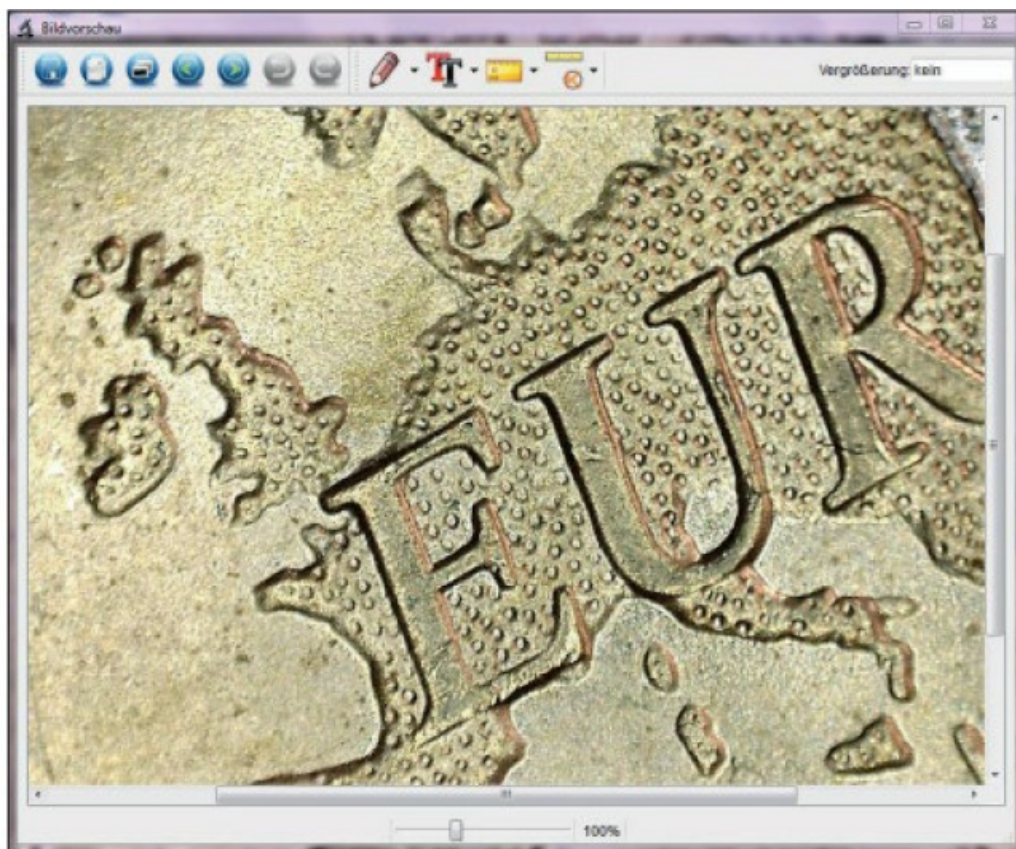
Photo editing

- You now have several options for editing the photo

Save photo

Copy photo to clipboard

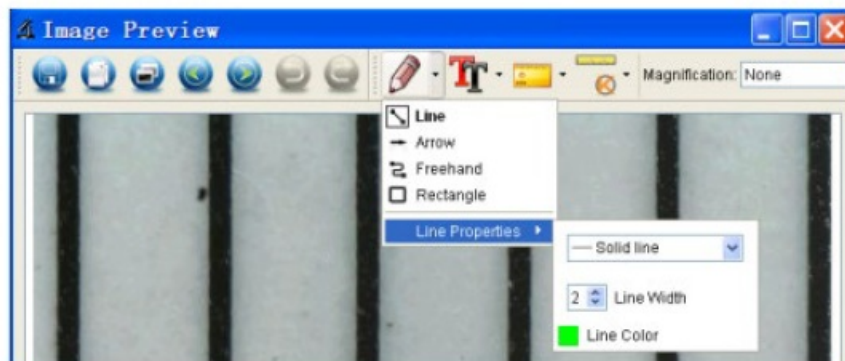Copy photo

Previous

Next

Undo

Again

Drawing

- Using the icon below, you can select drawing tools under the pull-down menu as below.

