

POLARIZING MICROSCOPE IMP-1200 SERIES



Polarizing Microscope IMP-1200 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 binocular viewing head with wild field eyepieces and has excellent infinite strain free plan achromatic: 4X/0.10-12.1mm and LWD infinite strain free plan achromatic: 5X/0.13(S)-23 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 5W LED 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, LWD Infinite Strain Free Plan Achromatic: objective, and Backward Quintuple nosepiece
- ◆ Gypsum λ Slip, First Class Red, $1/4\lambda$ Slip, (I -IV Class) Quartz Wedge optical compensate system
- ◆ Wild field WF10X/22mm, WF10X/22 mm with reticule 0.1mm eyepieces
- ◆ Coaxial coarse & fine adjustment, range 25mm, fine stroke 0.2mm, Fine Division 0.002mm
- ◆ 360° rotatable Revolving Round Stage of length 156 mm
- ◆ N.A.0.9/0.13 swing out condenser
- ◆ 5W LED lamp light source
- ◆ Different filters including Blue(optional:Amber,Green,Neutral) filters
- ◆ Binocular 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 infinite optical system
- ◆ Optional accessories C-mount, Filter
- ◆ 6V/30W Halogen Lamp Illumination as an optional accessories
- ◆ Built in a crystalline block of quartz provide parallel or perpendicular optical axis to the edge of the birefringent crystal

Accessories



Professional dedicated polarizing binocular /trinocular head can keep the cross in the right-hand eyepiece always same when the eyepiece tubes turned.



Bertrand lens 360° rotatable analyzer



Centering Nosepiece



Centering Revolving Round Stage.



Polarizer



Swing-out Condenser



Compensator



Polarizing Attached Mechanical Stage

Technical Specifications

Model	IMP-1201	IMP-1202	IMP-1203	IMP-1204	IMP-1205	IMP-1206
Type	Polarizing Microscope					
Viewing Head	Binocular Head, inclined at 30°, 360° Rotatable, Interpupillary Distance: 48-76mm(optional: Binocular Head, inclined at 30°, 360° Rotatable, Interpupillary Distance: 48-76mm)					
Optical System	Infinite					
Focusing	Coaxial Coarse & Fine Adjustment, Range 25mm, Fine Stroke 0.2mm, Fine Division 0.002mm					
Eyepiece	WF10×/22mm,WF10×/22 mm (Reticule 0.1mm)	WF10×/20 mm,WF10×/20 mm (Reticule 0.1mm)		WF10×/22mm,WF10×/22 mm (Reticule 0.1mm)	WF10×/20 mm,WF10×/20 mm (Reticule 0.1mm)	
Nosepiece	Backward Quintuple					
Objective	Infinite Strain Free Plan Achromatic:4×/0.10,12.1mm	LWD Infinite Strain Free Plan Achromatic: 5×/0.13(S),24.23mm, 10×/0.25 (S),8.48mm,20×/0.40 (S),8.35mm,50×/70 (S),.95mm	Infinite Strain Free Plan Achromatic:4×/0.10,12.1mm		LWD Infinite Strain Free Plan Achromatic: 5×/0.13 (S),24.23mm	Infinite Strain Free Plan Achromatic:4×/0.10,12.1mm
	10×/0.25,4.64mm	(optional:100×/0.90 (S, Dry).1.1mm)	10×/0.25,4.64mm		10×/0.25 (S),8.48mm	10×/0.25,4.64mm
	20×/0.40(S),2.41mm		20×/0.40(S),2.41mm		20×/0.40 (S),8.35mm	20×/0.40(S),2.41mm
	40×/0.66(S),65mm		40×/0.66(S),65mm		50×/0.70 (S),.95mm	40×/0.66(S),65mm
	60×/0.80 (S),0.33mm		60×/0.80 (S),0.33mm		(optional:100×/0.90 (S, Dry).1.1mm)	60×/0.80 (S),0.33mm
	(optional:100×/1.25 (S, Oil),0.12mm)		(optional:100×/1.25 (S, Oil),0.12mm)			(optional:100×/1.25 (S, Oil),0.12mm)
Stage	Revolving Round Stage of l length 156mm, Rotatable 360°, Center Adjustable, Division 1°, Vernier Division 6'					
	(optional: Attachable Mechanical Stage Polarizing Attached Mechanical Stage with X-Y movement)					
Light Source	5W LED lamp (Optional:6V/30W Halogen Koehler Illumination) Transmitted and reflected			5W LED lamp (Optional:6V/30W Halogen Koehler Illumination) Transmitted	5W LED lamp (Optional:6V/30W Halogen Koehler Illumination) reflected	
Polarizing Unit	Scale, Rotatable 360 lockable	-	Scale, Rotatable 360 lockable		-	Scale, Rotatable 360 lockable
Analyzing Unit	rotatable 360°, module type lockable					
Optical Compensator	gypsum λ Slip(First Class Red), 1/4λ Slip, Quartz Wedge (I - IV Class)					
Lens	Bertrand Lens					
Filter	Blue(optional:Amber,Green,Neutral)					
Condenser	N.A.0.9/0.13 swing out condenser	-	N.A.0.9/0.13 swing out condenser		-	N.A.0.9/0.13 swing out condenser
Certification						
Optional Accessories	C-mount and filters					
Packing Dimension	565×310×410mm	750×360×450mm	750×360×450 mm	565×310×410mm	750×360×450mm	750×360×450 mm
Packing Weight	GW-12.5 kg NW-10 kg	GW-15 kg NW-11 kg	GW-16 kg NW-12 kg	GW-12.5 kg NW-10 kg	GW-15 kg NW-11 kg	GW-16 kg NW-12 kg
Electrical Requirement						
Catalogue No.	440220-05-04	440220-10-04	440220-15-04	440220-20-04	440220-25-04	440220-30-04

Sample Image

