



Microscope VIS Pro: Quick set-up guide

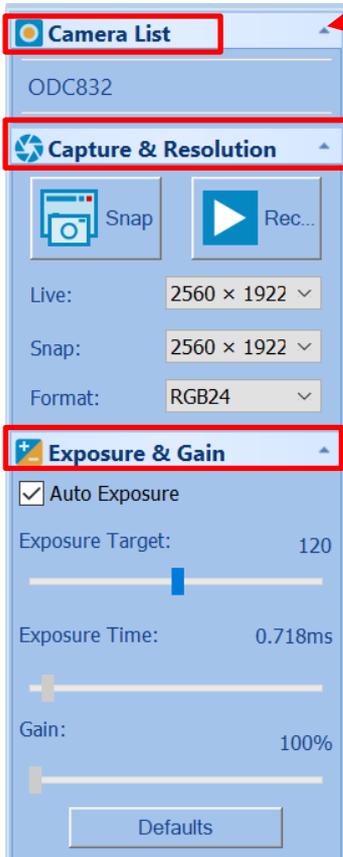
(Version: 02/2024)

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1. First steps

The software includes a sidebar on the left with all necessary adjustment option-groups to begin the initial setup. You can open these groups by clicking on the small arrows or by clicking on the group name.



→ Under 'Camera list' you can find your connected camera. To start the live stream, click on the camera directly. Make sure that the beam path on your microscope is switched to the trinocular view.

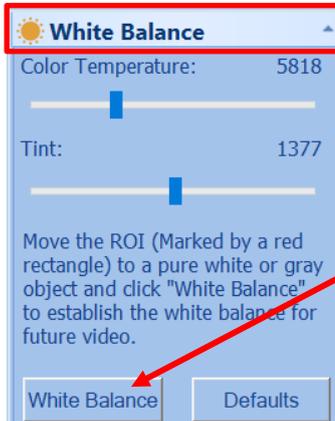
→ Under 'Capture & Resolution' you can set the resolution for the Live video resolution, as well as the snapshot resolution settings and the format. Via 'Snap' you can take a picture and via 'record' you can start recording a video.

→ When the Exposure & Gain group is expanded a green rectangle marked with Exposure will be overlaid on the video window. The exposure is set on 'Auto Exposure' by default which is what we normally recommend. You can also uncheck the auto exposure if you want to adjust the exposure manually. Drag the green rectangle to the darker areas if you want to increase the video brightness and drag it to the brighter area if you want to decrease the video brightness.

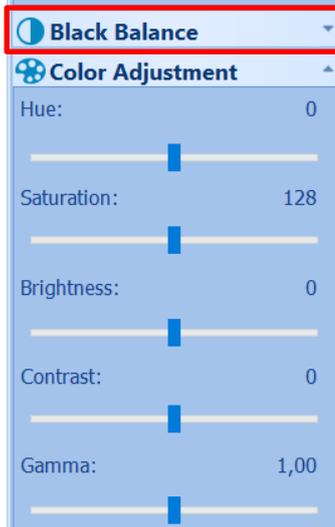


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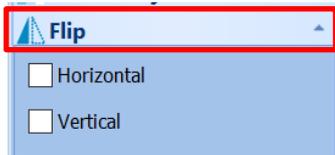
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→ On the 'White Balance' group you can adjust color temperature and tint. We recommend using the automatic white balance adjustment.



→ On 'Color Adjustment' you can manually adjust hue, saturation, brightness, contrast and gamma by pulling the bars.



→ If your image is mirrored or rotated differently, you can adjust it here.