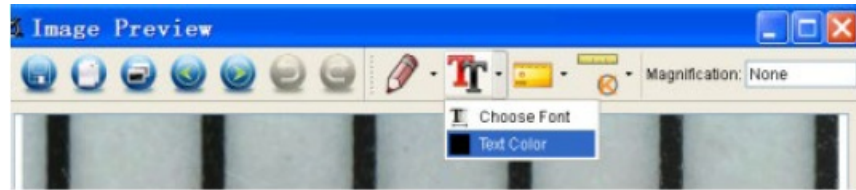- Selection options for drawing; Line, Arrow, Free hand, Rectangle

Text

- Using the icon below, you can select font under the pull-down menu as below.
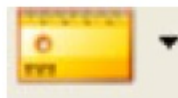

- Selection options for text input; Font, Text color

Measurements

- Using the icon below, you can select measurement under the pull-down menu as below.

- Selection options for text input; Angle (simple line with one start and one end point), Continuous line, Radius, Diameter, 3 Point angle, Line properties, Text properties, Unit of measure (mm, cm, pixel, inch).
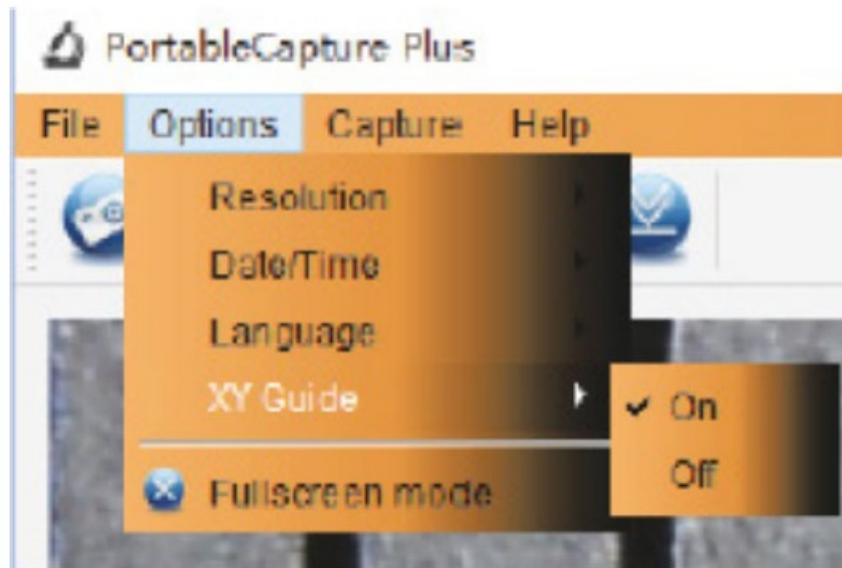

The following setting/measurements are from Left to Right;

- Line, ring, Square, Polygon, Line length, Oval, Arc, Point to point distance, Point to line distance, Parallel line, Angle.
    1. Line measurement at any angle Simply click the mouse button on one point and drag to the next point, then release.
    2. Continuous Line Measurement With the continuous line measurement, you can measure any continuous length you want. Simply click the mouse button on one point and drag to the other desired point and then release.
    3. Circle radius measurement Simply click and extend to the desired radius, the radius, circumference and area of the circle will appear accordingly.
    4. Circle diameter measurement Simply click and stretch until the desired diameter, the diameter, circumference and area of the circle will appear accordingly.
    5. Three-point angle measurement Just define any three points and click, the value of the angle will then appear.
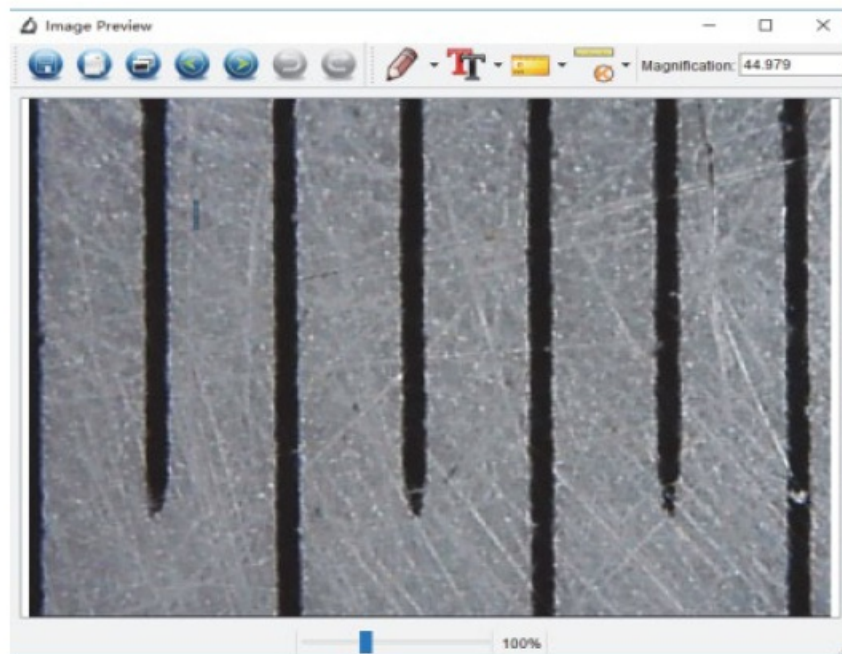
Calibration

