



## CLEANING AND CARE OF THE MICROSCOPE

### How To Clean Your Microscope

#### General

Keeping all optical components clean is important for maintaining good optical performance. When not in use the [microscope](#) should always be **covered** with a plastic dust cover.

#### Optical Surfaces

If any optical surface becomes badly coated with dust it should be cleaned by blowing it off with a **syringe** or brushing with a **camel hair brush** before attempting to wipe the surface clean.

No part of the microscope is quite so vulnerable to dirt, dust and oil as the front lens of the objective. Whenever lack of contrast, cloudiness or poor definition is encountered, carefully check the condition of the front lens with a magnifier ensuring the slide placed on the stage right-side-up. Slide, Sample, Coverslip. The coverslip is now closest to the objective.

- Optical surfaces — such as objectives and eyepieces should be cleaned with a lint-free lens tissue or a plain cotton swab moistened with a cleaning agent such as our HistoClear
- The lens tissue or cotton swab should be moistened with solvent, and squeezed almost dry (not wet enough for the solvent to seep around the lens).
- Wipe the lens lightly without applying undue force or scrubbing action. Make sure that the cotton swab contacts the concave lens surface. Check the objective with a magnifier after cleaning.
- Should you need to remove the viewing head, be careful not to accidentally touch the outer lens surface on the underside of the head. Finger prints on this surface will reduce image clarity. This lens can be cleaned in the same manner as objectives and eyepieces.
- To clean the body and stage of the microscope, a lint-free cloth or tissue used with a small amount of water and lab detergent is ideal. If you do not have access to lab detergent then a tiny drop of window cleaning spray will do the trick. Remember not to use alcohol, acetone or other similar solvents as they may damage painted surfaces.

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## Use of Immersion Oil

- When using Immersion oil it is important not to flood the slide with oil as this can then transfer accidentally to other objectives. Using either a dropper bottle or a fine tip transfer pipette place one drop of Immersion Oil on to the slide.
- Make sure that the 40X objective does not make contact with the Immersion oil as this can damage the lens if left for a long period.
- Do not leave the 100X objective sitting in the oil on the slide for a long period of time because the heat from the lamp will cause the oil to 'bake' onto the lens, which will be difficult to remove. Wipe the objective immediately after use with lens tissue moistened with cleaning agent. If using the microscope regularly, please clean the objectives with HistoClear as above.

## Order Information/Cleaning Kit

Cat No:	Description
1676	Nikon Dust Cover/Universal Size
0645	Lens Cleaning Fluid (HistoClear) x 30ml
0220-050	Plain Swabs in Tube x 50
0920	Whatman lens Tissues x 25
0921	Premiere Lens Tissues x 50
0641	Immersion Oil x 15ml R.I. 1.51
0643-100	Immersion Oil x 100ml R.I. 1.51
0671	Transfer Pipettes 1.0ml FINE TIP x 400
1451	Dropper Bottle 15ml - Screw Top x 1

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