

POLARIZING MICROSCOPE IMP-1300 SERIES



Polarizing Microscope IMP-1300 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 wide field eyepieces and has excellent infinite strain free plan achromatic: 4X, 10X for reflected/transmitted 20X, 40X, 60X for Transmitted with optional: 100X for Transmitted 20X, 40X, 60X, 100X for reflected 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/50W halogen Epi-Illumination 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 objective, and Backward quadruple nosepiece
- ◆ Gypsum λ Slip, First Class Red, $1/4\lambda$ Slip, (\square - \square Class) Quartz Wedge optical compensate system
- ◆ Designed with wide field WF10 \times / 20mm, WF10 \times / 20mm with cross hair, WF10 \times / 20mm with scale of cross hair eyepieces
- ◆ Coaxial Coarse & Fine Adjustment, Range 24mm, Fine Division 0.002mm
- ◆ 360° Revolving Round Stage of length 160 mm
- ◆ N.A.0.9/0.13 swing out condenser
- ◆ 5W LED lamp light source
- ◆ 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 0.4 \times 2 \times SLR Camera adapter for Nikon or Canon DSLR camera, Specimen presser, Micrometer 0.01mm
- ◆ 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

Technical Specifications

Model	IMP-1301	IMP-1302
Type	Polarizing Microscope	
Viewing Head	Binocular Head, inclined at 30°, 360° Rotatable, Interpupillary Distance: 48-75mm(optional: Trinocular Head, inclined at 30°, 360°)	
Optical System	Infinite	
Focusing	Coaxial Coarse & Fine Adjustment, Range 24mm, Fine Division 0.002mm	
Eyepiece	WF10X 20mm, WF10X20mm with cross hair, WF10X20mm with scale of cross hair	
Nosepiece	Backward quadruple	
Objective	Infinite strain free plan achromatic : 4X, 10X for Reflected/Transmitted 20X, 40X, 60X for Transmitted (optional: 100X for Transmitted 20X, 40X, 60X, 100X for Reflected)	
Stage	Revolving Round Stage of length 160mm, Graduated in 1° increments, Minimum resolution 6' when using vernier scale (optional: Mechanical stage, moving range 30×40mm)	
Light Source	12V/50W halogen lamp Epi-Illumination with iris aperture diaphragm and iris field diaphragm and 12V/ 20W Halogen Lamp	
Polarizing Unit	360° Rotatable with Filter	
Optical Compensator	gypsum λ Slip (first class red), 1/ 4 λ Slip, Quartz wedge	
Lens	Bertrand Lens	
Filter	Yes	
Certification		
Optional Accessories	C- Mount 0.4×2× SLR Camera adapter for Nikon or Canon DSLR camera, Specimen presser, Micrometer 0.01mm	
Packing Dimension		
Packing Weight		
Electrical Requirement		
Catalogue No.	440225-05-04	440225-10-04

Sample Image