The software provides a calibration function that allows you to perform the most accurate measurements on your photos. You should always set this function first if you want to obtain correct value when taking measurements.
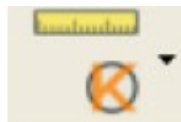
You can use the Crossing option to check that the scale unit is parallel. Then adjust the magnification until the image is clear. Take a picture of the selected area when the scale unit is parallel to the crosswire, as below. Our experience taught us that the measurement could be checked with 99% high precision. Measurement tolerance can be caused by distortion and blur of the human eye.
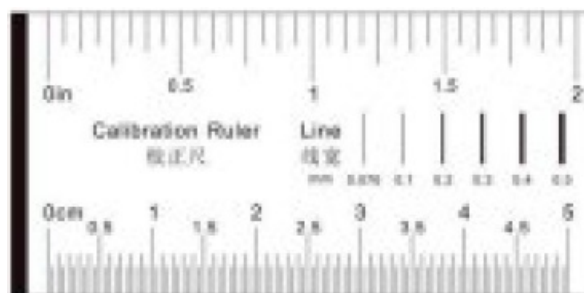

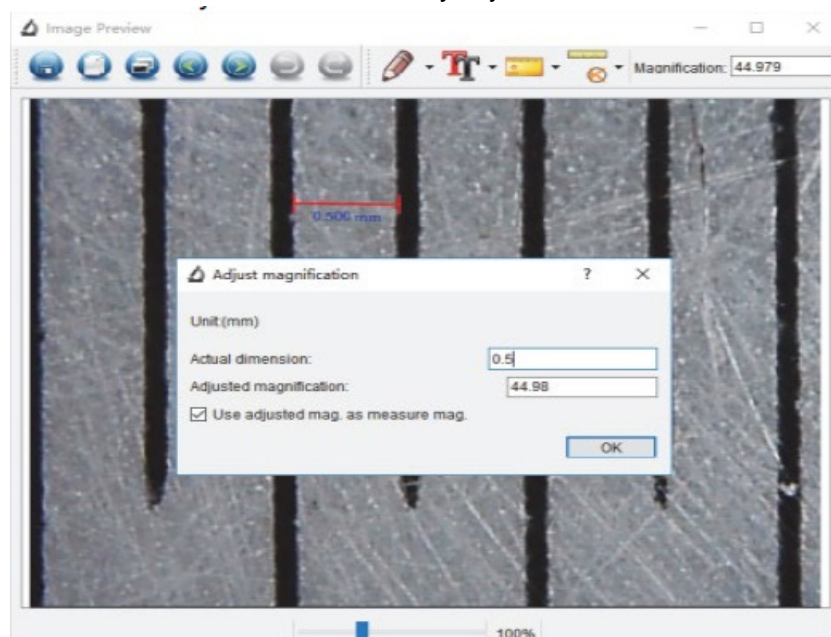Double-click the image to open the measurement interface, as below.

Then click on the calibration icon

Click on the start and end points over a known value. Now a dialog box like below will appear and you need to enter the exact value of the trial measurement in Actual measurements. For correct measurement use the enclosed Calibration Ruler

