

# POLARIZING MICROSCOPE

## POLARIZING MICROSCOPE IMP-1100 SERIES



Polarizing Microscope IMP-1100 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 and trinocular viewing head with wide field eyepieces and has excellent strain-free infinite plan: 4X, 10X, 20X(S), 40X(S) with optional choice 60X(S) 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 6V/20W halogen lamp 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 ( $\lambda$ ) 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.
- ◆ Strain-free infinite plan objective, and adjustable quadruple nosepiece
- ◆ Gypsum  $\lambda$  Slip, First Class Red,  $1/4\lambda$  Slip, ( I -IV Class) Quartz Wedge optical compensate system
- ◆ Wild field WF 10 $\times$ /18mm, WF 10 $\times$ /18mm with reticule 0.1mm eyepieces
- ◆ Coaxial coarse & fine focusing knobs, travel range of length 26 mm, Scale:2  $\mu$ m
- ◆ 360° rotatable round stage, center adjustable, division 1°, vernier division, lockable, stage of 146 mm
- ◆ Abbe N.A. 1.25 Strain-free condenser
- ◆ 6V/20W Halogen 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 trinocular 30° inclined and a 360° rotatable head with interpupillary distance 48 to 75 mm
- ◆ Small foot print and light weight
- ◆ Easy operating with ergonomic design
- ◆ Excellent image quality with color corrected 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

## Technical Specifications

Model	IMP-1101	IMP-1102
Type	Polarizing Microscope	
Viewing Head	Binocular Head, Inclined 30°, Rotatable 360°, Interpupillary Distance: 48-75mm.	Trinocular Head, Inclined 30°, Rotatable 360°, Interpupillary Distance: 48-75mm. Light Distribution: 20:80
Optical System	Color Corrected Infinite	
Focusing	Coaxial Coarse & Fine Focusing knobs, Travel Range: 26mm, Scale:2um	
Eyepiece	WF 10X18 mm, WF 10X18 mm (Reticule 0.1mm)	
Nosepiece	Adjustable Quadruple	
Objective	Strain-free Infinite Plan: 4X,10X, 20X(S), 40X(S)(optional:60X(S))	
Stage	360° Rotatable Round Stage, Center Adjustable, Division 1°, Vernier division 6', can be locked, stage diameter 146mm	
	(optional: Polarizing Attached Mechanical Stage)	
Light Source	6V/20W Halogen Lamp(optional: 6V/30W Halogen Lamp)	
Polarizing Unit	With Scale Rotatable 360°, Can Be Locked, It can be moved out of the optical path	
Analyzing Unit	0-90°, it can be moved out of the optical path for single polarizing observe	
Optical Compensator	gypsum $\lambda$ Slip, First Class Red, 1/4 $\lambda$ Slip, ( I -IV Class) Quartz Wedge	
Lens	Bertrand Lens	
Condenser	Abbe N.A. 1.25 Strain-free condenser	
Filter	Blue(optional:Amber,Green,Neutral) filters	
Certification		
Optional Accessories	C-mount, Filter	
Packing Dimension	570x2750x450 mm	
Packing Weight	8.6 kg	
Electrical Requirement		
Catalogue No.	440215-05-04	440215-10-04

## Sample Image

