SOUTHERN SCIENCE SUPPLY

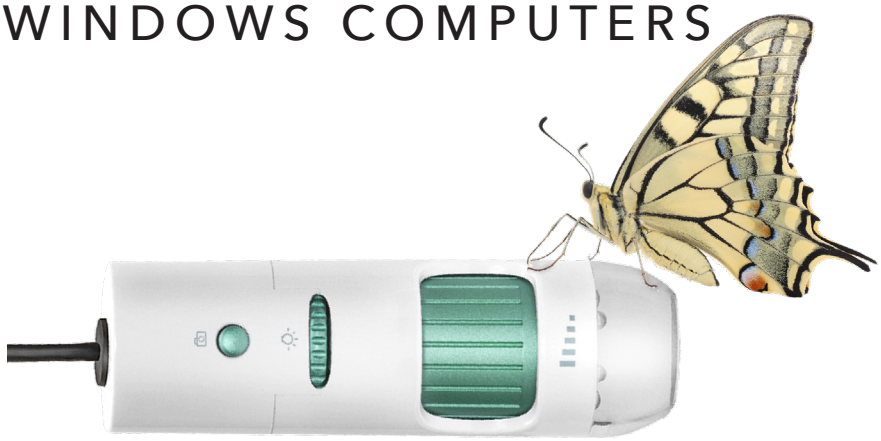
www.southernsciencesupply.com

MicroSight 1.3MP & MicroSight 5MP

MICROSCOPE

USER MANUAL

WINDOWS COMPUTERS



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OVERVIEW

The 10-200x digital MicroSight Microscope provides an adjustable magnification range anywhere from 10-200x and comes in two megapixel options, the 1.3MP and the 5MP. The 5MP is considered high definition and will make a difference when printing, enlarging, and cropping. All MicroSight microscopes are USB supported.

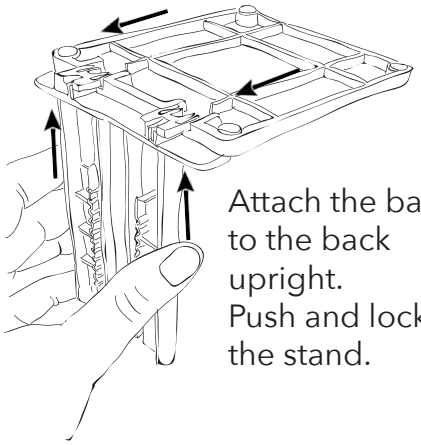
The built-in high-performance LEDs can illuminate an object without the need for any auxiliary lighting. The light is dimmable should you be viewing something reflective. By adjusting the focus knob on the camera, the magnified image can be viewed, captured as a JPEG or BMP, or recorded as a video directly from the computer screen.

These MicroSight microscopes can be used in a variety of situations. Education is probably the most widely used application, however, they are often used in skin exams, scalp exams, circuit boards, printing inspection, textile inspection, paper money and coins, stamps, jewelry inspection, rock and mineral inspections, and so much more.

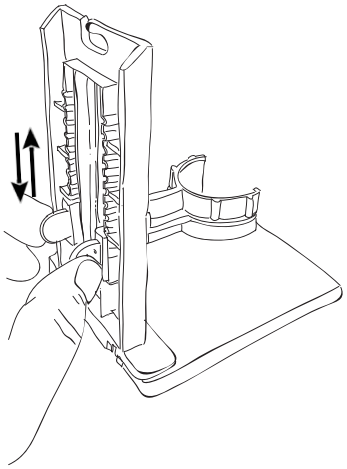
The software is always included with these microscopes and is designed for Mac and Windows. MicroSight microscopes are also compatible with Chromebook as external cameras and can be used with little iPEVO Visualizer, a free download from the Google store. All microscope purchases include a full sight license.

The MicroSight microscope comes with:
Microscope with tip that focuses at 100/200x.
Additional microscope tips that focus at 15x, 30x, 50x (always included)
Plastic Stand
Software
5 Year Warranty

HOW TO ASSEMBLE THE PLASTIC STAND



Attach the base to the back upright. Push and lock the stand.



Insert a holder at the bottom of the back of the stand. Press the holder, pull up and down to adjust the distance between the microscopes and the object. Place the microscope in the stand.

A variety of sturdy metal stands are available through our website under the Accessories Tab.

INSTALL THE SOFTWARE

There are two ways to install the MicroViewer software for Mac or Windows. The disc is included inside the box for both Mac and Windows. If you find yourself with a computer that doesn't have a disc drive, an external drive may be used or the direct download is available from our website at the bottom of the home page in the footer under **Downloads** tab.

1. Install the MicroViewer program and restart the computer.

2. The serial number is located on the paper sleeve of the disc inside the box. There is a Mac number and a Windows number. They are both case sensitive. There are no letter Os, use zeros.

3. Serial numbers may be used more than one time. If you misplaced the disc sleeve, Windows XP/Vista/7/8 S/N: VSVC4EM00050784WC.

4. After entering the serial number, press OK, not evaluate. The evaluate button is for a trial period and will stop working after a given amount of time. If this happens, simply reinstall again.

START THE PROGRAM

1. Plug the microscope into the USB port BEFORE opening the program.

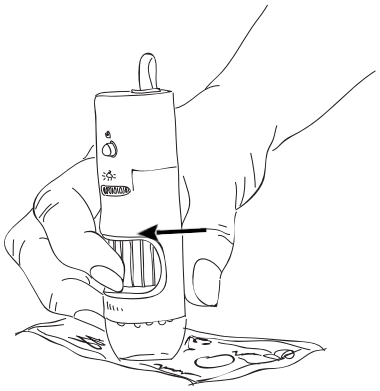
2. Double click the MicroViewer software and the image above will show up and you will see a live image.

3. Place the microscope on or above the object to be viewed.

4. You will be asked if you want to calibrate. Unless you are planning to measure something during this use, just say okay and move on. You can read more about how to calibrate and measure later in this user guide.

