

# HAYEAR Microscope Software Manual

For saving 3M won for Olympus camera!!

## •Contents

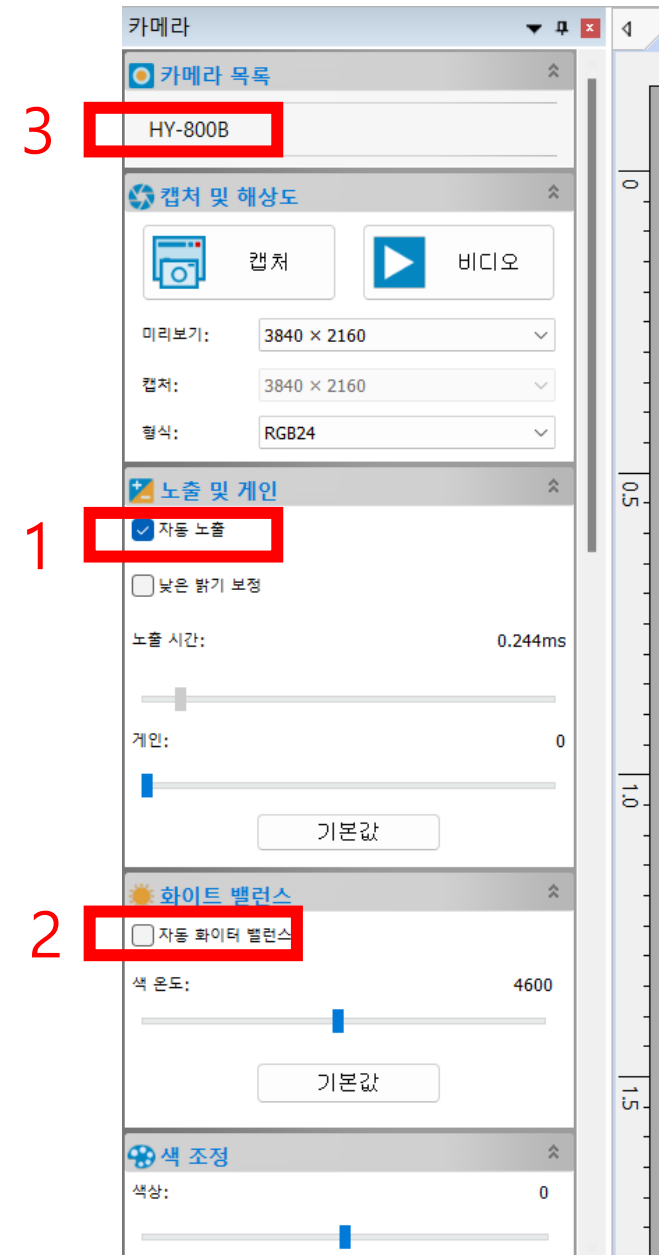
- Software setting
- White balancing
- Scalebar insertion

# Software settings before capture

- Check Auto exposure (1)
- Uncheck auto white balance (2)
- Click camera model (3)
- And use default settings

