

Instructions for Controlling the Transmitted Light
Zeiss AxioObserver D.1
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The AxioObserver D.1 is a “smart” microscope. It has a Light Manager menu and can operate in “manual”, “classic”, and “smart” modes. The default configuration in our Facility is “smart” mode.

There is no “shutter” for the TL light, but the light can be turned ON/OFF as well as alternating between two different voltages using the TL shutter button.

When you power “ON” the microscope, it will return to the settings from the previous use. The TL light ON/OFF and voltage will depend upon how it was last used.

Operational Rules:

1. Turning the Light “ON”:

- if the light is “OFF” or when you first adjust the light: must press and hold >1sec. The light will come ON and go to 3200K.
- for 3200K: press and hold the TL button > 1 sec.; light will come on at 3200K.
- for lower light settings: press > 1 sec.; light will go to previously set value.
- Set your own lower intensity value: You can set your own value by adjusting the transmitted light intensity dial on the front of the microscope. Turn to the desired value, wait a moment, you will hear a beep and this will be the new preset value.
- from OFF to a lower voltage setting: once a new lower value has been set, you can alternate between OFF and the low value by using a quick press (<1sec).
- to go from lower to higher setting: press and hold TL button > 1 sec. to alternate between the two settings

2. Turning the Light “OFF”:

- press and hold < 1 sec to turn the light off

3. Changing Objectives:

- the objective turret is encoded, which means that the microscope knows what objective is in position
- When you are imaging at a lower magnification, select the optimal light intensity for your sample. When you change to a higher objective, the TL voltage will automatically adjust to compensate for the reduced brightness that goes along with higher magnification and turn up the voltage so that the perceived brightness stays the same. Voltage will decrease when you go from higher to lower magnification objectives as well.