Lx POL

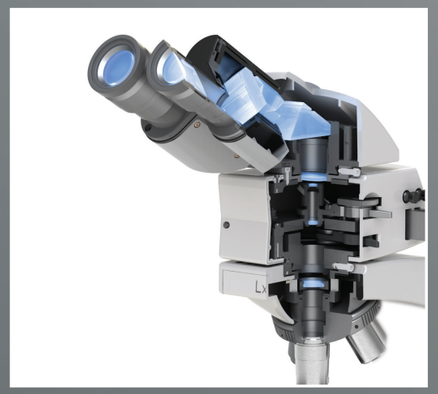
POLARIZING MICROSCOPE



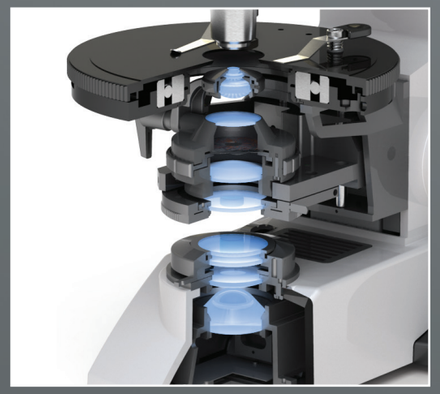
LABOMED®

ideas for vision

REDEFINING EARTH AND MATERIALS SCIENCES



The streamlined Lx POL combines reliability and comfort with user-friendly design and precision engineering. Tight design tolerances and the SF (strain-free) optical system produce true polarization. An optical-grade polarizer with high extinction, individually centerable POL objectives and a precisely matched analyzer deliver outstanding contrast and clarity.



For precise conoscopic imaging, an integrated module with a focusable Bertrand lens sits between the viewing head and the specimen. The Bertrand lens is centered with easily accessible centering screws. Parking slots in the analyzer module store the Allen keys used to center the analyzer and the objectives.



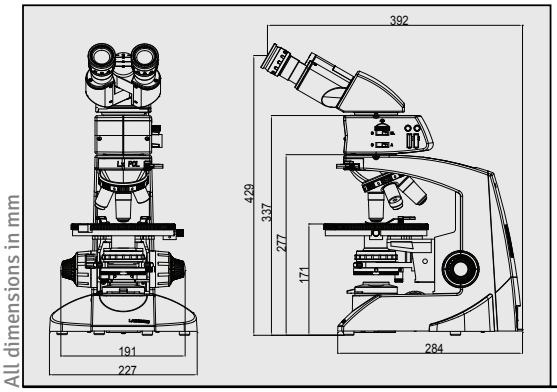
Two compensator plate slots and two centering tool slots are located on the analyzer/Bertrand lens module, so accessories stay in place.



The Lx POL comes with MaxLite™ coated optics, produced by sputtered hard coating, which keeps the optics free of the stress birefringence often caused by thermal-evaporation coatings in conventional microscopes, preserving the pristine polarized light that earth and materials sciences require. All optical modules are treated to minimize stray light, further improving resolution, clarity and overall optical performance.

Lx POL

Stand	Single-mold, sturdy stand of rust-resistant materials; extended base for greater stability
Viewing head	Siedentopf binocular or trinocular head, 30° inclined, fixed; IPD 52–75 mm
Eyepieces	Focusable wide-field 10x/20 mm eyepiece with foldable eyecup; factory-installed crosshair with fixed verticality in one eyepiece
Nosepiece	Reverse-angle quadruple nosepiece (ball-bearing type) with click stops and independently centerable objectives
Analyzer	Adjustable analyzer with centering screws; focusable Bertrand lens; slider slots and spare slider holders; supplied with lambda, 1/4 lambda and quartz wedge plates
Polarizer	Rotating polarizer with orientation marks every 90°
Objectives	SF series infinity-corrected DIN plan achromatic objectives: 4x (WD 30.0 mm), 10x (WD 7.00 mm), 40x (WD 0.65 mm); optional 100x (WD 0.23 mm) spring-loaded oil objective
Circular stage	360° rotatable stage, 160 mm, with 1° graduations and spring clips
Condenser	Centerable strain-free condenser, NA 0.9
Focusing	Feather-touch, wear-free coaxial coarse and fine focusing with automatic tension adjustment for long life and ultra-smooth movement; weighted fine focus
Illumination	LED illumination; Köhler field diaphragm
Electrical	Universal input 100–240 V AC, 50/60 Hz; built-in voltage-sensing power supply



All dimensions in mm

DESCRIPTION	CONFIGURATION	CATALOG NO.
Lx POL Binocular	Binocular head	9151000
Lx POL Trinocular	Trinocular head	9152000

Labo America, Inc.
920 Auburn Court
Fremont, CA 94538

Tel: (510) 445-1257
E-mail: sales@laboamerica.com

www.laboamerica.com

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Distributor

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