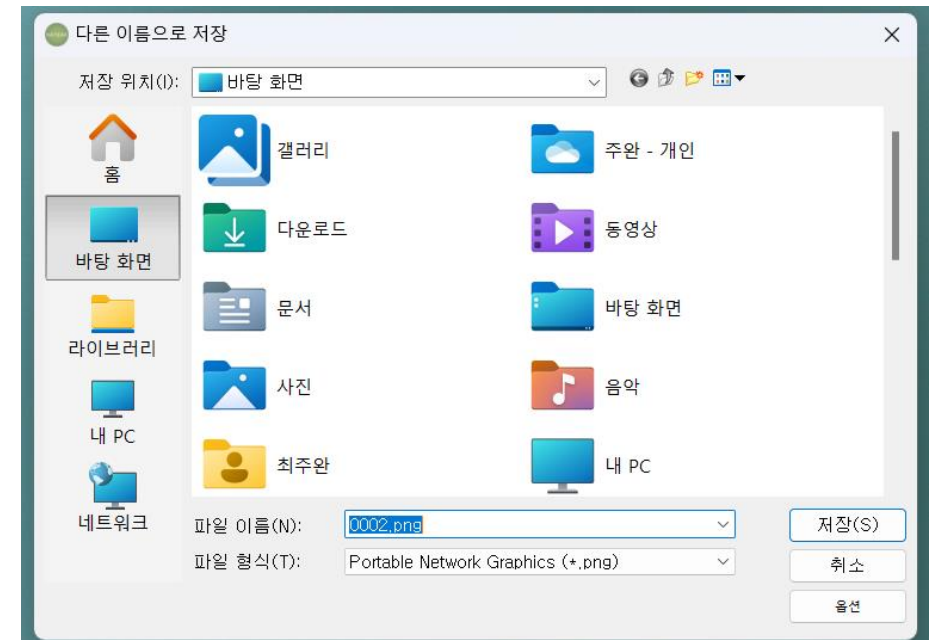
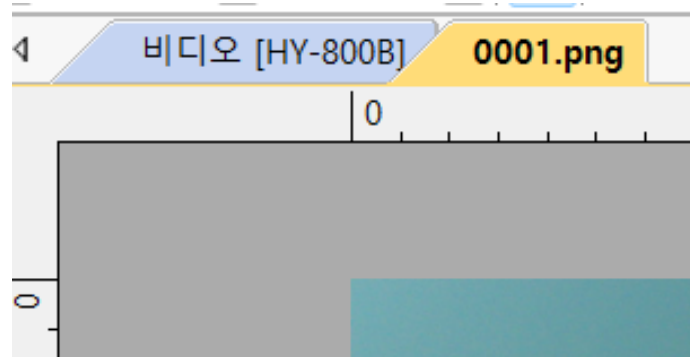
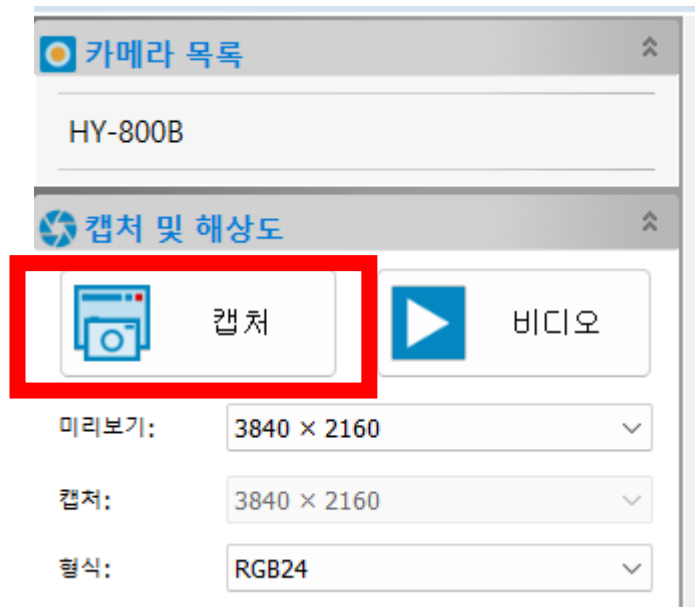


Hayear Camera software is in the taskbar.



