

## iScope® Polarising Microscope

Item# EIS-1053-PLPOLRI

### Eyepieces

- EIS-1053-PLPOLRI is supplied with a pair of EWF 10x/20 mm (Ø 30 mm tube) eyepieces, one eyepiece with crosshairs and one eyepiece with crosshairs and micrometer reticle.

### Head

- Trinocular Siedentopf type with 30° inclined tubes. Interpupillary distance 48 to 76mm. Two +/- 5 diopter adjustment.
- Polarizing attachment with 360° rotatable polarizer, analyzer, quartz wedge, Lambda and 1/4 λ (lambda) plates, Bertrand lens.

### Nosepiece

- Reversed quadruple (4) nosepiece on ball bearings.

### Objectives

- Plan IOS infinite, POL strain free and center adjustment. *No cover glass correction. For models with reflected illumination*
- PLPOLI 5x/0.12. WD 15.5mm
- PLPOLI 10x/0.25. WD 10mm
- PLPOLI 20x/0.40. WD 5.8mm
- PLPOLI 50x/0.75. WD 0.92mm
- **Total magnification: 500x**

*All optics are anti-fungus treated and anti-reflection coated for maximum light throughput.*

### Stage

- Ø 160mm round stage for polarization models, 360° rotatable with Vernier scale and two object clamps. The rotating movement can be fixed by a lock screw.

### Condenser

- Equipped with height adjustable Abbe N.A. 1.25 condenser with iris diaphragm and swing-out 360° rotatable polarizer.

### Focusing

- Coaxial coarse and fine adjustments, 200 graduations, 1 micron per graduation, 200 microns per rotation, total travel range is approximately 20mm. Supplied with an adjustable rack stop to prevent damage to sample and objectives. The coarse adjustment is equipped with friction control.

### Transmitted Illumination

- Intensity adjustable 3W Köhler NeoLED™ illumination with internal 100-240V power supply. The larger aperture of NeoLED™ allows the optical system of the iScope® to produce images at higher resolutions, very close to the theoretical diffraction limit of the optics. Other benefits of NeoLED™ are low energy consumption, no heating and long operating lifetime. The Köhler settings provide homogeneous illumination and high contrast.



### Reflected Illumination

- Equipped with a 50W/12VDC halogen epi-illumination and external 100-240VAC power supply. Supplied with 360° rotatable polarization filter, analyzer, Bertrand lens (build-in), 1 λ first red plate, 1/4 λ retardation plate, a quartz wedge, sliders with green/blue and white/neutral density filter. 45mm green and blue filters for lamp house.

### iCare Sensor

- The unique iCare sensor is developed to avoid unnecessary loss of energy. The illumination of the microscope automatically switches off shortly after microscopists step away from their position.

### CSS – Cable Storage System

- iScope® allows users to easily insert the power cable into the back of the instrument, which enables easy storage. The integrated carrying grip at the back of the microscope ensures safe transportation of the microscope.

### APL (Antimicrobial Protection Layer)

- APL is a revolutionary paint treatment applied to the most critical parts of our products. A microscope with APL will help restrict the growth of micro-organisms, including bacteria and mold.

### Package Content

- Supplied with power cord, tension control tool, dust cover, spare fuse and user manual. All packed in polystyrene boxes