

**Fluorescence cum Bright Field  
Research Microscope  
with LED**

**Lx 400  
eFL**

Research Microscopy



**LABOMED**  
ideas for vision

# Lx 400 eFL Fluorescence cum Bright Field Microscope with LED

Specifications

Item	Specifications
- Stand	Ergonomic design for convenient operation. Single frame metal, Die-Cast Body Arm & Base, Heat Treated & epoxy coated, corrosion proof & resistant to organic solvents. All operation knobs are low positioned ensuring comfortable usage during long hours.
- Viewing Bodies	An inclined 30° prismatic Binocular eyepiece-Sidentopf type, rotatable thru 360°, interpupillary distance ranging 48-75mm, maintaining parfocality, having provision for Dioptre adjustment on both eyepieces. Anti-Fungal coated parts & Anti-Reflection coated optics. Moisture proof design.
- Eyepiece	Paired-focusable-wide field Achromatic & Aplanatic eyepieces with foldable eye guards, Dioptre Adjustment with graduated scale on both eyepieces. Magnification 10x F.O.V. numbers 18 or 20mm. High quality optics A.R coated, Anti-fungus treated.
- Nosepiece	REVERSE ANGLE-QUADRUPLE or QUINTUPLE, made of solid brass with DOUBLE BALL BEARINGS and Ribbed Grip for smooth & Precision movement having positive click stop. PARFOCALITY and CENTRATION of all the objectives ensured thru high precision manufacturing on CNC machines & check up on Auto collimeters. Idle port fitted with dust proof plastic caps.
- Objectives	INFINITY CORRECTED Anti - Reflection & Anti-Fungal coated especially designed for Fluorescence Attachment and Bright Field Microscopy. Corrected for specimens without cover slips PLANACHROMATIC, parfocalized & Par centered objectives of DIN standard. Spring loading provided on 20x, 40x & 100x oil. Magnification /NA: 10x/0.25, 20x/0.4, 40x/0.65x & 100x/1.25 for oil immersion. Engraved with our TM/Magnification & N.A.
- Mechanical stage	Built-in-double plate type Mechanical stage. Rectangular size 145x145mm. X & Y travel on precision ball bearing guides, offers range of 78x50mm. Low drive Co-axial movement controls. RACKLESS X axis. Hard coated surface for scratch resistance. Double specimen Holder spring loaded for exact positioning.
- Substage Condenser	Abbe type, N.A. 0.9/1.25, with an Aspheric Lens, Iris Diaphragm & removable Blue day light filters. Rack & Pinion movement on stainless steel guides.
- Focusing System	Co-axial coarse & fine focusing mechanism designed for highly smooth & long life functioning over the full range of coarse travel ranging 15 - 18mm. Sensitivity below 0.002mm on entire range. Safety stop provided to avoid slide damage. One rotation of fine focusing knob is 0.3mm.
- Illumination	Reflected light for Fluorescence illumination with built-in LED blue light source-wavelength 455nm, provided with proper Barrier & Exciter Filters.  Sub-stage illumination with 3W LED life time of 50,000 hours, with proper Heat Sink & well corrected optical system for Bright Field Microscopy. System provides an on-off switch and intensity control of light during operation.  Change-over from Fluorescence to Bright Field illumination is very simple & controlled thru a knob.
- Electrical	Input 180V-250V. 50Hz thru SMPS offer constant voltage output for LED.
- Battery Pack	Power Pack (6V DC) with charger working on 180-250V AC/ 50-60 Hz Includes a rechargeable battery which provides minimum of two hours working of microscope in absence of power supply.
- Accessories	Dust Cover, Cleaning Brush, Blue Filter and Operation & Instruction Manual in English
- Optional accessories	Zernik Phase contrast kit with RP series Phase objectives 10x, 20x, 40x, 100x, Dark field kit, Simple Polarizer/Analyzer, Dual view attachment.



## N. K. Jain Instruments Pvt. Ltd.

15, Industrial Estate,  
Ambala Cantt - 133 006  
Haryana, India

Tel: 0171 2699315/2699015  
Fax: 0171 2699316  
Email: info@labomedindia.com

[labomedindia.com](http://labomedindia.com)



ISO 9001 : 2008  
File No. A9020