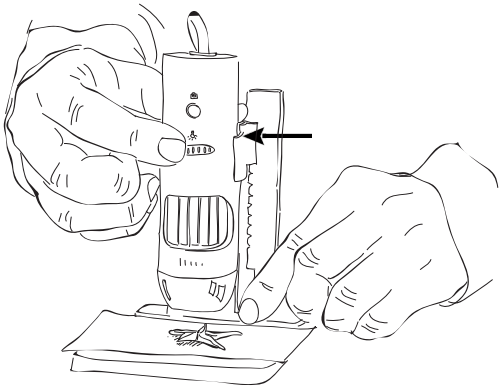
FOCUS THE MICROSCOPE

The MicroSight microscope is easy to use. The closer you put the microscope to the specimen the bigger the image will appear. Don't hesitate to touch the clear tip to the surface of what is being viewed. It is calibrated at the tip and it helps you be steady when you are viewing a specimen.



*CURVED LENS

The curved tip on your microscope has two focal points when touching the surface of the specimen to the specimen being viewed. Turn the focus wheel to the right and view the specimen at 100x. Keep turning the wheel and the next time if focuses the specimen will be magnified to 200x.



*MICROSCOPE ADJUSTABLE LIGHT

Adjust the light intensity by turning the thin wheel on the microscope.

*ADDITIONAL FOCUS TIPS

All of the Southern Science Supply microscopes include additional focus tips. They are pre-calibrated at the rim of the tip to match the measurement on the magnification sticker.

Remove the curved tip to the microscope by pulling or popping it off and replace it with any of the additional focal tips as desired. NOTE: The first time the additional tips are used, it may be necessary to adjust the LED lightbulbs gently inward to allow the focus tip to be placed on the microscope. Make certain the focus tip is seated firmly and completely on the microscope before viewing.

TOOL BAR

You will see this tool bar above the software screen.

This icon reference map with help you to familiarize yourself with all available functions offeered in MicroSight software.

Function Key lists:

ICON	Function Instruction	ICON	Function Instruction
	Snapshot: Take a picture.		Play Playback the last video.
	Record Capture a movie.		Video Setup The setup window.
	Compare images.		Video Quality Change the video Quality
	Freeze Freeze the live image.		Crosshair Add a crosshair.
	Save clipboard Copy the live image.		Manual ***Adobe reader is necessary.***
	Measure		Delete
	Zoom in/Zoom out Digital Zoom in/Zoom out.		minimize
			Full Screen

HOW TO TAKE PHOTOS AND VIDEOS

*PHOTOS

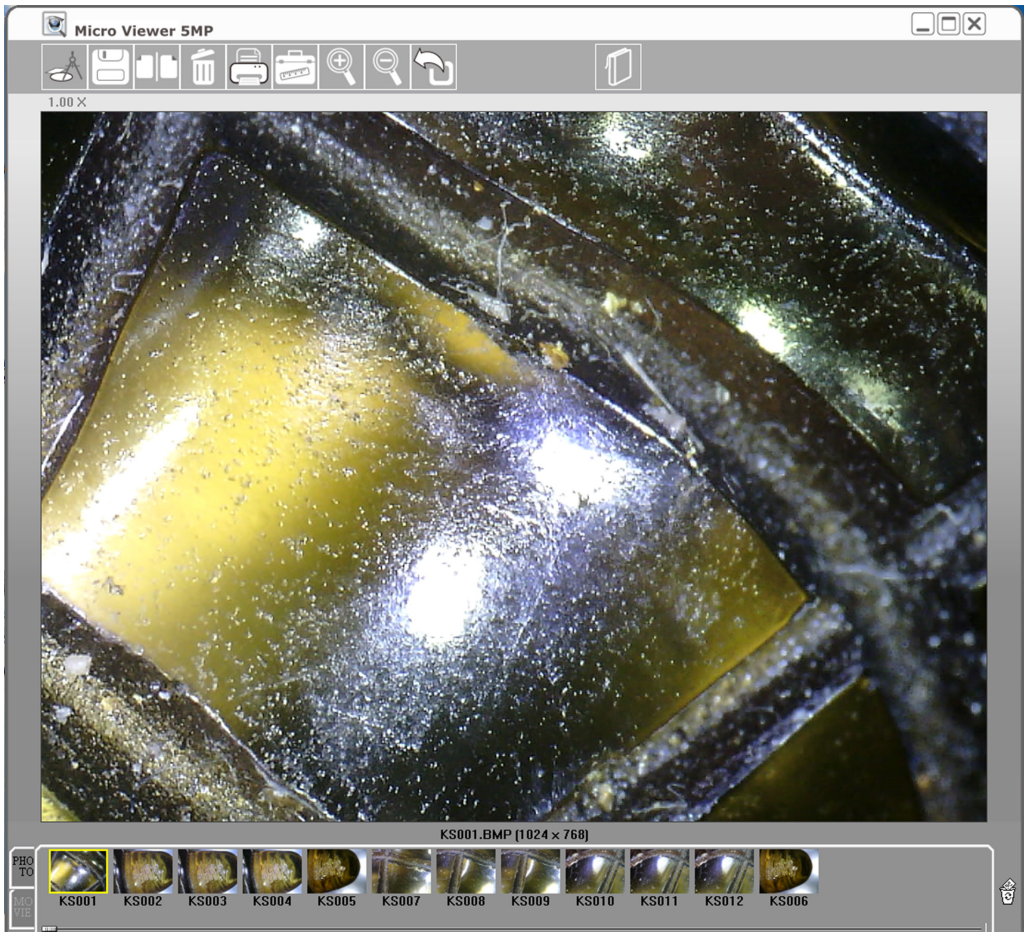
To take a picture, click on the **Camera** icon. The button with the camera icon on the microscope device is also an option. Any image captured will show up as a thumbnail in the bottom section of the software screen.

*VIDEOS

To make a video, click on the **Video** icon. Any video captured will show up as a thumbnail in the bottom section of the software screen.

*HOW TO VIEW AN IMAGE I HAVE ALREADY TAKEN

Make sure the MicroSight microscope is plugged into the USB port and the software is open. Double click on the image you want to preview from the bottom of the screen. It will open in the viewing area.



To return to the live screen, click the **Back** button.

HOW TO SET THE VIDEO SETTINGS

Make sure the MicroSight microscope is plugged into the USB port and the software is open. Begin by clicking on the **Video Setup** button in the tool bar, this screen will appear. Here are the definitions for the options.