# Capture images

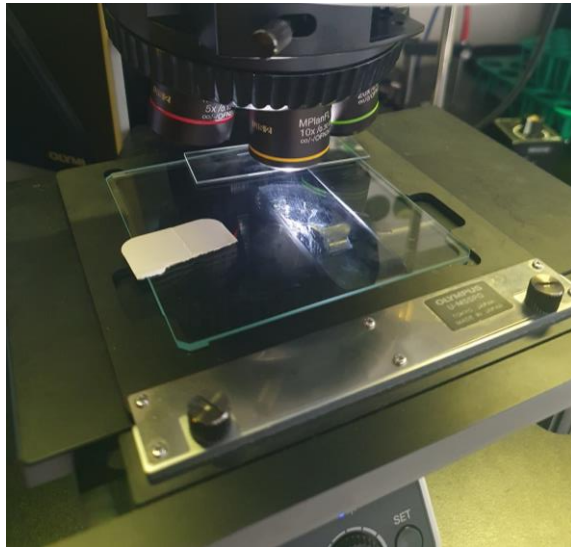
- Press F8 or 'Capture' button
- Go to figure and press Ctrl + S and
- Select location and save as 'png' or 'jpg'



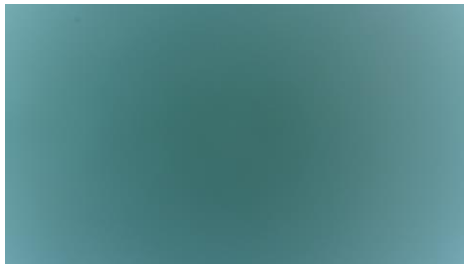
# White balancing - Capturing reference image

There is ref file already. You can use it.

- Transmission mode  
Capture w/o. sample



Result



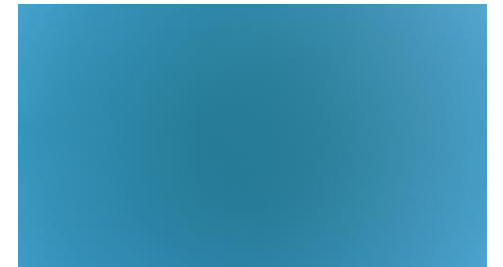
Save it as 'trans\_ref.png'

- Reflection mode  
Capture unfocused white paper

White paper



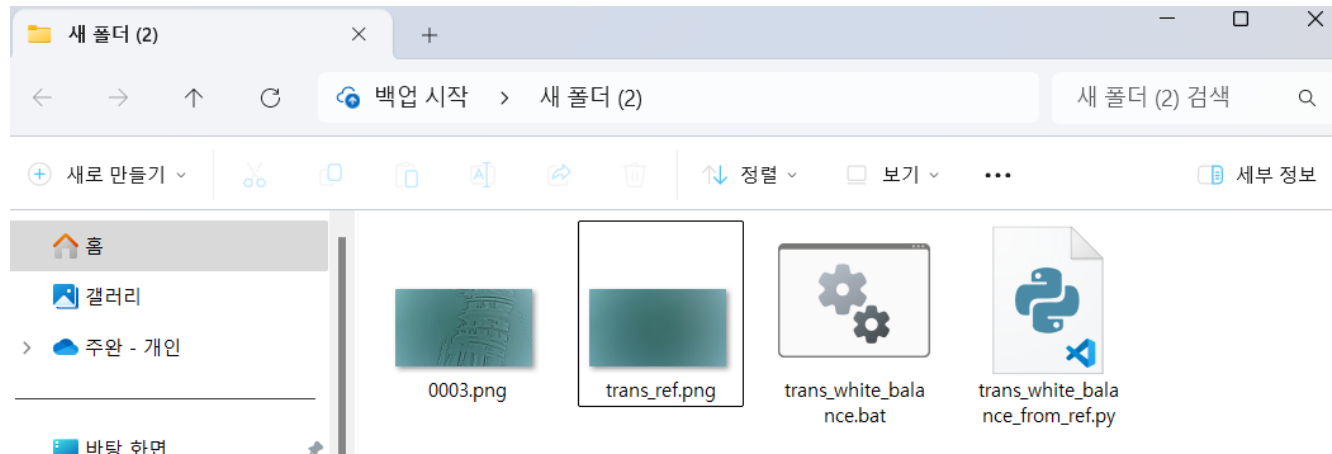
Result



Save it as 'refl\_ref.png'