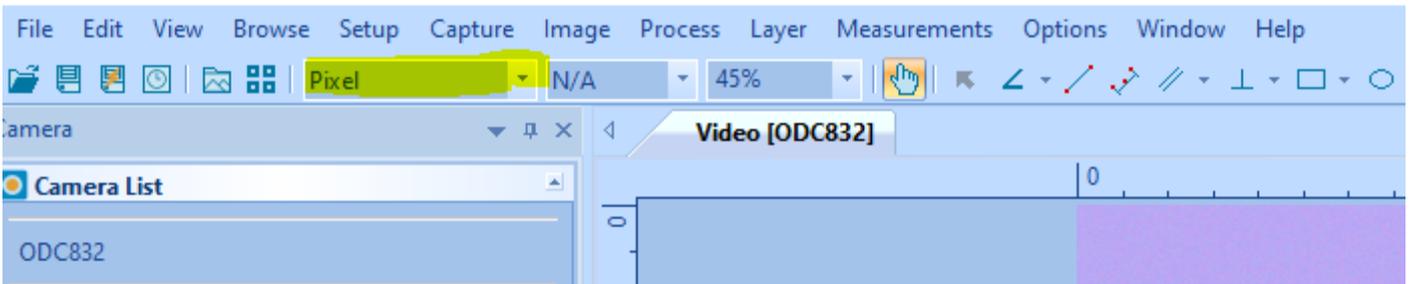


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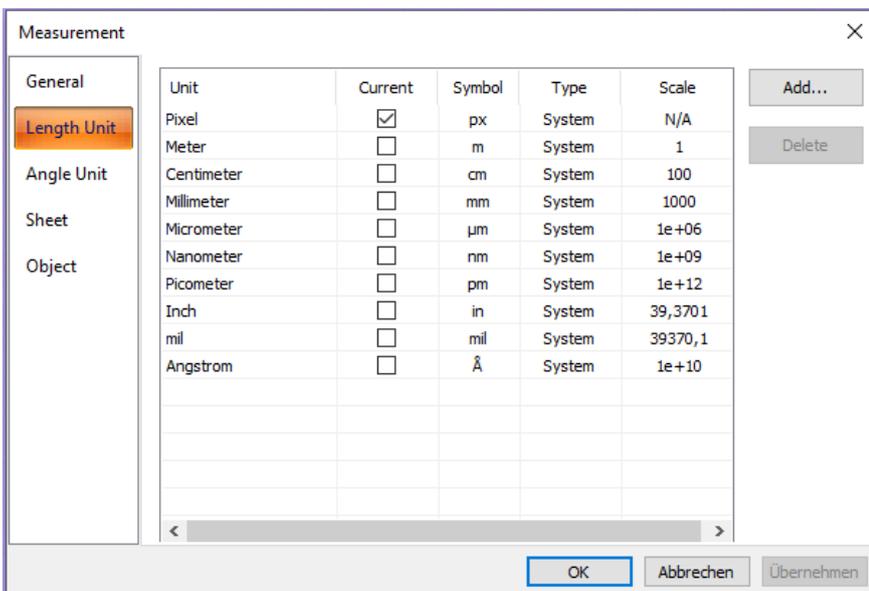
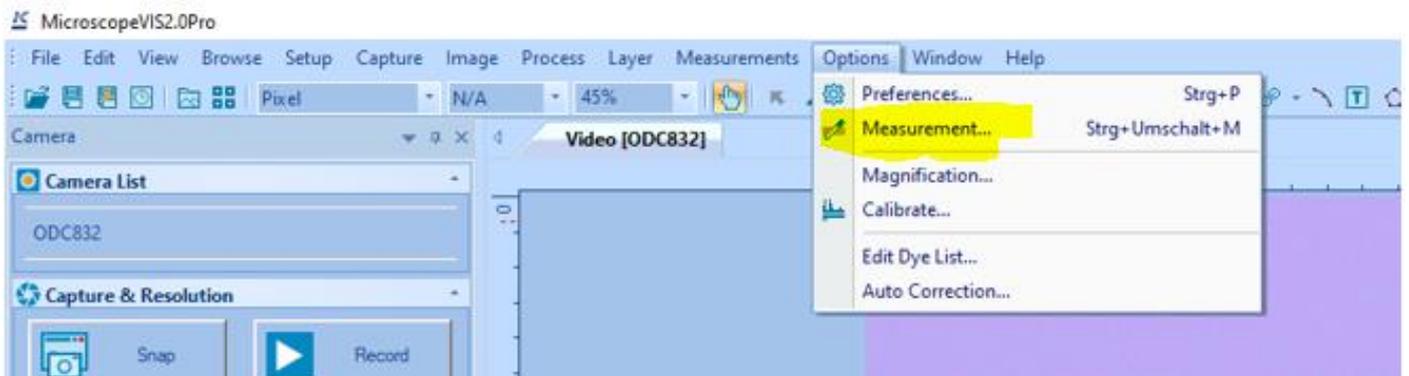
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2. Length units

The default setting upon installing the software is that the unit is shown in 'Pixel'.