Choose the image source

Choose the video format (supports different resolutions)

Adjust video quality

Time Lapse recording

Set up the video saving location and file name

The Software is always on the top layer

Set up the picture saving location and file name

Record the video immediately

After snapshot the preview window will appear

Play the latest video immediately

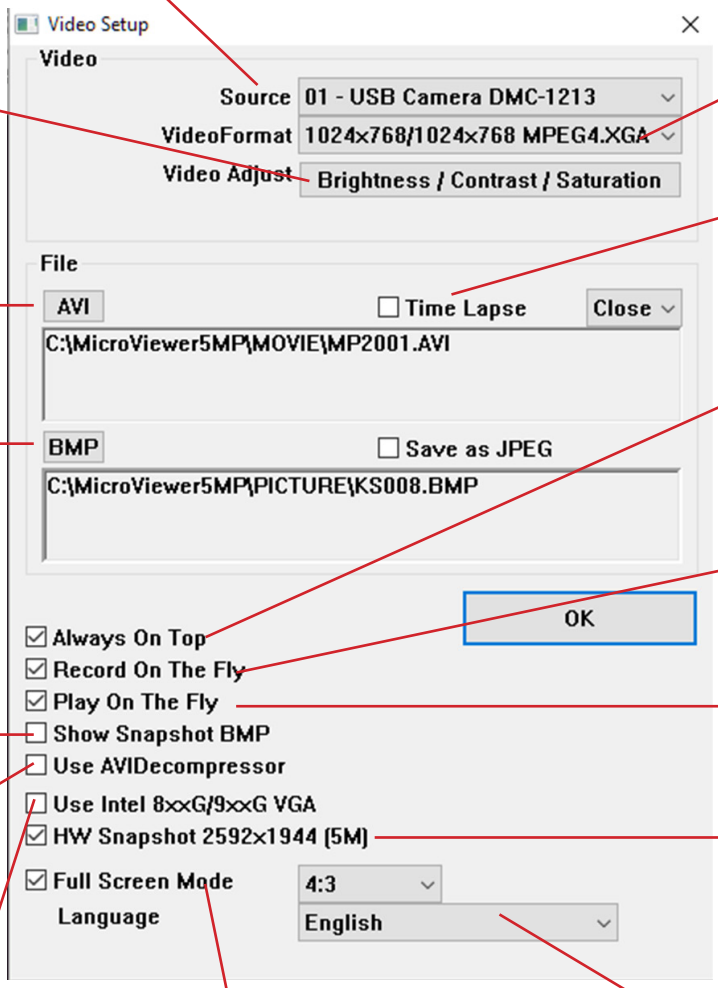
If the OS is below Windows XP SP2, the live zone will display an abnormal image in some computers. Mark this box to solve this problem.

FOR 5MP ONLY
Save the picture with maximum resolution of 2592x1944 (5-Mega)

Starts on full-screen mode immediately

Choose the language

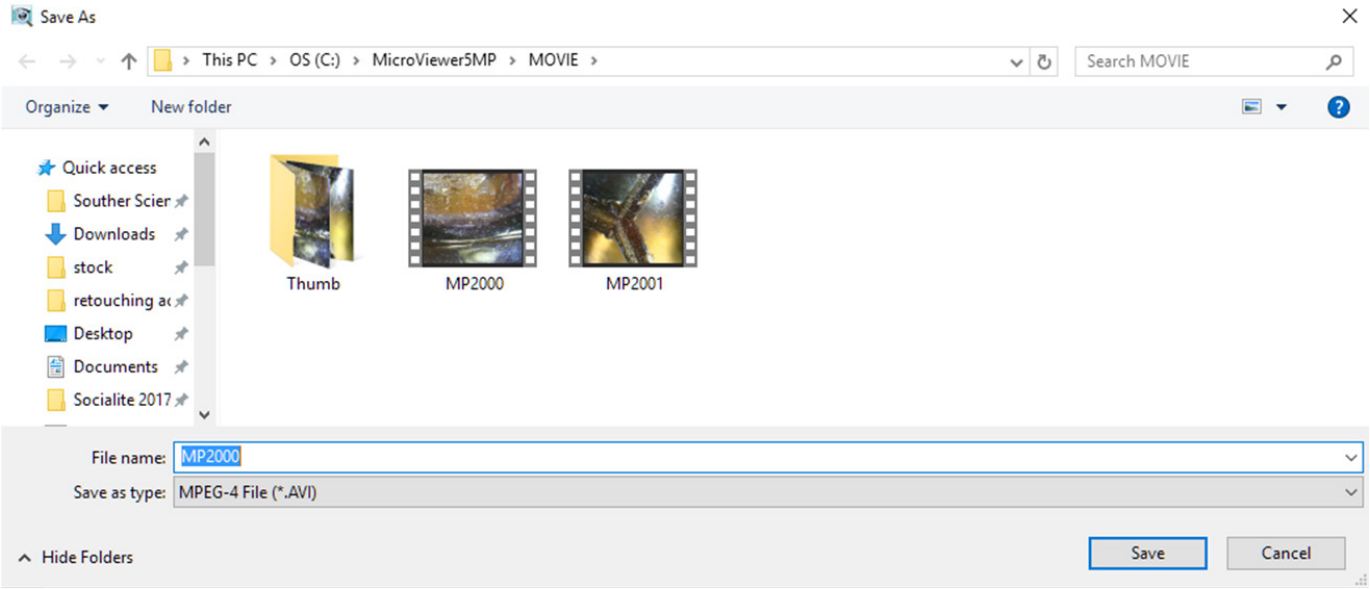
In some computers with an Intel chip, the live zone displays an abnormal image. Mark this box to solve this problem.



HOW TO SAVE MY VIDEOS

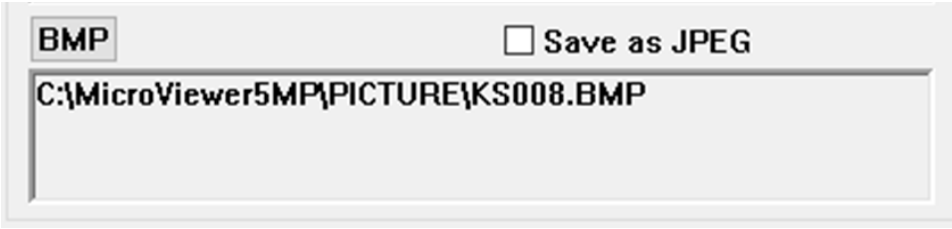
If you want to change the location of where your videos are, click on the **Video Setup** button, then click the AVI button.

