

Zeiss Axioskop Instructions

Need to schedule a time to use the Zeiss Axioskop in 873A? Go to the BYU chemistry page website www.chem.byu.edu. Once there click on **Schedule Department Resources** under Department Web Utilities on the left hand side of the page. From here log on (see the lab technician or your professor for a log on user-name and password). Once logged in, click on **Instruments**, and then **Zeiss Axioskop**. To reserve a time just click on the hour you want to reserve the microscope (unless someone else has already signed up) and pick the length of time to reserve the instrument.

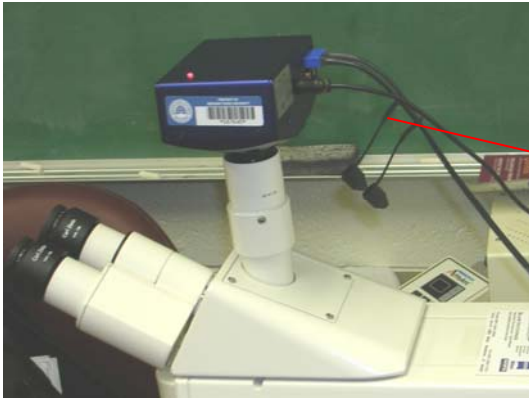


1. Turn on computer and monitor.
2. Remove blue microscope cover.
3. Turn on microscope (switch located on rear right of microscope.)



On and off switch.
Turn on to use, and
turn off when finished
before covering.

4. Plug in camera (round single cord plugs in to rear of camera box.)



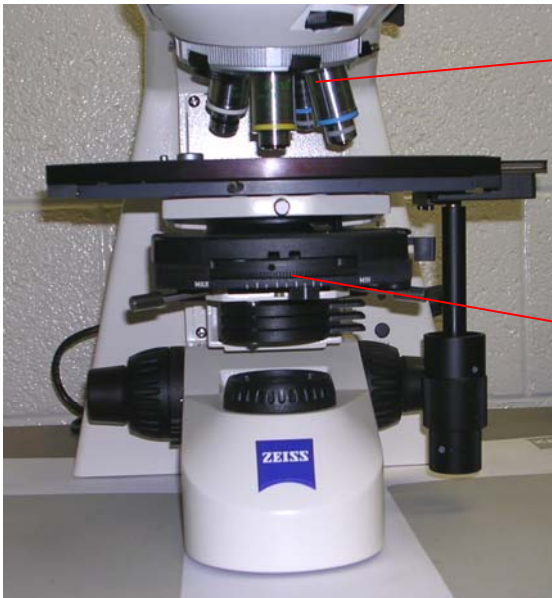
Camera Cord

Plug cord into the back of the camera when setting up. Unplug camera at end of use. Then put blue cover over microscope.

5. On computer, press “Ctrl-Alt-Del,” then put in user id “microscope” and password “czeiss”

6. If using fluorescence turn on the AttoArc 2 fluorescence lamp. Turn on the power and then fire up the lamp by pressing the ignite (red) button until the lamp fires.

6. Set microscope to proper settings.



Objective lens

10X, 40X phase, 40X, 100X phase. When not using phase use the second 40X objective.

There are two things you can adjust here, one goes from min to max, adjusting the brightness of the light. It is best to keep it right in the middle. The second knob can has various numbers, letters, and roman numerals. I/H is the best for regular brightfield. I, II, III are the phase filters. D is darkfield.

This will adjust the amount of light you see, 1 is the least amount of light, and 10 is the greatest. There is a strip on the front side of the microscope that lights up yellow to show the number that the light level is on.

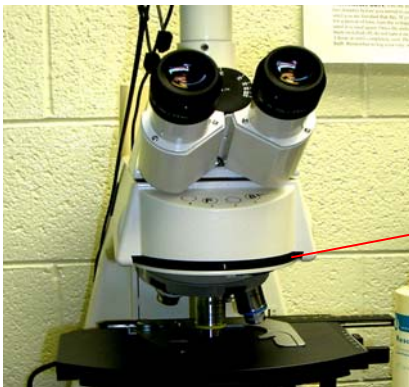


This knob is the coarse focus. Use only with 10X.

This is the fine focus. It can be used on any power.

Movement of the slide

There are two ways to move the slide, forward and backward: and right to left. The smaller knob on the bottom moves the slide plate right to left, and the larger knob moves the slide forward and backward.



Fluorescence Filters

This dial controls the fluorescence filters. Turn to the desired number of filter. You should always use filter 1 when using brightfield microscopy.

7. Open Axiovision Rel. 4.5 on the desktop to take pictures.
9. When done, close the Axiovision program by going to "Exit" under the File menu (NOT by using the X in the upper right corner)
10. Turn off microscope
12. If using fluorescence turn off the attoarc lamp if no else will be using it for an hour or more (once turned off the attoarc cannot be turned back on for 1 hour.)
11. Unplug camera.
12. Replace blue microscope cover. Do not cover the back fan area which is hot.
13. Shut down computer and turn off monitor.
14. If nobody is there, be sure to turn off lights and shut doors.