This can be re-set here under [Options>Measurement](#):





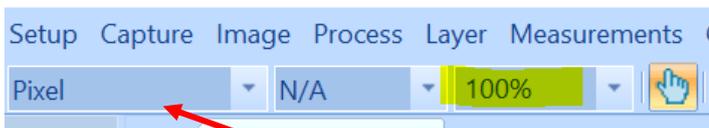
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3. Calibration

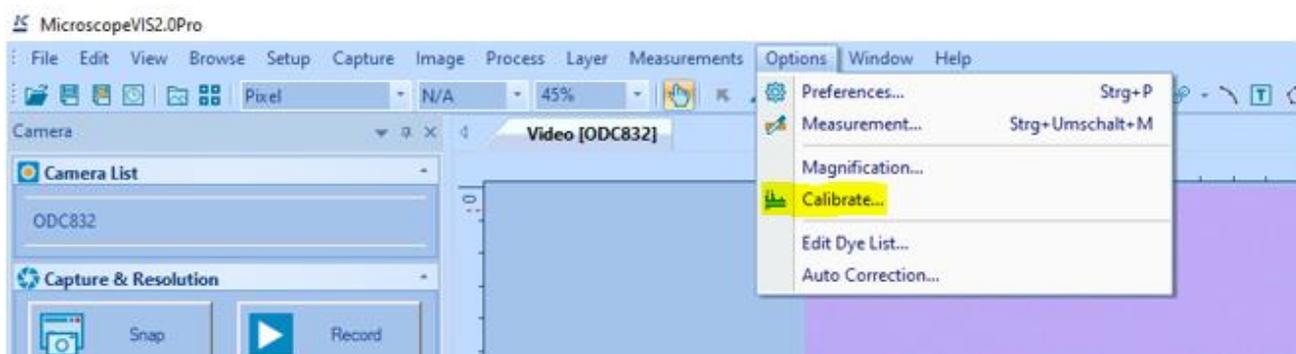
In order to do any measurements, it is important to first calibrate the software according to each magnification that is used on the microscope. To do this, a micrometer slide is included in the scope of delivery of your camera.

Switch your microscope to the desired magnification and put the micrometer in the middle of the field of view and focus in on the ruler. Also switch your zoom ratio to 100%. This zoom ratio can later be adjusted and the calibration values will automatically be adapted so the measurement is still correct.



What kind of measurement unit is set here, does not matter in this step. This unit will likely have changed to the length unit which you have set previously.

In order to start the calibration, click on the [Options>Calibrate](#) command or click on the symbol  on the toolbar.