The **Save As** window below will pop up. You can create and choose individual student folders, class folders, subject folders etc. Select the folder you want the video to be saved in. You can choose to save all images to your desktop and then move them into the appropriate folders or redirect the software to send them directly to a specific folder each time you take an image.

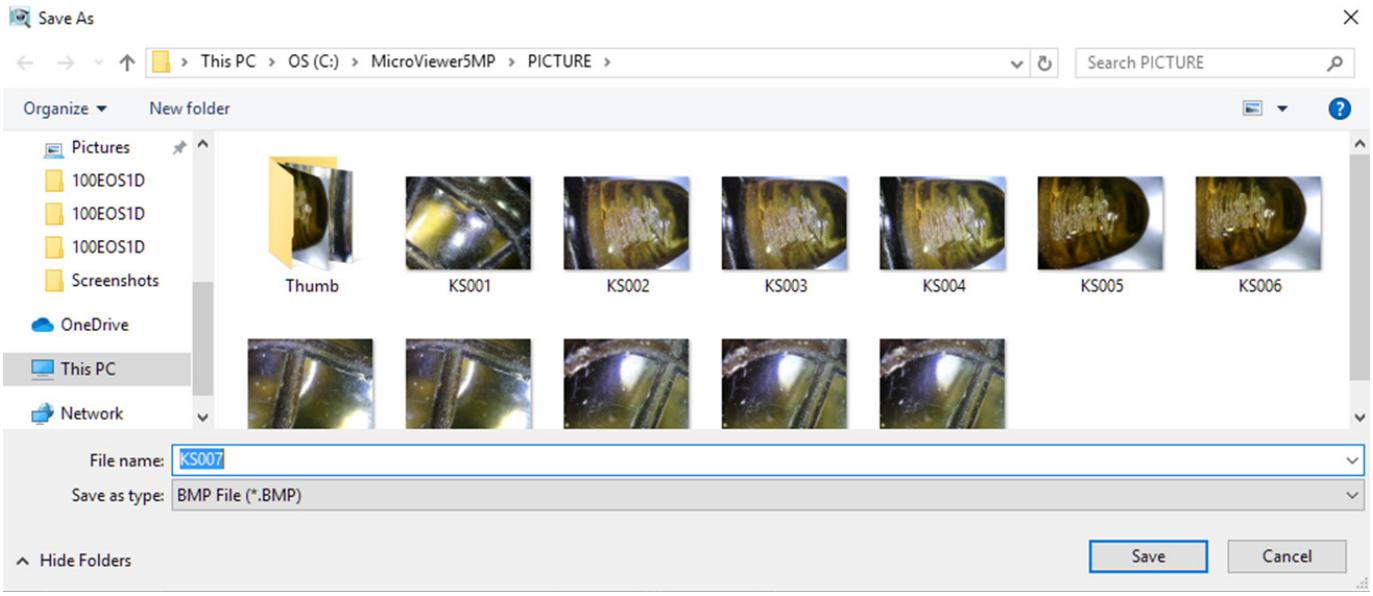


HOW TO SAVE MY IMAGES

If you want to change the location of where your videos are, click on the **Video Setup** button, then click the **BMP** (or **JPEG** if desired) button.

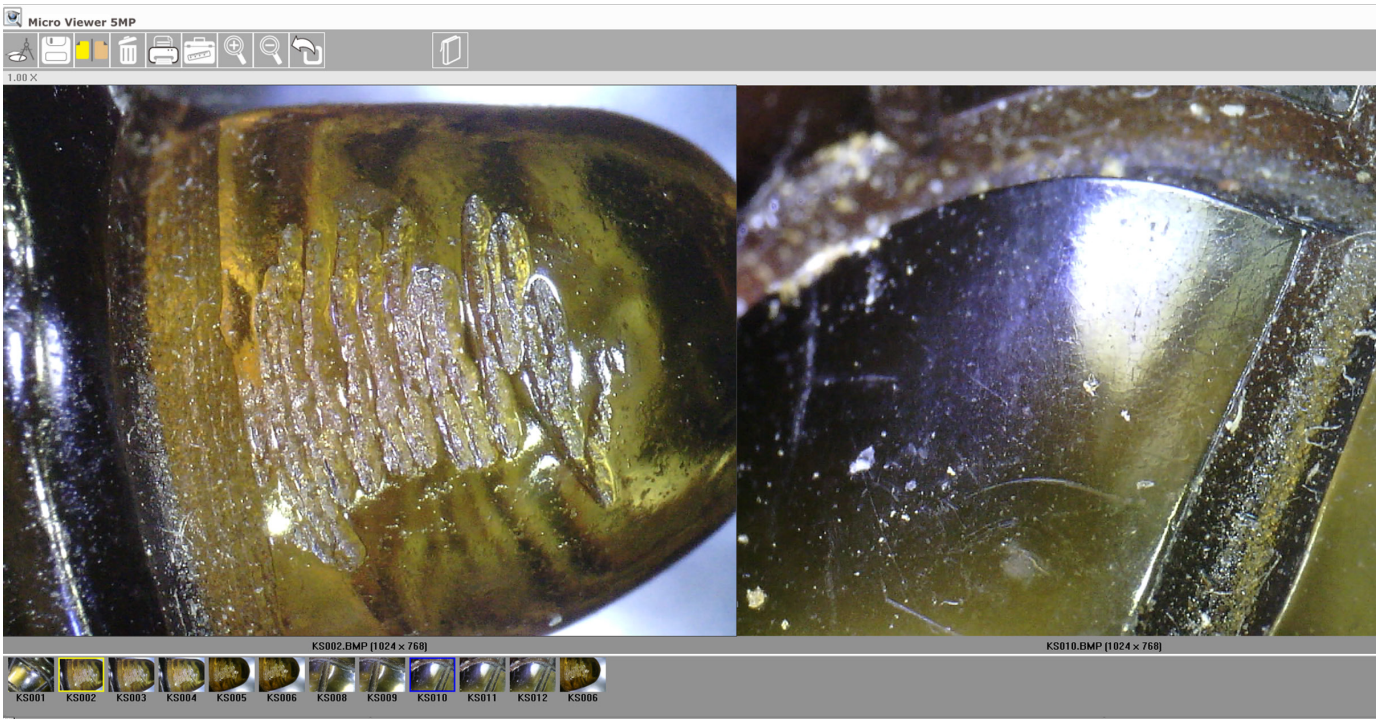


This **Save As** window below will pop up. You can create and choose individual student folders, class folders, subject folders etc. Select the folder you want the image to be saved in. You can choose to save all images to your desktop and then move them into the appropriate folders or redirect the software to send your images directly to a specific folder each time you take a video. Images may be saved as JPEG or PNG.



