Polarizing Microscope

ECLIPSE

E200POL
A cost-efficient polarizing microscope incorporating industry-acclaimed CFI60 infinity optics

The E200POL features an extremely compact body that takes up little space on your desk, making this instrument easy to use or transport. And because the E200POL’s design is based on the ECLIPSE E200 biological microscope, it shares the same objectives and uses many of the accessories created for higher-grade ECLIPSE series microscopes, enabling more advanced polarizing microscopy. As you might expect, the E200POL maintains the same operational ease and rigidity as other ECLIPSE series microscopes.

CFI60 infinity optical system
The CFI60 optical system combines Nikon’s renowned CF optical design with infinity optics to overcome the limitations of the traditional infinity design. CFI60 optics provide longer working distances and higher N.A.’s to deliver startlingly clear images at any magnification because chromatic aberrations are corrected over the entire field of view. Nikon CFI optics employ an eco-glass that is manufactured with no harmful substances such as lead and arsenic.

Reversed-type nosepiece
The reversed-type quadruple nosepiece provides more space at the front of the stage to make handling of specimen slides fast and easy. Another advantage of CFI60 objectives is that their increased objective lengths and longer working distances provide more working space around the nosepiece.

Comfortable viewing
The Siedentopf-type eyepiece tube—P-TB2 binocular or P-7T3 trinocular—is inclined at 25° to ensure a natural posture for more comfortable viewing.

Refocusing stage with upper limit set stop
The unique Refocusing Stage makes specimen handling quicker and easier. The stage can be instantly dropped, just by pushing it down, to exchange specimens. It returns to the original position as soon as the hand is removed.

Easy lamp replacement
The microscope comes with a unique top-access 6V-30W halogen illuminator. Simply slide open the lens-unit cover to replace the lamp.

Robust, vibration-resistant construction
A solid one-piece casting from arm to base, plus a substantial 188.5mm width, provides greater rigidity and resistance to vibrations. The E200POL is a synthesis of great Nikon optics and solid, vibration-resistant construction.

For even greater cost performance, the E200POL Basic Set is also available:
- E2-TB Binocular Tube or E2-TF Trinocular Tube can be selected. Their eyepoint height can be raised 34mm by simply swinging the front part of the tubes up 180°.
- Eyepiece lens: CFI E 10x (F.O.V. 20mm)
- Excellent cost performance
**Dimensional Diagram**

**Standard Set**

![Image of a microscope diagram]

**Specifications**

<table>
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<tr>
<th>Feature</th>
<th>Details</th>
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<tr>
<td><strong>Optical system</strong></td>
<td>CFI60 infinity optical system</td>
</tr>
<tr>
<td><strong>Eyepiece</strong></td>
<td>Standard set: 10x (F.O.V. 22mm), CM type with 90° crosshair and micrometer scale</td>
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<tr>
<td><strong>Eyepiece tube</strong></td>
<td>Standard set: Binocular E2-TB, Trinocular E2-TF</td>
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<tr>
<td><strong>Intermediate tube</strong></td>
<td>Built-in focusable Bertrand lens removable from optical path. Built-in analyzer removable from optical path. Conoscopic/Orthoscopic observations switchable. With plate/compensator slot</td>
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<tr>
<td><strong>Analyzer</strong></td>
<td>360° rotary dial. Minimum reading angle 0.1°</td>
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<tr>
<td><strong>Nosepiece</strong></td>
<td>Quadruple nosepiece fixed to main body</td>
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**Coarse/fine focusing**

- Fine: 0.2mm per rotation
- Coarse: 37.7mm per rotation
- Minimum reading: 2 microns on left-side fine control knob
- Coarse motion torque adjustable
- Refocusing system incorporated in stage

**Stage**

- 160mm circular graduated stage; 1° increments and vernier reading 0.1°

**Illumination**

- Built-in 6V-30W halogen lamp precentered and prefocused. Continuously variable intensity control. Multi-voltage compliant (100V-240V)

**Objective**

- CFI P Achromat 4x, 10x, 20x, 40x, 100x oil

**Condenser**

- Dedicated strain-free swing-out type

**Polarizer**

- Attachable to bottom of condenser

**Compensator**

- Standard 1/4 λ and tint plate. Quartz wedge or Senarmont compensator can be inserted into intermediate tube slot

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**WARNING**

TO ENSURE CORRECT USAGE, READ THE CORRESPONDING MANUALS CAREFULLY BEFORE USING YOUR EQUIPMENT.

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