

Create Calibration File

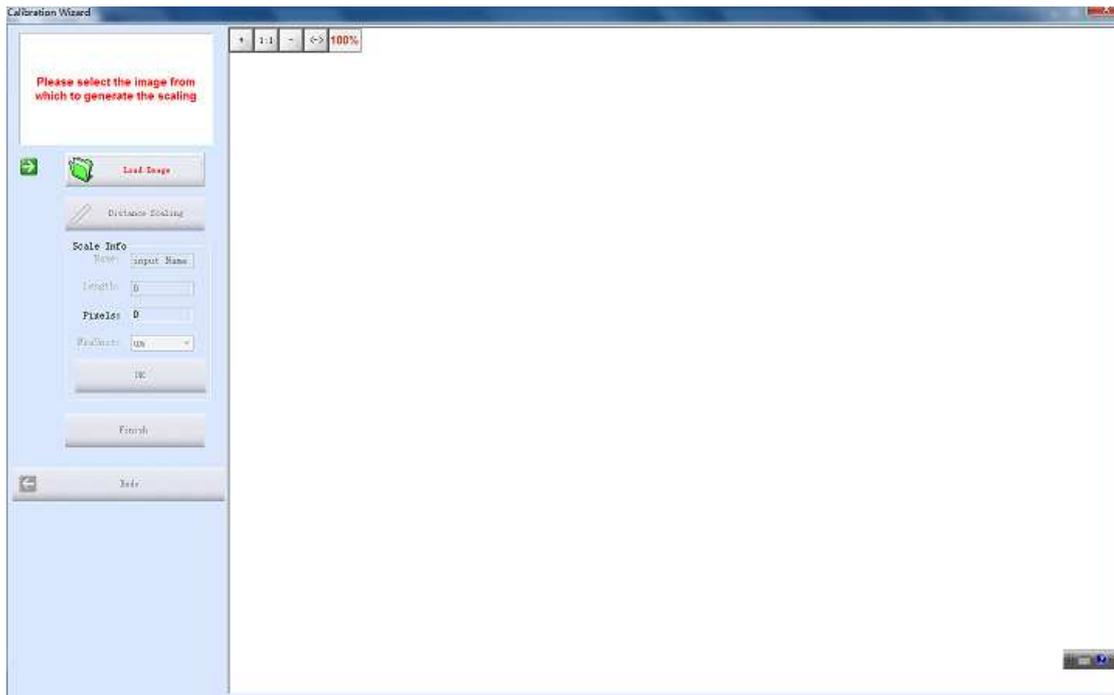
To measure the samples real size, the corresponding calibration file needs to be created first.

1. Take pictures of the calibration slide in all the required working objectives and resolution (if a reducing lens is also used in your application, it also requires you to take the calibration slide picture with the reduce lens attached).