HOW TO COMPARE TWO IMAGES

Click on the **Compare** icon in the Tool Bar. You will see a wide black (or white) space appear on the screen. Select the image you would like to view from the File Browser located at the bottom of the window.



The first image you select will appear on the left when you double click the image. Next drag and drop the second image you'd like displayed into the right side of the compare screen (It's still black or white).

You can choose to save by selecting the **Save** icon or print by selecting the **Print** icon.

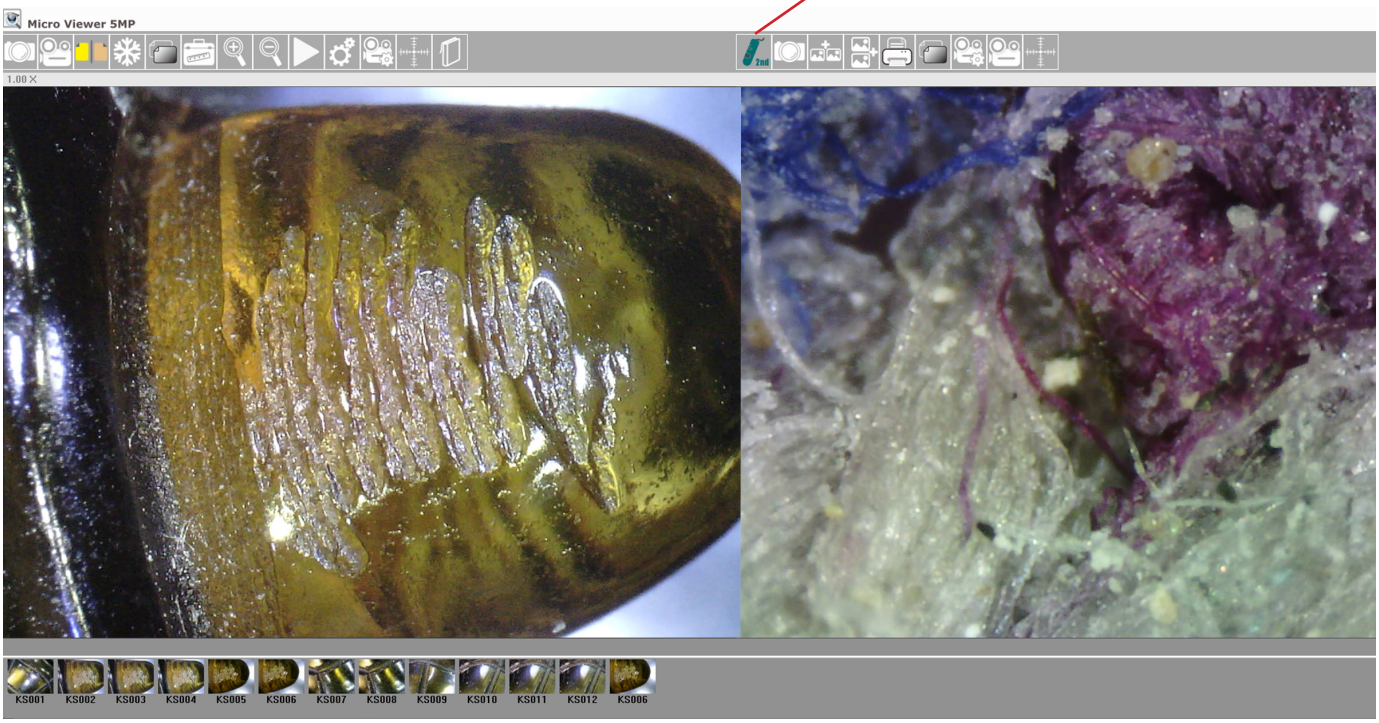
To return to normal viewing click on the **Compare** icon.

HOW TO COMPARE TWO **LIVE** IMAGES AT ONCE

This requires having two MicroSight microscopes. They must be the same Megapixel, but can vary in magnification capability. For example, you can use the 5MP 10-200x on one side while viewing with the 5MP 500x on the other.

Connect BOTH microscopes to the USB ports on your computer and THEN open the software.

Click on the **Compare** Icon in the Tool Bar. You will see a wide black (or white) space appear on the screen, but a second **Microscope** icon will be located at the top.



You can also view two live images in this manner.

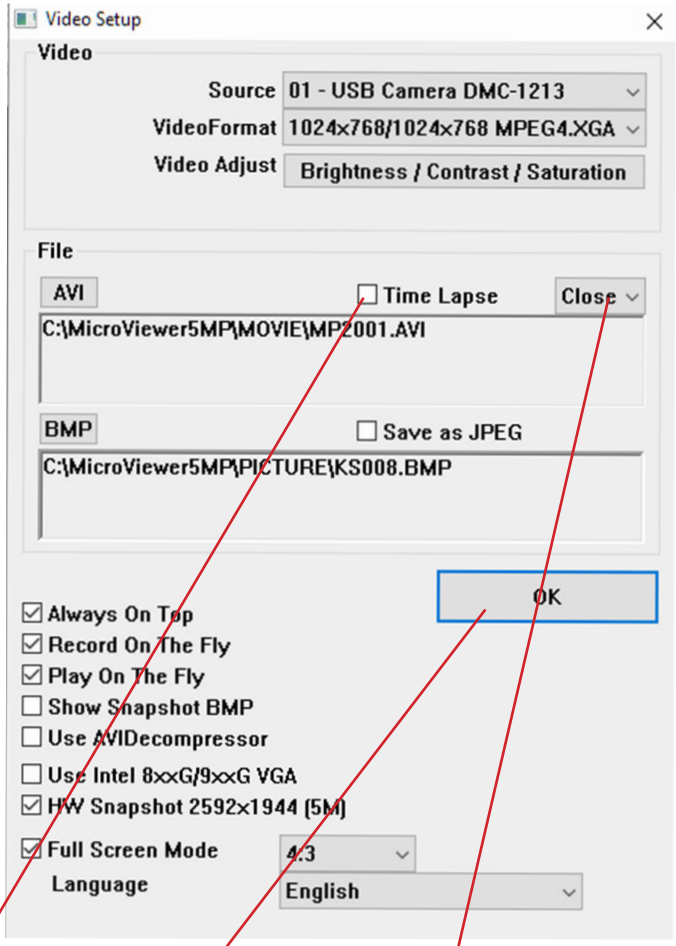
The first specimen you select will appear on the left when you double click the space. The second specimen you'd like to view will be displayed in the right side of the compare screen.

