Rev: 02



Model:
TL384 M - 630-1939

Typology:
UPRIGHT METALLURGICAL MICROSCOPE

Description:
Metallurgical microscope for routine and educational laboratory applications. Dye-cast frame, with high stability and ergonomy, for transmitted light and incident light observation.

Illumination	Transmitted light: Light source P-LED³; light intensity control using a knob on left side of the frame. LED power 3.6W, comparable to a 50W halogen bulb. Color temperature: 6300K LED average lifetime: approx. 50000h. Incident light: Light source P-LED³; light intensity control using a knob on left side of the frame. LED power: 3.6W. Color temperature: 6300K LED average lifetime: approx. 50.000h. The illuminator is provided with field and aperture diaphragms, polarizer & analyzer filters. Input Voltage: 110/230Vac, 50/60Hz. Max power required: 7W
Observation modes	Brightfield (incident and transmitted light), simple polarization (incident light).
Focusing	Coaxial coarse and fine focusing mechanism (graduated, 0.002mm) with upper stop, to prevent the contact between objective and specimen. Adjustable tension of coarse focusing knob.
Stage	Double layer mechanical sliding stage, dimensions 216x150mm, moving range 78x54mm. Belt-drive in X direction. Glass insert for sample support. Vernier scale on the two axes, accuracy 0,1 mm.
Nosepiece	Quintuple revolving nosepiece, rotation on ball bearings.
Head	Trinocular observation head, inclined 30° and rotatable 360°. Diopter adjustment on both eyepieces. Interpupillary adjustment 48-75 mm. Fixed photo port, 50/50 ratio.
Eyepieces	Widefield eyepieces WF10X/20 with field number 20.
Objectives	PLAN IOS MET (infinity-corrected, no cover slide) objectives, made by: -) IOS 4X, N.A. 0,10, W.D. 17,3 mm -) IOS 10X, N.A. 0,25, W.D. 10 mm -) IOS 20x, N.A. 0,40, W.D. 5,8 mm -) IOS 50X, N.A. 0,75, W.D. 0,32 mm Field Number: 24mm All objectives are treated with an anti-fungus treatment.
Condenser	Abbe condenser, sliding-in, N.A. 1,25 with centering system.
Dimensions	HEIGHT: 480 mm (without attachment) / 580 mm (with attachment) WIDTH: 210 mm DEPTH: 370 mm WEIGHT: 5 kg
Accessories	Instruction manual and dust cover included.