# White balancing / transmission type

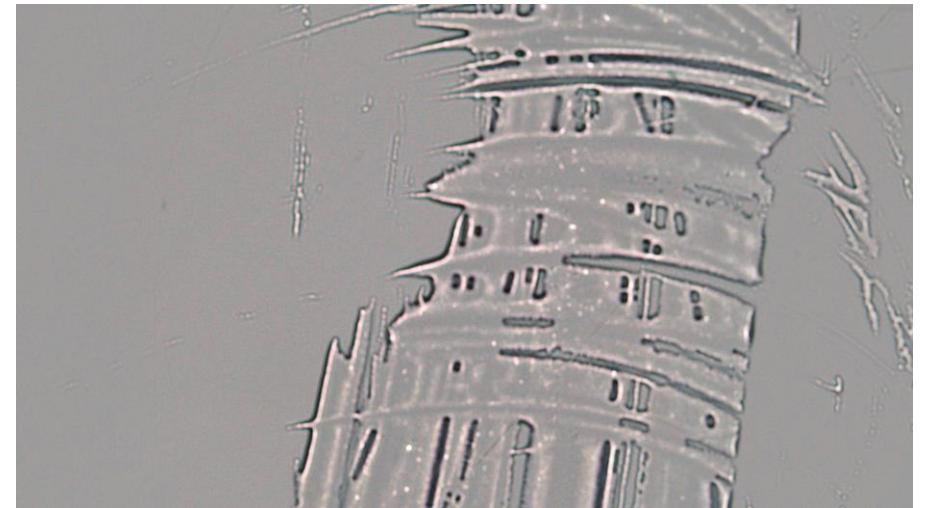
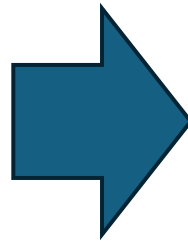
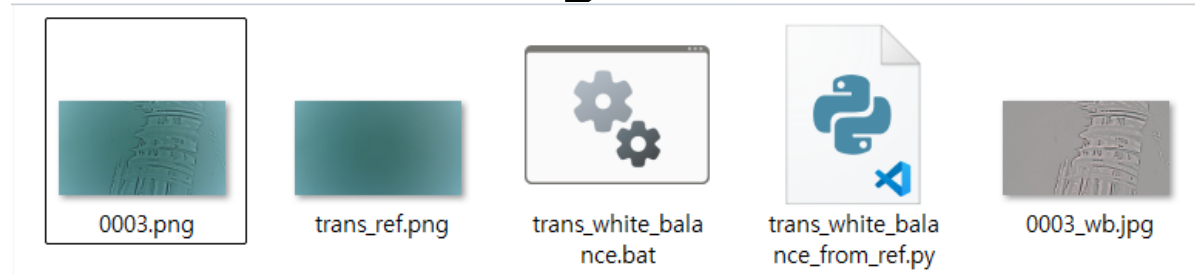
- Divide the captured images by reflection/transmission type
- Gather captured images, white balancing program, and reference image in a location (folder).