You can choose to save by selecting the **Save** icon or print by selecting the **Print** icon.

To return to normal viewing click on the **Compare** icon.

HOW TO CREATE TIME LAPSE VIDEO

Make sure the MicroSight microscope is plugged into the USB port and the software is open. Begin by clicking on the **Video Setup** button in the tool bar.



Select the **Time Lapse** option then click on the **Close** drop down menu to choose your setting.

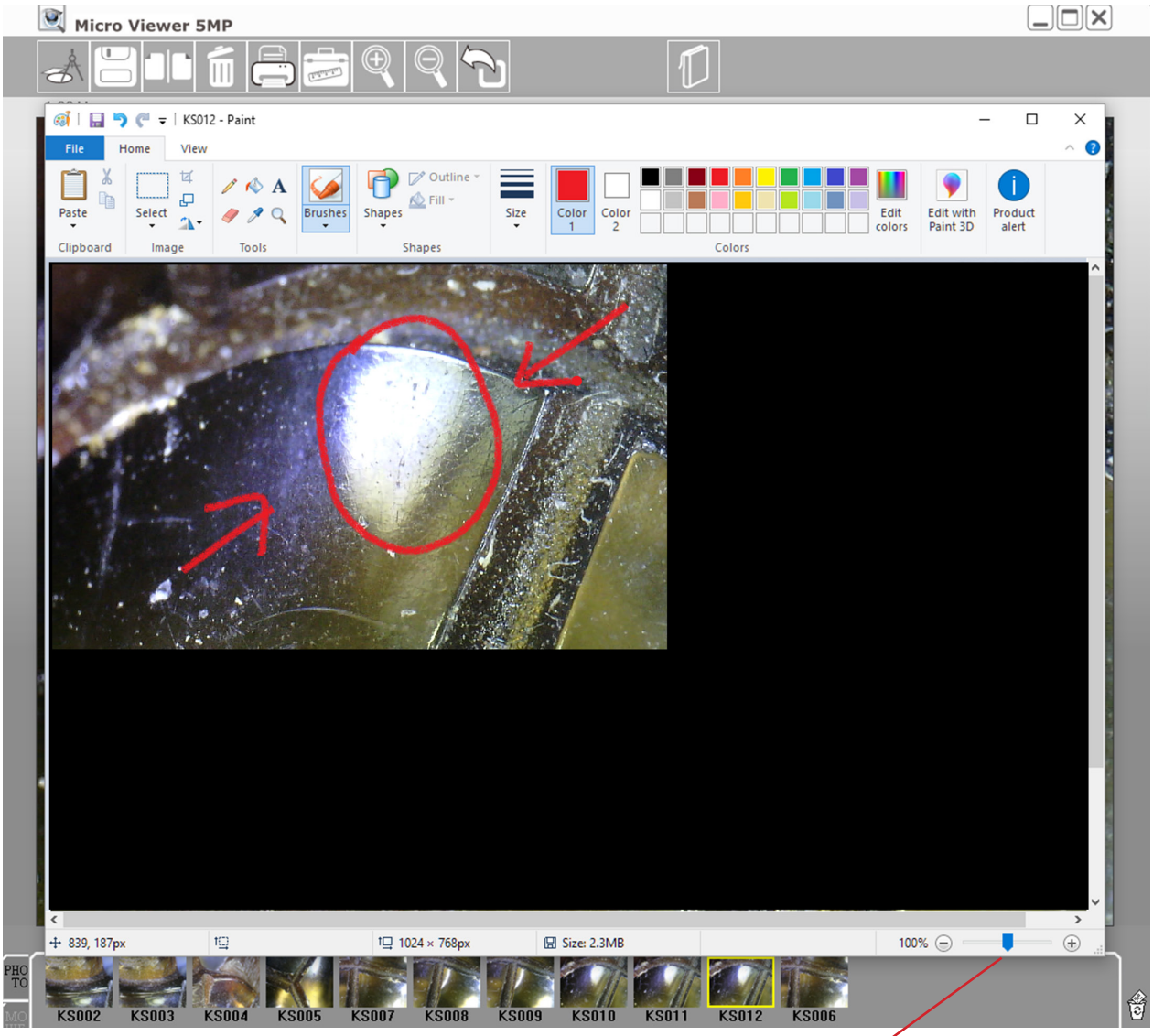
To select the time-lapse ratio, you may find this helpful. If you choose "5:1" only one second of every 5 seconds will be recorded. If you choose "60:1" only one second of every 60 seconds will be recorded, and so on.

WARNING: If you choose the time-lapse function, please make sure the recording time is longer than the ratio time. EX: Choose "60:1", the real recording time must be longer than 60 seconds.

Select the **Apply** button to save your settings.

HOW TO USE THE DRAW TOOL

Once you have a live image or a selected image, select the **Draw** icon in the tool bar. This window will pop up.



If your image does not fill the entire screen, select the enlarge slider to increase to the size of the image.

At this point, you can choose any of the choices at the top of the menu to draw, label, type, highlight, etc.

Remember to save your annotations by selecting the **Save** icon in the top left of the screen.

HOW TO CALIBRATE FOR MEASUREMENT

Make sure the MicroSight microscope is plugged into the USB port and the software is open.