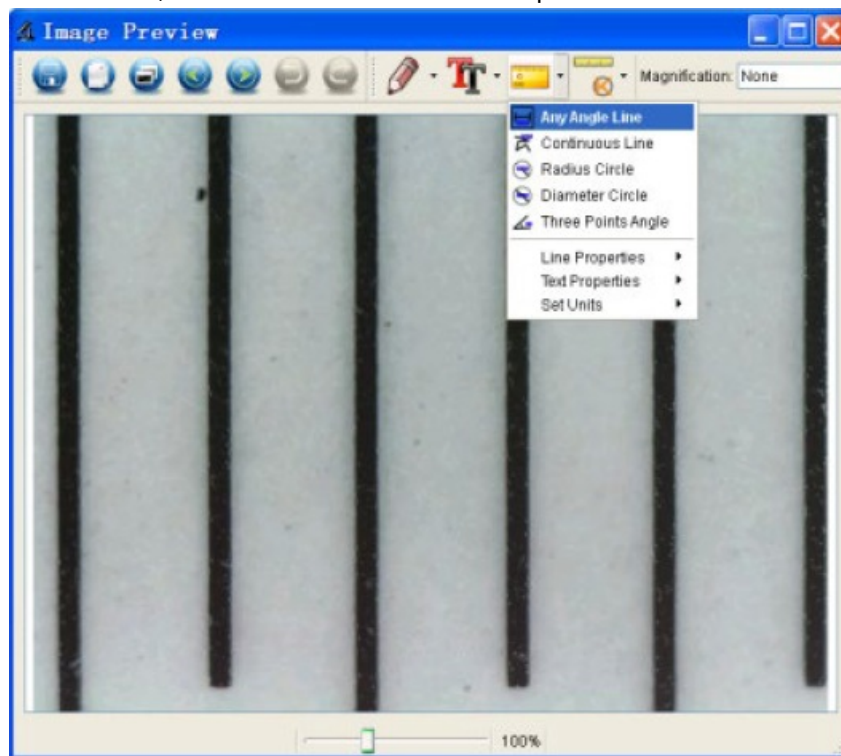Now manually enter the actual size in mm of the distance you just defined in the field.

The software will then automatically calibrate the magnification. Click OK and the adjusted magnification factor will appear in the upper right corner. Reliable measurements can now be made on all photos taken after calibration using the same microscope focus setting. If you change the focus for a photograph using the dial on the device, it is necessary to recalibrate. If necessary, you can also manually set the magnification for a single photo or for future shots.

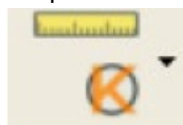You can now use any line option from the menu under the icon below.

Use to measure the value again. If the value measured with software is close to or exactly 100% equal to the exact value of the calibration ruler, it means the calibration is complete.
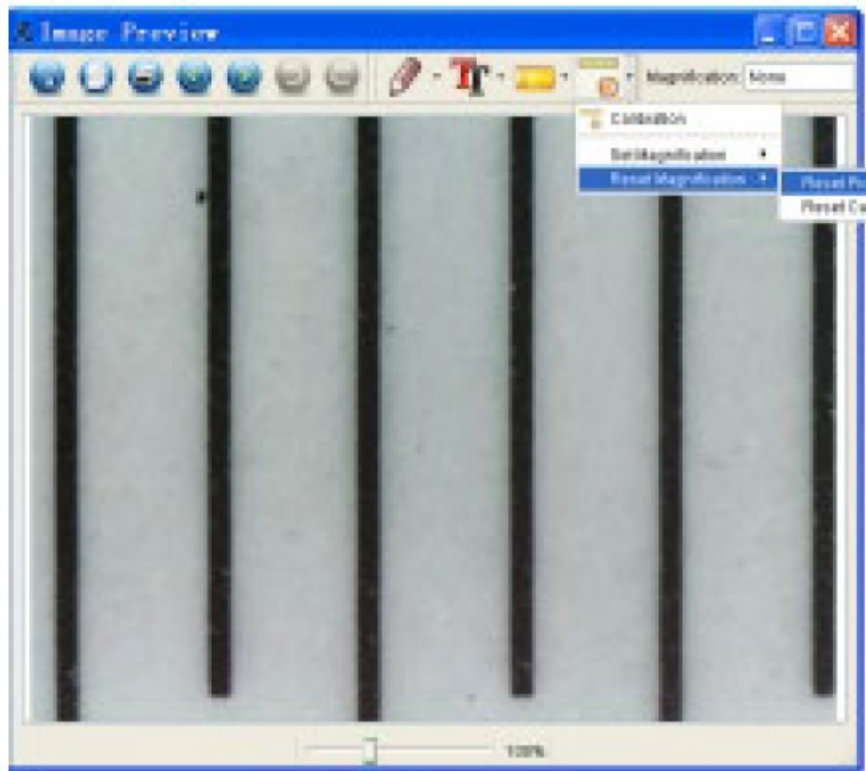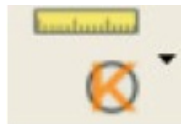

