



Premium Inverted Microscope

LM Plan S-APO Super-Apochromatic Objectives | Advanced Illumination

SPECIFICATION	IM-7000 DESCRIPTION
Illumination Techniques	Brightfield, Darkfield, Polarized Light & Differential Interference Contrast (DIC)
Objectives	LM Plan S-APO 5X/0.15/WD 14.4 mm LM Plan S-APO 10X/0.30/WD 12.1 mm LM Plan S-APO 20X/0.45/WD 11.1 mm LM Plan S-APO 50X/0.75/WD 3.65 mm LM Plan S-APO 100X/0.80/WD 3.2 mm
Eyepieces	Plan wide field WF 10X (field no. 22 mm)
Trinocular Head	30° inclination, 360° rotatable, 0/100 and 50/50 light split options, 45–76 mm adjustable diopter
Focusing System	<ul style="list-style-type: none"> Coaxial coarse and fine focusing Fine focus precision: 1 µm (0.001 mm) Fine focus travel per revolution: 0.1 mm Coarse focus travel per revolution: 34 mm Total focusing range: 9 mm
Nosepiece	Quintuple
Mechanical Stage	<ul style="list-style-type: none"> Stage dimensions: 235 mm × 178 mm Travel range: 50 mm × 50 mm Low-position control knobs to reduce fatigue
Illumination	Köhler illumination, 10W LED (lifetime ≥ 60,000 hrs)
Body Construction	Aluminum alloy, die-cast, and metal
Electrical Specification	110V/220V (50/60 Hz) Single Phase
Additional Accessories	Digital Cameras: 3.1 MP (CAM-31) / 9 MP (CAM-91)
Catalog Number	IM-7000

2 year warranty

Limited warranty



IM-7000 Objectives

Advanced Optical Performance

The IM-7000 metallographic microscope combines brightfield, darkfield, polarized light, and DIC illumination with premium LM Plan S-APO objectives to deliver high resolution, contrast, and color accuracy for detailed microstructural analysis.

Precision for Complex Samples

Long working distance DIC objectives and ultra-wide field eyepieces improve imaging of coatings, uneven surfaces, and polished samples, making the IM-7000 ideal for advanced research and failure analysis.

Optimized Digital Imaging

Standard C-mount camera ports, stable LED illumination, and a robust mechanical design support reliable digital documentation and consistent performance in demanding laboratory environments.

