

METALLURGICAL MICROSCOPE

LABORATORY METALLURGICAL MICROSCOPE IMM-1100 SERIES



Laboratory Metallurgical Microscope IMM-1100 Series is a part of the range of laboratory microscope and stands out through its design which is ergonomic, vigorous and constant and stable. This laboratory microscope is used to view samples that will fit on the microscope stage. This range, with its large working distance with infinite plan achromatic: 4X/0.1/∞/-17.3 mm, 10X/0.25/∞/-10.0 mm, 40X/0.60/∞/0-2.9 mm objective. Adjustable 6V/20W halogen lamp Koehler illumination and epilluminator ensures the optimum illumination of the materials to be tested. The illuminating system consists of a high-intensity light source, Abbe N.A. 1.25 condenser lenses with Iris Diaphragm. The binocular and trinocular viewing head with wild field WF10X18 mm eyepieces fitted with 48-75mm interpupillary distance as standard. Blue, Green, Yellow and Ground filters are often used to recover detail and polarizing filters, to produce surface glare and to recover grain boundary definition.

Features

- ◆ Infinite plan achromatic objective, and Quadruple nosepiece
- ◆ Wild field S WF10X18 mm eyepieces
- ◆ Coaxial coarse & fine adjustment fine division of length 0.002 mm, coarse stroke 37.7 mm/rotation, fine stroke 0.2 mm/rotation, range of 20 mm
- ◆ Double layer mechanical stage of length 150×140 mm along with moving range 75×50mm
- ◆ Strain-free swing out condenser N.A.0.9/0.25
- ◆ 6V/20W Halogen lamp reflected and transmitted light source
- ◆ Different filters Blue, Green, Yellow and Ground 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 Infinite optical system
- ◆ Optional accessories Specimen Presser For metallurgical specimen preparation; Polarizer and Analyzer; Photo and Video Adapter

Technical Specifications

Model	IMM-1144	IMM-1188
Type	Laboratory Metallurgical Microscope	
Viewing Head	Binocular head, inclined at 30°, 360° rotatable, interpupillary distance 48-75mm	Trinocular head, inclined at 30°, 360° rotatable, interpupillary distance 48-75mm
Optical System	Infinite	
Focusing	Coaxial Coarse & Fine Adjustment, Fine Division 0.002mm, Coarse Stroke 37.7mm per Rotation, Fine Stroke 0.2mm per Rotation, Range 20mm	
Eyepiece	WF10X18mm (optional: WF8X18mm, WF10X18mm with 0.1mm micrometer and cross hair WF12.5X15mm)	
Nosepiece	Quadruple	
Objective	Infinite Plan Achromatic : 4X/0.1/∞/- 17.3mm, 10X/0.25/∞/- 10.0mm, 40X/0.60/∞/0-2.9mm(optional: 5X/0.12/∞/-15.5mm, 20X/0.40/∞/0 - 5.8mm, 40X/0.65/∞/0-0.52mm, 50X/0.75/∞/0- 0.32mm, 80X/0.90/∞/0- 0.2mm, 100X/0.80/∞/0 - 2mm	
Stage	Double layer mechanical stage 150×140mm, moving range 75×50mm	
Light Source	6V/20W Halogen lamp Kohler Illumination, Epi-illuminator (OPTIONAL: 3W LEDKohler Illumination, Epi-illuminator)	
Polarizing Unit	OPTIONAL	
Analyzing Unit		
Filter	Blue, Green, Yellow and Ground filters	
Certification		
Optional Accessories	Specimen Presser For metallurgical specimen preparation; Polarizer and Analyzer; Photo and Video Adapter	
Catalogue No.	440250-05-04	440250-10-04

Sample Image

