LABORATORY METALLURGICAL MICROSCOPE IMM-1300 SERIES

Laboratory Metallurgical Microscope IMM-1300 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: 5X/0.12/∞/-(BF&DF)-10 mm, 10X/0.25/∞/-(BF&DF)-10 mm objective. Adjustable 12V/50W reflected and transmitted halogen lamp to ensure 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 viewing head with wild field WF10X22 mm, WF10X22 mm eyepieces fitted with 48-75mm interpupilary distance as standard. Green, Gray and ground glass filter are often used to recover detail and polarizing filters, to produce surface glare and to recover grain boundary definition. Features with backward quintuple revolving nosepiece holds multiple lenses, and found between the eyepiece and the stage allowing the user to turn it to achieve various levels of magnification. Though the exact level of magnification may vary with different models, most microscopes provide a low power lens with about 5X magnification and a high power lens with about 100X magnification. Featured with chromatic condenser Abbe N.A. 1.25 with Iris Diaphragm that are concentrates and controls the light that passes through the specimen prior to entering the objective with modern cameras use a type of adjustable diaphragm known as an iris diaphragm which can reduce the amount light that hits a detector by decreasing the aperture and Filter

Features

- Long Wor9+king Distance, Infinite Plan objective
- Coaxial coarse & fine adjustment, fine division 2μm, moving range 30mm
- Offer stages that are designed to move small sample slides or entire microscopes including Mechanical Stage: to facilitates sample observations of length 200x150mm, Travel range: 77x52mm
- Wild field Adjustable WF10X22mm, WF10X22mm eyepieces
- 12V/50W Halogen lamp reflected and transmitted light source
- Different filters Green, Gray and ground glass filter
- Binocular 30° inclined and a 360° rotatable head with interpupilary distance 48 to 75 mm and trinocular 30° inclined and a 360° rotatable head with interpupilary 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 C-mount Adapter, filter

Technical Specifications

Model	IMM-1244	IMM-1288
Type	Laboratory Metallurgical Microscope	
Viewing Head	Binocular Head, Inclined 30°, Rotatable 360°, Interpupilary Distance: 48-76mm, Tube diameter: 30mm(optional: Trinocular Head, Inclined 30°, Rotatable 360°, Interpupilary Distance: 48-76mm, Tube diameter: 30mm)	
Optical System	Infinite	
Focusing	Coaxial Coarse and Fine Focusing, Fine Division 0.002mm, Fine Stroke 0.2mm per Rotation, Moving Range 25mm. Tightness adjustment, upper distance limiter	
Eyepiece	Adjustable WF10X22mm, WF10X22mm	
Nosepiece	Backward Quintuple	
Objective	Long Working Distance, Infinite Plan: 5X/0.10,24.23mm, 10X/0.25,18.48mm, 20X/0.40 (S)8.35mm, 50X/0.7,1.95mm (optional:40X0.65 (S)3.90mm, 80X/0.80 (S)0.85mm , 100X/0.90 (S)1.00mm)	
Stage	Mechanical Stage: 200x150mm, Travel range: 77x52mm. Stage fast lowering unit:	Mechanical Stage: 182x140mm, Travel range: 77x52mm, Two slid holder, Metal plate size: 200x150mm
Light Source	12V/50W Halogen lamp Reflected illumination	12V/50W Halogen lamp Reflected and 6V/20W Halogen lamp transmitted illumination
Polarizing Unit	Yes	
Analyzing Unit		
Condenser	-	Abbe N.A. 1.25 with Iris Diaphragm
Filter	Blue (optional: amber, green, grey) filters	
Certification		
Optional Accessories	C-mount Adapter, filters	
Packing Dimension	750×360×450 mm	
Packing Weight	GW-16 kg NW-12 kg	
Electrical Requirement		
Catalogue No.	440255-05-04	440255-10-04

Sample Image