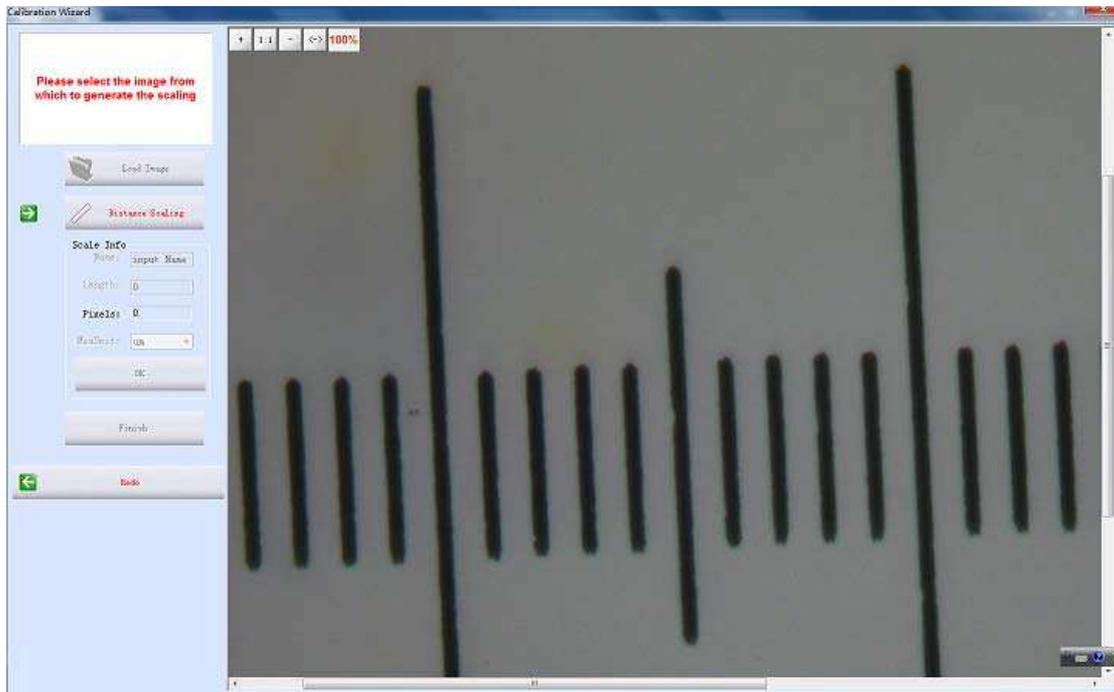


If **ONLY ONE** objective and **ONE** resolution is used in the application, one calibration slide picture is enough. The calibration slide picture **MUST** be taken with exactly the same lens or microscope settings as the target image taken.

2. Click  to start to create calibration file.



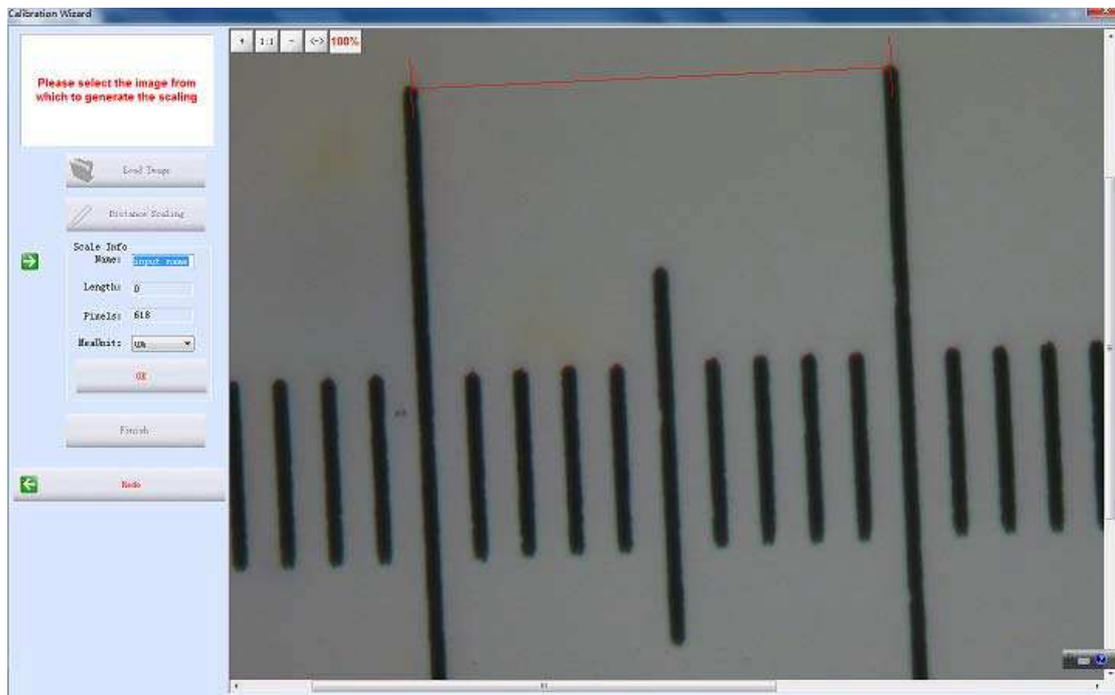
3. Click [Load Image] to load the calibration slide picture taken in Step 1.



