

# Nikon Eclipse E200 Microscope

A microscope is an instrument used to visualize objects too small to see with the naked eye. Optical microscopes, or light microscopes, use light to view the sample while electron microscopes get their light source from accelerated electrons. A magnifying glass can be considered a simple microscope whereas a compound microscope utilizes multiple lenses to magnify a sample. There are many components standard to a compound optical microscope. The features specific to the Nikon Eclipse E200 make it an ideal microscope for educational purposes, clinical laboratory use, and basic research.

## Standard microscope components



Fig 1: Microscope Components

1. Eyepiece (ocular lens)
2. Objective lenses and revolver
3. Focus knobs
4. Stage
5. Light source
6. Condenser and diaphragm

### Eyepiece (ocular lens)

The eyepiece, or ocular lens, is a system of one or two lenses that bring the object into focus for the eye. These cylindrical tubes can be exchanged with eyepieces of different magnification. Typically, a 10x magnification is used in the eyepiece but other options include 2x and 50x.

### Objective lenses and revolver

The objective revolver, or turret, holds the various objective each objective. Generally three or four objective lenses are screwed into the revolver. The objective is a cylinder containing one or more glass lenses that collect light from the sample. Microscope objectives typically range in magnification from 4x to 100x. The 100x objective is also called an oil immersion objective because it requires oil to reduce the refraction of light and direct it from the sample being viewed to the objective lens. Combined with the magnification provided in the eyepiece, an objective microscope typically has up to a 1000x magnification (assuming it has a 10x eyepiece and a 100x optical lens).



Fig 2: Objective Lenses

# Nikon Microscope User Manual

**Michael Brown**



## **Nikon Microscope User Manual:**

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