1. Place the microscope down on any ruler and adjust the focus knob until the image is sharp.

2. Click the snapshot button to capture a picture, then double click this picture in the list bar.

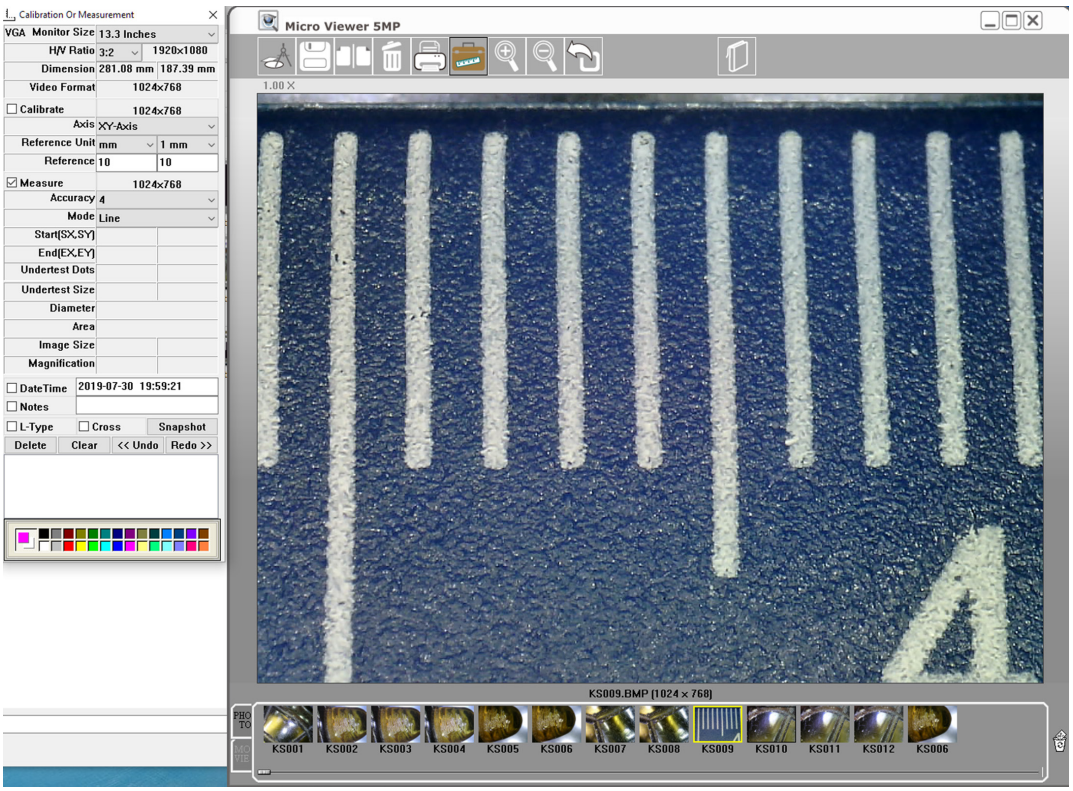
3. Click the **Measurement** icon, and the Measurement window will appear.
   NOTE: You must calibrate again if you change the distance, magnification, or resolution.

4. Check **Calibrate** and choose the **Reference Unit** and **Reference Size**, which is the largest dimension visible on your snapshot. Ex: The largest dimension available between 3 centimeters and 4 centimeters is 10 millimeters. Therefore, choose the "mm" as the **Reference Unit** and choose "10" as the **Reference size**.

5. Hold the right button of the mouse at the 3rd centimeter line and drag it to the 4th centimeter line.

6. Release the right button of the mouse and the calibration is complete. Click the **Measurement** icon to go back.

7. Now you can begin measuring. Double click on any saved image or place the microscope on any specimen and click the **Measurement** icon.



UNDERSTANDING THE MEASUREMENT WINDOW

1.
Choose the VGA monitor size.

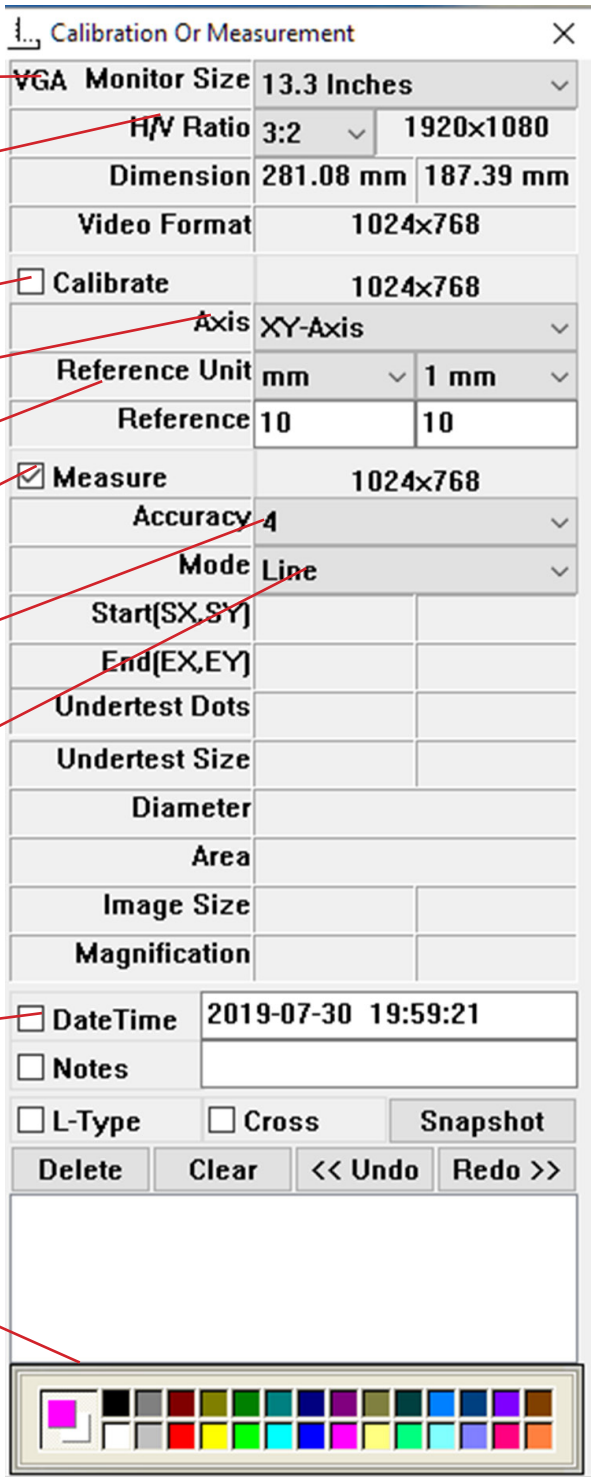
2.
Select your monitor's correct aspect ratio to ensure accurate measurements are made.