4. Click [Distance scaling] and move the cursor to the slide image, draw a line to get the reference length.



Using **longer** length as the reference length will give more accurate measurement results. For example, using 10 scale units as reference length will give more accurate result than using 1 scale unit.



5. Enter the name for the calibration file and the length of the line you draw.

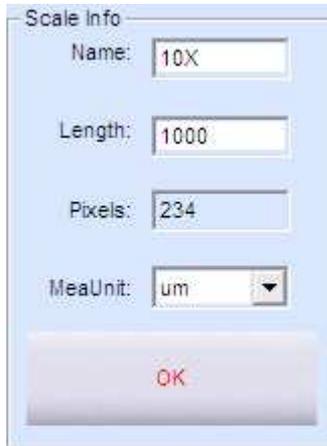


If you need more than one calibration file, using **objective+reducing lens(if it is used)+resolution** as the name of the calibration file is recommended. This can help to prevent using the wrong file to do the calibration.



When keying in the length, please pay more attention to the calibration **scale unit** and the **Measure Unit** used here. For example, the calibration scale unit is 0.1mm; the Measure Unit is selected as μm ; and

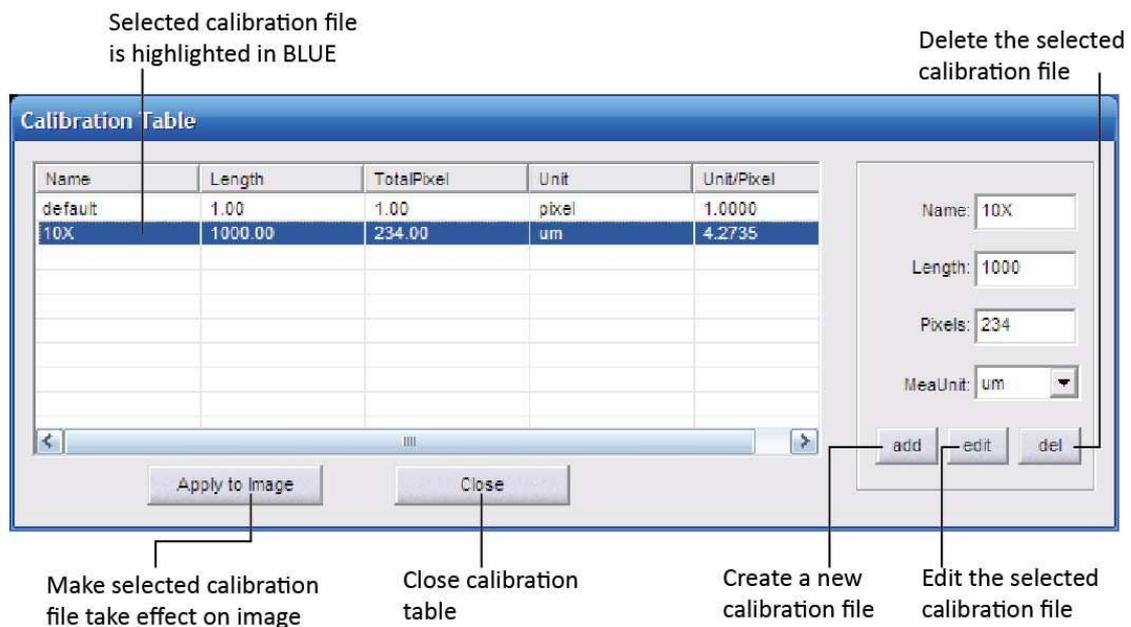
the reference length is 10 scale units, so the length should be 10 x 0.1mm x 1000 = 1000 μm.