- Double click the bat file

# White balancing / transmission type

- White balanced files (\_wb) are generated





# White balancing / reflection type

- You can do this for reflection type images in the same way



0005.png



0005\_wb.png



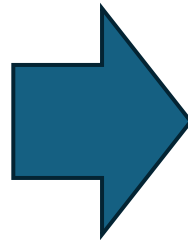
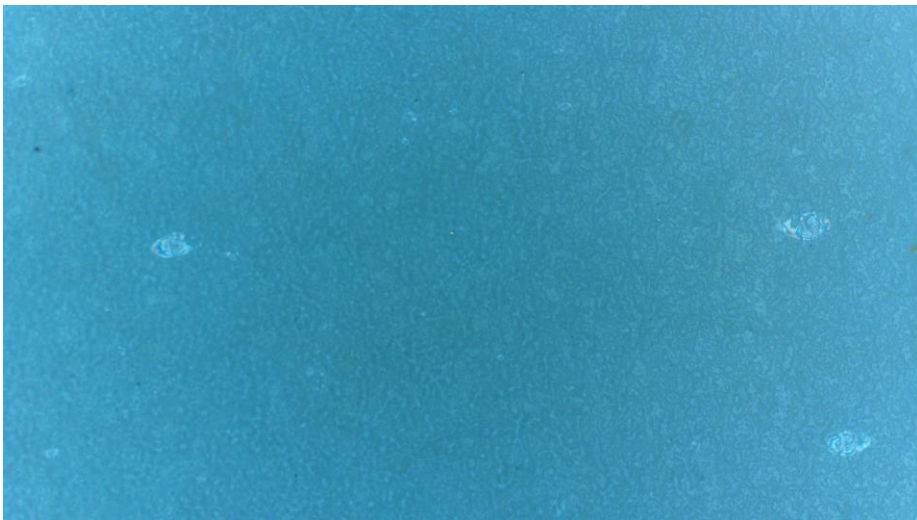
refl\_ref.png