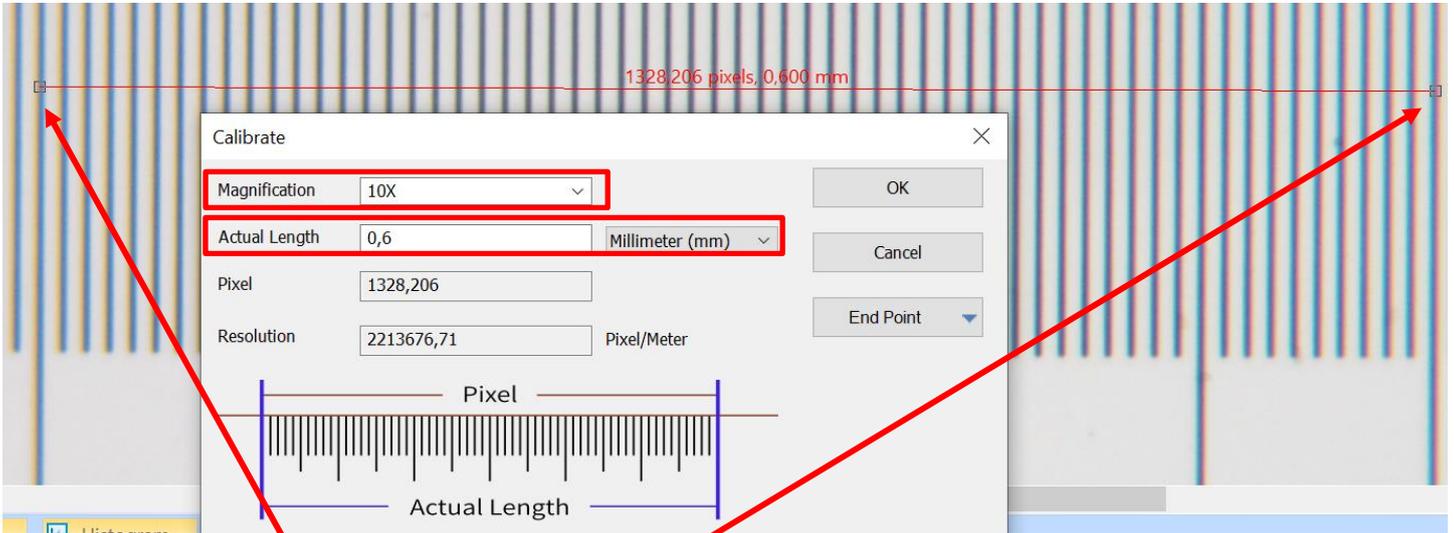


A red line with pixels number and the currently set length unit is overlaid on the video window and the calibration window opens.

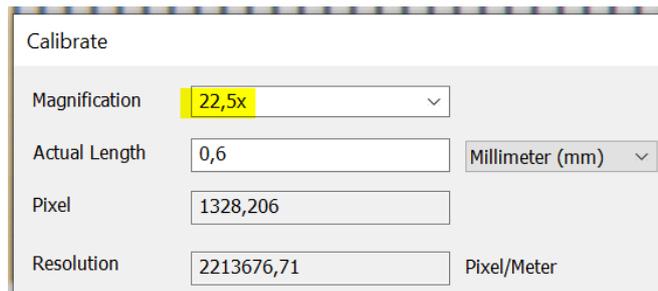
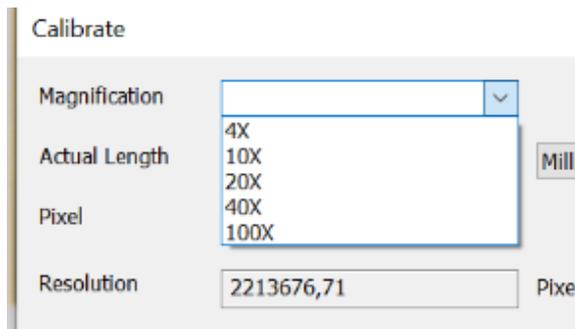


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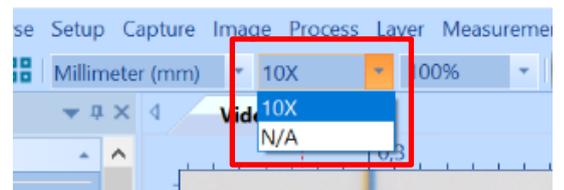


- Try to align the two ends of the red line with the ruler scale (try to pull the red line as long as possible to keep the calibration accuracy).
- Enter or select the current microscope magnification. You can either use the dropdown menu to select a magnification or simply write in your desired magnification (if you are using a stereo microscope for instance).



- If everything is set correctly, click 'OK' to end the calibration. The magnification 10X (this is the number I entered) will be available in the magnification dropdown box on the video window toolbar now.

Important: Repeat this calibration step for each magnification you want to do measurements in!