A dialog box titled "Scale Info" with the following fields: Name: 10X, Length: 1000, Pixels: 234, and MeaUnit: um. An OK button is at the bottom.

6. Click [OK] to confirm the calibration. The new calibration file named "10X" is created in the [Calibrate Table].

Calibration Table



The Calibration Table dialog box contains a table with the following data:

Name	Length	TotalPixel	Unit	Unit/Pixel
default	1.00	1.00	pixel	1.0000
10X	1000.00	234.00	um	4.2735

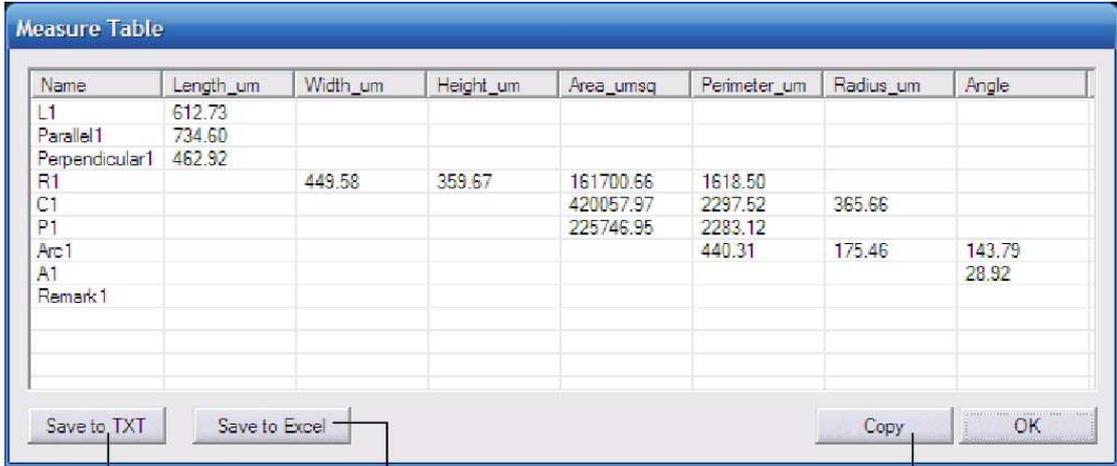
Annotations for the Calibration Table:

- Selected calibration file is highlighted in BLUE (points to the "10X" row)
- Delete the selected calibration file (points to the "del" button)
- Make selected calibration file take effect on image (points to the "Apply to Image" button)
- Close calibration table (points to the "Close" button)
- Create a new calibration file (points to the "add" button)
- Edit the selected calibration file (points to the "edit" button)

- Click  [Calibrate Table] to open the calibration table.
- Select the correct calibration file for current image measurement.

 Using the **WRONG** calibration file will make the measurement result **innacurate**. Please make sure the calibration file is correctly corresponding to the current image. Hence, it is useful to name the calibration file with the capturing settings or objective name.

Measurement List



The screenshot shows a window titled "Measure Table" containing a table with the following data:

Name	Length_um	Width_um	Height_um	Area_umsq	Perimeter_um	Radius_um	Angle
L1	612.73						
Parallel1	734.60						
Perpendicular1	462.92						
R1		449.58	359.67	161700.66	1618.50		
C1				420057.97	2297.52	365.66	
P1				225746.95	2283.12		
Arc1					440.31	175.46	143.79
A1							28.92
Remark1							

Below the table are four buttons: "Save to TXT", "Save to Excel", "Copy", and "OK".

Export the measurement data to .txt file

Export the measurement data to Excel file

Copy all the measurement data to a file: txt, word or excel.

All the measurement data is listed in the [Measurement List]. The software allows you to export all the measurement data to **TXT** or **Excel file**.