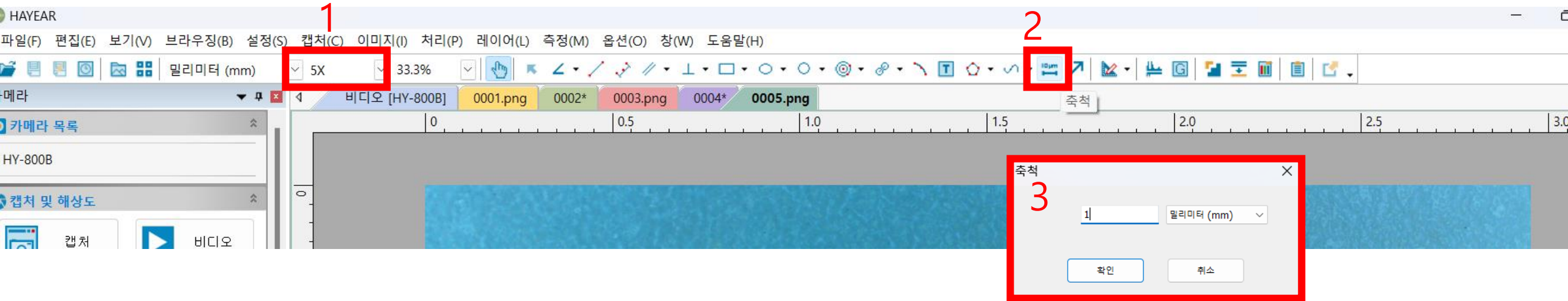
refl\_white\_balanc  
e.bat



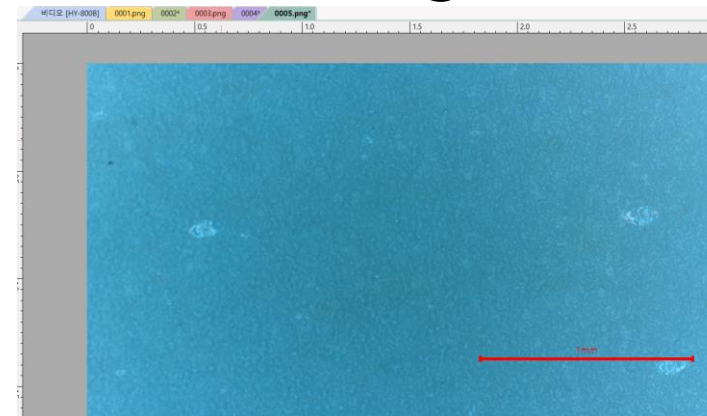
refl\_white\_balanc  
e\_from\_ref.py



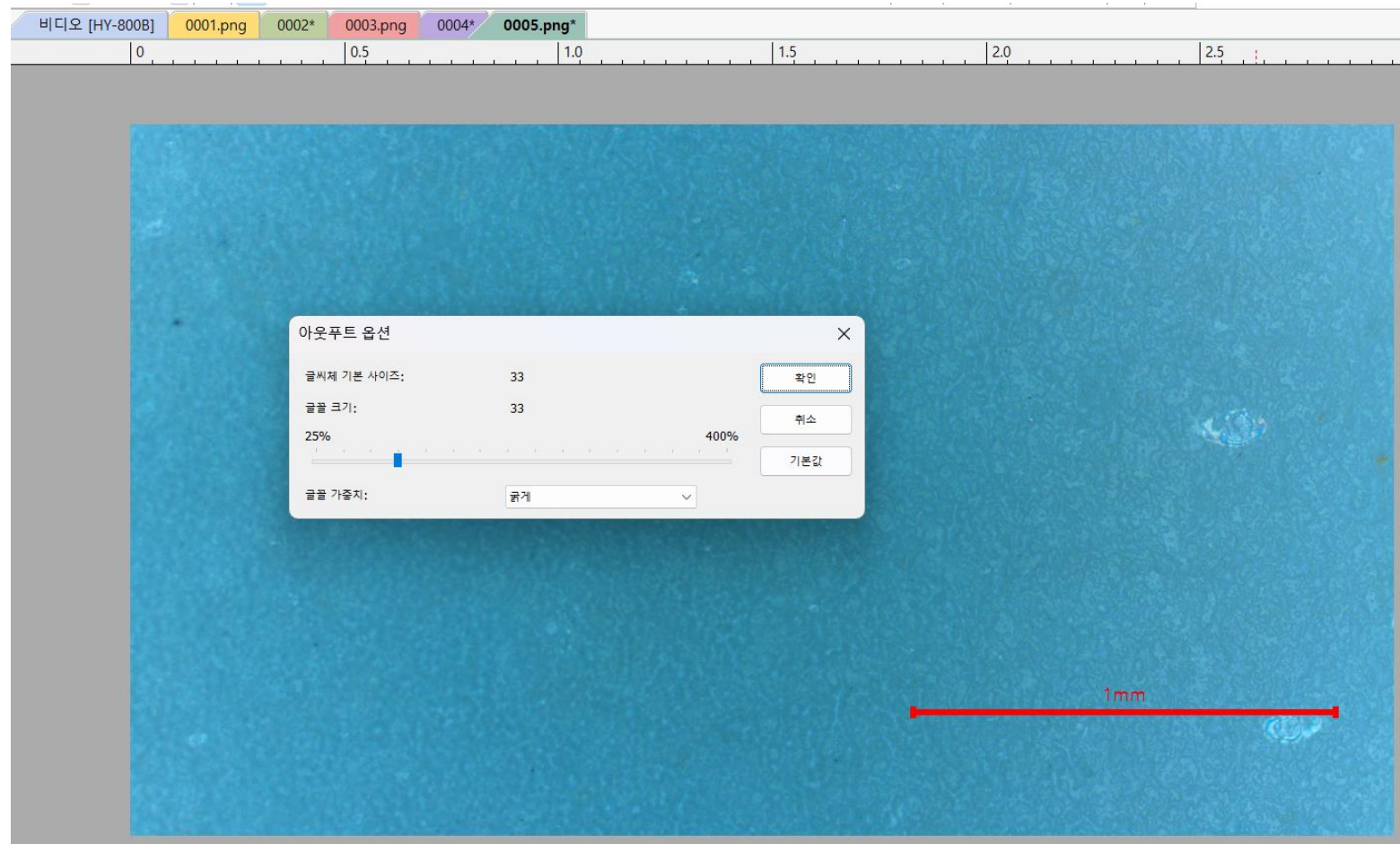
# Scalebar insertion



- Set the objective lens magnification option. (1)
- Click scalebar button (2) and type desired length. (3)
- Go to the image and press F2.







- Press enter. Now a new image with a scalebar is generated.
- **Caution!** If you change the magnification of the objective lens, you should change the magnification option, too.