

POLARIZING MICROSCOPE IMP-2300 SERIES



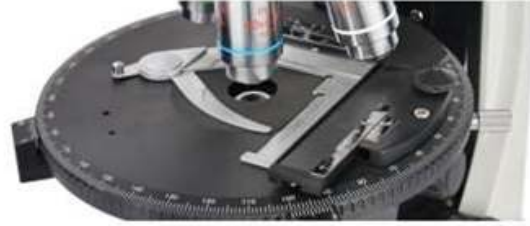
Polarizing Microscope IMP-2300 Series equipped with a high degree of sensitivity and best suited for anisotropic (mineral) specimens such as geology, minerals, metallurgy, university teaching laboratories, and other sectors. Built-in bertrand lens, polarizer and analyzer, 360° rotatable round stage, filter, condenser, etc. The trinocular viewing head with extra wide field eyepieces and has excellent infinite strain free plan achromatic: 4X/0.10-30.0 mm, 10X/0.25-10.2 mm, 40X/0.65(S)-0.7 mm and LWD infinite strain free plan achromatic: 5X/0.13-24 mm, 10X/0.25-10.2 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 12V/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.

Features

- ◆ Accomplished with the help of particular devices known as retardation plates and optical compensators.
- ◆ Infinite strain free plan achromatic and LWD infinite strain free plan achromatic objective, and Backward sextuple nosepiece
- ◆ Gypsum λ Slip, First Class Red, $1/4\lambda$ Slip, (I-IV Class) Quartz Wedge optical compensate system
- ◆ High point wide field SW10 \times /25mm, SWF10 \times /25 with cross line reticle, with fixing pin, SWF10 \times /25 with cross line, with fixing pin eyepieces
- ◆ Coaxial coarse & fine adjustment, range 32mm, fine division 0.001mm, coarse stroke 37.7mm per rotation, fine stroke 0.1mm per rotation
- ◆ Polarizing rotatable stage of length 170mm, center adjustable, 360° scale, minimum division 1°, minimum reading vernier scale 6 to 45° stop knob
- ◆ Strain-free swing out condenser N.A.0.9/0.25
- ◆ 12V/100W Halogen lamp reflected and transmitted light source
- ◆ Different filters Blue filter ND6 and ND25 Neutral density filter
- ◆ Trinocular 30° inclined and a 360° rotatable head with interpupillary distance 48 to 75 mm and
- ◆ Small foot print and light weight
- ◆ Easy operating with ergonomic design
- ◆ Excellent image quality with NIS60 Infinite Plan Semi-Apochromatic optical system
- ◆ Optional accessories video adaptor and filters
- ◆ Built in a crystalline block of quartz provide parallel or perpendicular optical axis to the edge of the birefringent crystal



Multiple Types of Compensators



Center Adjustable Sextuple Nosepiece allow more objectives



The polarizing set includes 0-360° rotatable analyzer, Bertrand lens can switch



Tilting Trinocular Viewing Head



Rotary Observation Module

Technical Specifications

Model	IMP-2301	IMP-2302	IMP-2303
Type	Advanced Polarizing Microscope		
Viewing Head	Trinocular Head, inclined at 30°, 360° Rotatable, Interpupillary Distance: 47-78mm		
Optical System	NIS60 Infinite Plan Semi-Apochromatic		
Focusing	Coaxial Coarse & Fine Adjustment, Fine Stroke 0.1mm, Coarse Stroke 35mm, Fine Division 0.002mm, Sample Space 50mm		
Eyepiece	SW10×/25mm, SWF10×/25 with cross line reticle, with fixing pin, SWF10×/25 with cross line, with fixing pin		
Nosepiece	Backward Sextuple		
Objective	Infinite Strain Free Plan Achromatic:4×/0.10,30.0mm	LWD Infinite Strain Free Plan Achromatic :5×/0.13,24mm	Infinite Strain Free Plan Achromatic:4×/0.10,30.0mm
	10×/0.25, 10.2mm	10×/0.25,10.2mm	10×/0.25, 10.2mm
	40×/0.65(S), 0.7mm,	20×/0.40,12mm	40×/0.65(S), 0.7mm,
	100×/1.25 (S, Oil), 0.2mm(optional: 20×/0.40, 12mm, 60×/0.80 (S),0.3mm)	50×/0.70 (S) ,1.95mm	100×/1.25 (S, Oil), 0.2mm and LWD Infinite Strain Free Plan Achromatic :5×/0.13,24mm
			10×/0.25,10.2mm
			20×/0.40,12mm
			50×/0.70 (S) ,1.95mm(optional: 20×/0.40, 12mm, 60×/0.80 (S),0.3mm)
Stage	Optional : Attached Mechanical Stage with X-Y movement, Moving Range 30mm×30mm		
Light Source	12V/100W Halogen Lamp Koehler Illumination transmitted	12V/100W Halogen Lamp Koehler Illumination transmitted and reflected	
Polarizing Unit			
Analyzing Unit	Rotatable 360°, Minimum Scale Reading: 0.1°		
Optical Compensator	λ Plate(First Class Red), 1/4λ Plate, Quartz Wedge Plate		
Lens	Bertrand Lens		
Condenser	Strain-free swing out condenser N.A.0.9/0.25	-	Strain-free swing out condenser N.A.0.9/0.25
Filter	Blue(optional: Amber, Green, Neutral) filters		
Certification			
Optional Accessories	C-mount and filters		
Catalogue No.	440245-05-04	440245-10-04	440245-15-04

Sample Image