Adjust calibration

To change the magnification and adjust the focus for photo shooting, recalibrate the magnification factor.
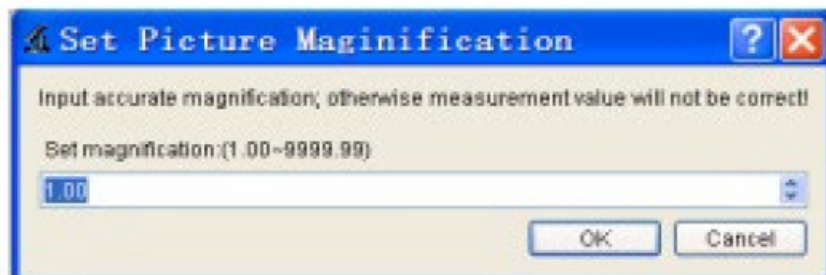

Reset magnification > Reset picture magnification. And then restart the calibration (see earlier in this manual)
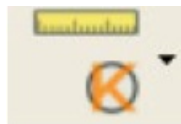
Change the magnification factor and take several pictures, click on the image to open the measurement interface. And click on the icon below
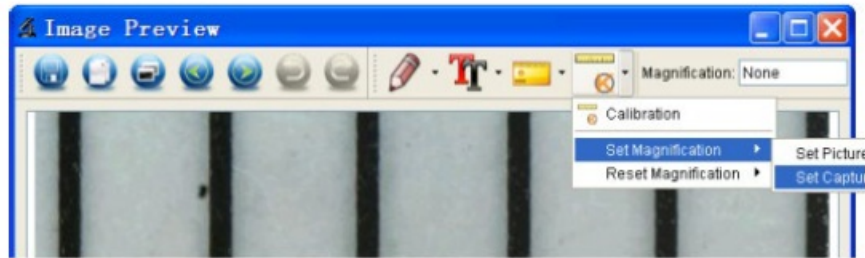

Set magnification > Set picture magnification, now a dialog box will appear, as below;

Enter the magnification factor in the dialog box and click OK. If you want to use the same magnification factor to take pictures, just click on

Set magnification > Set capture magnification. Now all images will use the same magnification factor and you can start measuring immediately.

Icons and the explanations

Take picture - Used to take a picture one at a time.

Start/Stop recording video.

Timer for photo/video - Set the start time, interval time and total number of photos/videos.

Full screen mode Press "ESC" or double-click to exit.

Save As

Copy to clipboard
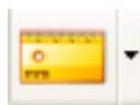

Copy file

Previous

Next

Undo

Again

Drawing

Text

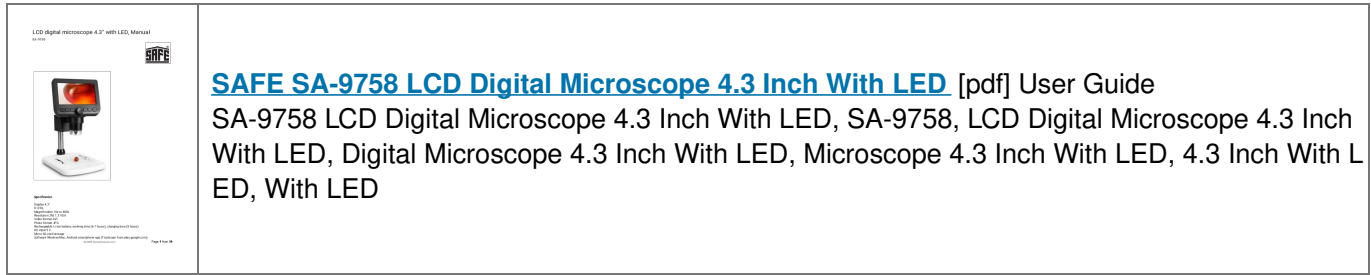Measurement

Calibration

View, pause or stop recording.

MORE INFORMATION

- **www.stamps4everyone.com**
- **www.safe-nederland.com**

FAQs

- **Q: What should I do if I notice smoke or odors coming from the microscope?**
  - A: Turn off the microscope immediately to prevent any potential hazards. Do not continue use if there are signs of smoke or unusual odors.
- **Q: How do I clean the microscope?**
  - A: Wipe the LCD digital microscope with a soft, dry cloth to keep it clean. Avoid using any liquids or cleaning agents on the device.

Documents / Resources

SAFE SA-9758 LCD Digital Microscope 4.3 Inch With LED [pdf] User Guide
SA-9758 LCD Digital Microscope 4.3 Inch With LED, SA-9758, LCD Digital Microscope 4.3 Inch With LED, Digital Microscope 4.3 Inch With LED, Microscope 4.3 Inch With LED, 4.3 Inch With LED, With LED

References

- **Stamps 4 Everyone - Stamps 4 Everyone**
- **Stamps 4 Everyone - Stamps 4 Everyone**
- **User Manual**