3.
a. Select the Calibrate box.
b. Choose the axis:
X axis, Y axis, X-Y axis
c. Select the reference unit of measurement for calibration.
(mm, inch, mil)

4.
a. Select the Measure box.
b. In the Accuracy box, the number is accurate up to 9 decimal points. Select the most appropriate accuracy.
c. Choose the measurement Mode (line angle, circle, etc.)

5.
You can choose to date the measurement or add notes.

6.
Choose the color of the line and the words. After making the selections, click the Snapshot button or the save button to save the measured picture.



HOW TO MEASURE A LINE

Make sure the MicroSight microscope is plugged into the USB port and the software is open. Place the microscope down on any ruler and adjust the focus knob until the image is sharp.

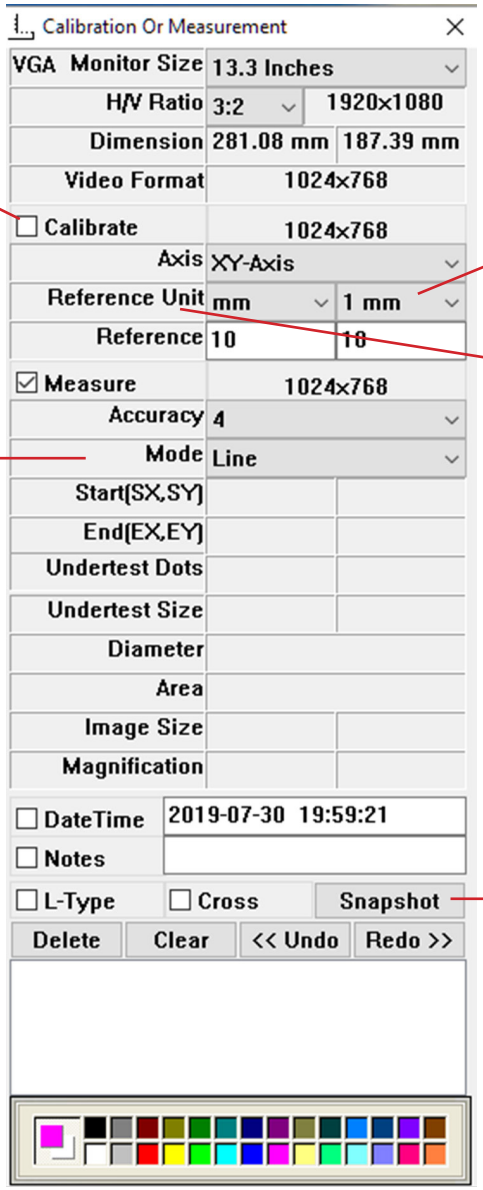
Click the **Measurement** icon, and the Measurement window will appear.
NOTE: You must calibrate again if you change the distance, magnification, or resolution. Follow the full calibration directions on page 16.

Select **Calibrate**

Change the **Reference Unit** as desired. (inches, mm, cm, etc.)

Change the **Reference** to 10 when using cm to calibrate the microscope.

Select the **Line Mode**



Save the new settings

Touch your MicroSight microscope to your specimen. Click the **Measurement** icon on the **Tool Bar**. The cross hairs will show on the screen. Move the line to frame the top left of the image. The measurement represents the diameter as **D** and the Area as **A**.

After you have made your measurement, click the **Snapshot** button or the **Save** button to save the measured image.

HOW TO MEASURE AN ANGLE

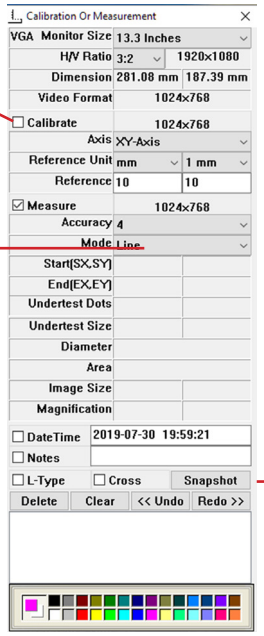
Make sure the MicroSight microscope is plugged into the USB port and the software is open.

Place the microscope down on any ruler and adjust the focus knob until the image is sharp.
NOTE: When measuring an angle, it is best to focus on the actual item you want to measure when calibrating.

Click the **Measurement** button, and the Measurement window will appear.
NOTE: You must calibrate again if you change the distance, magnification, or resolution. Follow the full calibration directions on page 16.

Select **Calibrate**

Select the **Line Mode** to **Angle Mode**



Save new settings

Touch your MicroSight microscope to your specimen. Focus. Click the **Measurement** button on the **Tool Bar** and the image will freeze. **Right click the mouse and drag down the right side of the angle to get the outside measurement. Right click and drag down to the left to get the inside measurement.**

inside measurement

Right click the mouse and drag down the right side of the angle to get the outside measurement. Right click and drag down to the left to get the inside measurement.

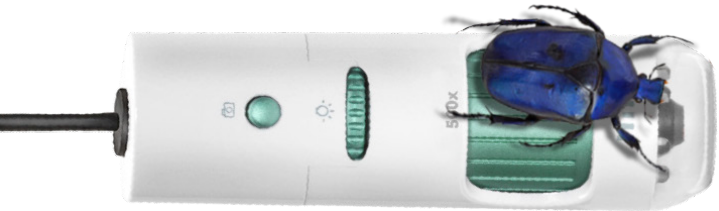
outside measurement

Release the mouse and right click again where you left off and drag to the opposite side of the angle.

After you have made your measurement, click the Snapshot button or the Save button to save the measured image. Click the back button to return to a live screen.

TROUBLESHOOTING
QUESTIONS & ANSWERS

For technical questions, compatibility issues,
or other wonderings, please reach out to us.
We pride ourselves on supporting you 110%.

carol@southernsciencesupply.com
877.968.7522
(cell)210.887.0479

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