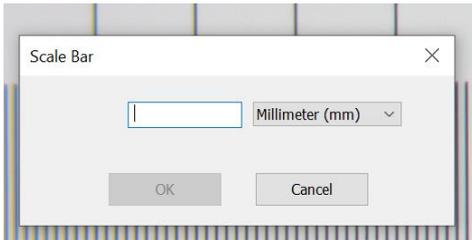


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4. Setting a scale bar

Select **Measurements>Scale Bar** or click the symbol  on the toolbar and it will bring up a scale bar window.



Put the desired scale length in the edit box to determine the scale bar length. The unit is chosen according to the current length unit in the **Options>Measurement>Length Unit** page and the set calibration.

After clicking 'OK' the scale bar will show up in your open video tab. You can move it wherever you like. On the lefthand side, in the tool bar you will have options to adjust the scale (text and color, font size, etc.).

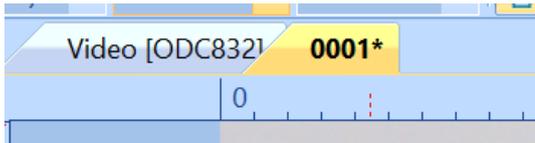
[-] Appearance	
Line Width(%)	100
Line Color	■ ff0000
Font Size(%)	100
Font Weight	Normal
Text Color	■ ff0000
Transparent B...	True
Background C...	■ ffffff
Rotate	0°
H Style	Yes
Length	99px
[+] Geometry	
[+] Intensity	
[-] Coordinates	
Start.X	275
Start.Y	295

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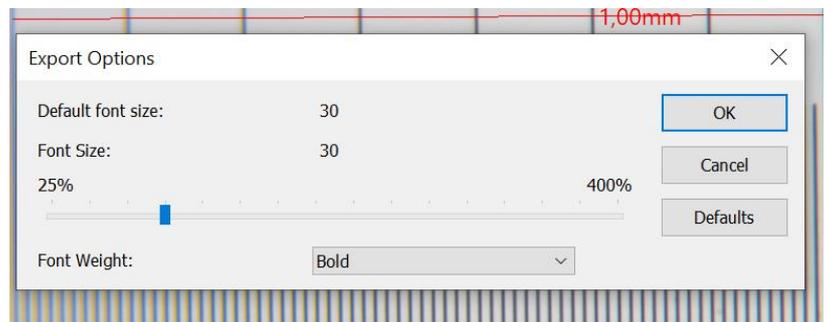
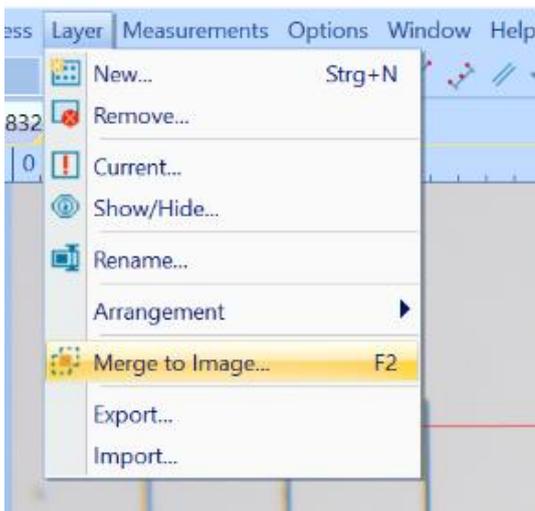
5. Saving Images with measurements or scales in them

Once you've taken a snapshot of your image, this picture will open up in a separate tab:

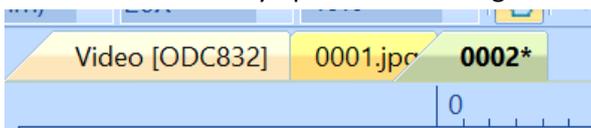


The software works with different layers, so your image is one layer and your measurements and scales, comments, etc. are separate layers.

If you want to save the image with the scale bar or measurement in it, you must merge together the different layers. In order to do so, you select [Layer>Merge to image](#). A window will open.



You can adjust the font size and style in which it should be merged onto the image layer and click 'OK'. This will automatically open another image tab with the image, now will all layers merged together:



Now the image can be saved with the measurements, comments, and documentation.