

Polarizing Microscope IMP-2201



Polarizing Microscope IMP-2201 equipped with a high degree of sensitivity and best suited for anisotropic (mineral) specimens such as geology, minerals, metallurgy, university teaching laboratories, and other sectors. Built-in bertrand lens, polarizer and analyzer, 360° rotatable round stage, filter, condenser, etc. The trinocular viewing head with extra wild field eyepieces and has excellent strain-free plan achromatic :5X/0.12/∞/-15.5 mm, 10X/0.25/∞/-10.0 mm, 20X/0.4/∞/0-5.8 mm, 50X/0.75/∞/0-0.32 mm, 100X/0.8/∞/0-2 mm, 40X/0.65/∞/0.17-0.54 mm, 100X/1.25/∞/0.17-0.13 mm objectives, and each eye tube has interpupillary adjustment. This series is capable of providing strong images with a broad field of view, the multipurpose and perfect for basic studies of samples properties. Come with 24V/100W halogen lamp reflected and transmitted lights, allowing samples to be illuminated for a more comprehensive field of view. Accomplished with the help of particular devices known as retardation plates and optical compensators. First order retardation plate is used in optical path differences ranging from a fraction of a wavelength up to several wavelengths. This flexible and multipurpose tool is known by different names, comprising a red plate, red-one plate, lambda (λ) plate, gypsum plate, selenite plate, sensitive violet, or simply a color tint plate and quartz wedge plate is a simple, semi-quantitative optical compensator used to examine optical path differences in a wide range of samples by the quartz wedge. Built in a crystalline block of quartz provide parallel or perpendicular optical axis to the edge of the birefringent crystal.

Technical Specification:

Model	IMP-2201
Type	Advanced Polarizing Microscope
Viewing Head	trinocular head, Inclined at 30°, Interpuillary 48-75mm
Optical System	Infinite
Focusing	Coaxial coarse & fine adjustment, range 32mm, fine division 0.001mm, coarse stroke 37.7mm/rotation, fine stroke 0.1mm/ rotation
Eyepiece	Plan eyepiece EW10X22mm and Plan eyepiece with scale of crosshair
Nosepiece	Backward quintuple
Objective	Strain-Free Plan Achromatic :5X,10X,20X, 50X, 100X, 40X, 100X
Stage	Polarizing Rotatable Stage Diameter 170mm, center adjustable, 360° scale, minimum division 1°, minimum reading vernier scale 6', 45° click stop knob
Light Source	24V/100W Halogen lamp reflected and transmitted
Condenser	Strain free swing out condenser NA0.9/0.25
Filter	Blue filter ND6 and ND25 Neutral density filter
Optional Accessories	video adaptor and filters
Lens	Bertrand lens
Polarising Unit	Transmitted: 360° Rotatable, 0° position adjustable and Reflected: Fixed
Analysing Unit	0°-360° rotatable analyzer with gradation, minimum gradation: 0.1°
Optical Compensator	λ plate (first class red), 1/ 4 λ plate, quartz wedge plate
Catalogue No.	440240-05-04

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Type	Advanced Polarizing Microscope
Viewing Head	trinocular head, Inclined at 30°, Interpuillary 48-75mm
Optical System	Infinite
Focusing	Coaxial coarse & fine adjustment, range 32mm, fine division 0.001mm, coarse stroke 37.7mm per rotation, fine stroke 0.1mm per rotation
Eyepiece	Plan eyepiece EW10X22mm and Plan eyepiece with scale of crosshair, Plan eyepiece with crosshair, Plan eyepiece with gridding
Nosepiece	Backward quintuple
Objective	Strain-Free Plan Achromatic :5X/0.12/?/, 15.5mm,10X/0.25/?/,-10.0mm,20X/0.4/?/0, 5.8mm, 50X/0.75/?/0,0.32mm, 100X/0.8/?/0,2mm, 40X/0.65/?/0.17, 0.54mm, 100X/1.25/?/0.17,0.13mm
Stage	Polarizing Rotatable Stage Diameter 170mm, center adjustable, 360° scale, minimum division 1°, minimum reading vernier scale 6, 45° click stop knob
Light Source	24V/100W Halogen lamp reflected and transmitted
Polarizing Unit	Transmitted: 360° Rotatable, 0° position adjustable and Reflected: Fixed
Analyzing Unit	0°-360° rotatable analyzer with gradation, minimum gradation: 0.1°
Optical Compensator	? plate (first class red), 1/ 4? plate, quartz wedge plate
Lens	Bertrand lens
Condenser	Strain free swing out condenser NA0.9/0.25
Filter	Blue filter ND6 and ND25 Neutral density filter
Certification	
Optional Accessories	video adaptor and filters
Packing Dimension	
Packing Weight	
Electrical Requirement	
Catalogue No.	440240-05-04



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