



# **Nikon**<sup>®</sup> **ECLIPSE** **E800/E800M**

*A high performance  
research microscope*

- *Special stand for macro observation w/ exclusive Plan Apochromat 0.5x and 1x objectives for actual size documentation*
- *Brilliant optical quality with CFI60 optical design*
- *Computer aided engineering*
- *Advanced ergonomic design*



***Advanced Research Microscope***

***Capable of Handling any Technique  
from Basic through Advanced Microscopy***



# ECLIPSE E800/E800M

## Advanced Research Microscope

### User Comfort and Ergonomic Design Built Right in

- Advanced Ergonomic Design allows operation from a natural posture without strain. Focus control, stage handle field diaphragm and power controls are placed within easy reach.
- Low stage design for easy manipulation of revolving nosepiece and specimen handling.
- Three-way tilting trinocular tube adjusts from 10-30 degrees for the most comfortable viewing angle.
- Ultra stable, modular design - accepts a complete line of dedicated modules integrated into the structure of the stand without compromising optical performance and stability.
- Wide base and arm ensures stable image acquisitions at high magnifications. Can withstand loads five times heavier than conventional models.

### Unmatched Optical Quality

- CFI60 Optics - longest working distance with high numerical aperture objectives.
- Widest magnification range and the world's first 0.5X objective (for actual size documentation).
- Longer parallel optical path and unequalled fluorescence observation capability.
- Improved lamphouse illumination (12V/100W external transformer).
- Integrated 5 place linear fluorescence filter changer. Easy access to controls on front of microscope.

### Other Features of E800

- Ultra-wide viewing is standard with 25mm field number eyepieces.
- Interchangeable, 6-position reversed nosepiece.
- 215° centerable and rotatable stage to facilitate framing during photomicrography.
- Four built-in diasopic filters.
- Available E800M stand for macro observation with exclusive Plan Achromat 0.5X objective for 1:1 specimen documentation.
- Unique drum type triple macro condenser allows the same condenser to be used from 0.5X to 100X.

### SPECIFICATIONS

<b>Magnification</b>	10x - 1500x(5x - 1500x in E800M; Up to 3000x with Mag. module) for observation 2x - 500x(1x - 500x in E800M; Up to 1000x with Mag. Module) for 35mm photomicrography
<b>Optical system</b>	CFI60 System (Infinity optical system)
<b>Parfocal distance:</b>	60mm
<b>Eyepiece tube</b>	V-TF Trinocular tube (Inclination angle 20°) V-TE Tilting Trinocular tube(Tilting type: 10 - 30°) Eyelevel is constant with or without intermediate module Siedentopf type (Interpupillary distance: 51 - 80mm),F.O.V.: 25mm
<b>Eyepiece</b>	10x (F.O.V.: 25mm) Diameter: 32mm Option: 10x (F.O.V. 22mm), 15x (F.O.V. 14mm)
<b>Photo lens</b>	PLI Projection lens: 2x, 2.5x, 4x, 5x
<b>Epi-fluorescence Illuminator (Option)</b>	Built-in type (Inserted into the arm) 5 filter blocks mountable
<b>Nosepiece</b>	Sextuple Nosepiece, Sextuple DIC Nosepiece (Analyzer slot equipped)
<b>Coarse/ fine focusing</b>	Fine: 0.1mm per rotation, Coarse: 12.7mm per rotation Minimum reading: 1 micron on left side knob Coarse motion torque adjustable Refocusing stopper incorporated Stage handle and focusing knob are at equal distance from the operator
<b>Stage</b>	Hard coating paint type Rectangular 146mm x 212.5mm surface stage, 78mm x 54mm cross travel range using low-positioned coaxial X and Y motion control knob on right-hand side Centerable by hex key, 215 degrees rotatable (Ball bearing) with 2 glass plates
<b>Substage</b>	Vertical movement range: 32mm
<b>Illumination</b>	12V 100W LL Halogen Lamp, Precentered and prefocused, (Option: Centerable with reflection mirror type) Autophoto switch (Adjustable 8 - 10V with 0.1V step) equipped
<b>Filters</b>	Filter magazine incorporated and detachable: Accepts 5 filters (Standard: ND2, ND8, ND32, GIF, Diffuser) NCB11 filter separately equipped Optional filters (dia. 52mm wratten filters) mountable on field lens unit

Specifications and equipment are subject to change without any notice or obligation on the part of the manufacturer. January 2000.

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