Storage:

* Proper storage of the microscope will prevent or reduce problems!
* Optics and mechanisms of the microscope must be protected from:
  + Dust and dirt
  + Fungus
* Store the microscope
  + Under a protective cover
  + In a low humidity environment

Cleaning Solutions and Solvents:

* Soap solution for cleaning of body and stage
* Ethyl ether-alcohol, alcohol, or lens cleaner solution for cleaning of lenses
* Refer to manufacturer’s guide for appropriate organic solvent

Cleaning Materials:

* Lint-free cotton gauze pads
* Lint-free cotton swabs
* Lens paper
* Alternatives include:
  + Fine quality tissue paper
  + Muslin cloth
  + Silk

Cleaning Process:

Step 1: Cleaning the Eyepieces

* Blow to remove dust before wiping lens
* Clean the eyepieces with a cotton swab moistened with lens cleaning solution
* Clean in a circular motion inside out

Step 2: Cleaning the Eyepiece

* Wipe the eyepieces dry with lens paper
* Repeat cleaning and drying if required

Step 3: Cleaning the Objectives

* Objectives are cleaned while attached to microscope
  + Moisten the lens paper with the cleaning solution
  + Wipe gently the objective in circular motion from inside out
  + Wipe with dry tissue or lens cleaning paper
* Objectives should never be removed from the nosepiece.

Step 4: Cleaning the Microscope Stage

* Wipe the microscope stage using the cleaning solution on a soft cloth
* Thoroughly dry the stage
* Repeat above steps, if required

Step 5: Cleaning the Microscope Body

* Unplug the microscope from power source
* Moisten the cotton pad with a mild cleaning agent
* Wipe the microscope body to remove dust, dirt, and oil
* Repeat steps 1–3, if required

Step 6: Cleaning the Condenser and Auxiliary Lens

* Unplug the microscope from power source
* Clean the condenser lens and auxiliary lens using lint-free cotton swabs moistened with lens cleaning solution
* Wipe with dry swabs

Replacing the Microscope Bulb:

* Unplug the microscope from power source
* Find location of bulb
* Follow manufacturer’s instructions to remove the bulb
* Use tissue paper or an appropriate device to remove the bulb from the microscope
* Check the model number on the bulb to ensure the use of correct replacement bulb.
* Replace the bulb by holding it with lens paper or an appropriate device.

Fixing a Surging or Flickering Light:

* Loose plug or connection
* Clean bulb contacts (Unplug from power source)
* Assure halogen pins are in full contact
* Bulb needs replacement
* Check to see if cord is damaged - Replace, if any wear and tear is visible
* If voltage supply is erratic, use a voltage stabilizer

Daily Maintenance:

* Optimum illumination
* Cleanliness
* Light bulb
* Immersion oil
* Check cord
* Keep it covered