Research Metallurgical Microscope IMM-3280



Research Metallurgical Microscope IMM-3280 is a part of the range of research microscope and stands out through its design which is ergonomic, vigorous and constant and stable. This research microscope is used to view samples that will fit on the microscope stage. This range, with its large working distance infinite plan achromatic: 5X/0.12/∞/-(BF)-15.5 mm, 10X/ 0.25/∞/-(BF&DF)- 10.0 mm, 20X/ 0.4/∞/0(BF&DF)-4.3 mm, 50X/ 0.75/∞/0(BF)-0.32 mm, 100X/ 0.8/∞/0(BF)-2 mm objective. Adjustable 24V/100W Halogen lamp to ensure the optimum illumination of the materials to be tested. The illuminating system consists of a high-intensity light source, Swing-out condenser NA0.9/ 0.25, with center adjustable aperture iris diaphragm. The trinocular viewing head with extra wild field EW10X22 mm eyepieces fitted with 48-75 mm interpupilary distance as standard. Blue with optional ND25, ND6 filters. Designed with coaxial coarse and fine adjustment focusing. 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 Swing-out condenser NA0.9/ 0.25 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.

Technical Specification:

Model	IMM-3280
Type	Research Metallurgical Microscope
Viewing Head	Trinocular viewing head, inclined at 30°, interpupillary distance 48mm-75mm
Optical System	Infinite
Focusing	Coaxial Coarse and Fine Adjustment, Fine Division 0.001mm, Coarse Stroke 37.7mm per Rotation, Fine Stroke 0.1mm per Rotation, Moving Range 30mm
Eyepiece	EW10X22mm
Nosepiece	Backward quintuple
Objective	Infinite Plan Achromatic:5/ 0.12/∞/ - (BF)-15.5 mm, 10X/ 0.25/∞/ - (BF&DF)-10.0 mm, 20X/ 0.4/∞/ 0 (BF&DF)-4.3 mm, 50X/ 0.75/∞/ 0 (BF)-0.32 mm, 100X/ 0.8/∞/ 0 (BF)- 2 mm, 40X/ 0.65/∞/ 0.17- 0.54 mm, 100X/ 1.250/∞/.17-0.13 mm
Stage	Double layer mechanical stage 186×138mm/ 74×50mm, Specimen preparation plate, Slide glass
Light Source	24V/100W Halogen
Condenser	Swing-out condenser NA0.9/ 0.25
Filter	Blue filter (optional ND25, ND6)
Optional Accessories	Specimen Presser, Photo Attachment, Video Attachment, C-mount 1X, 0.5X
Catalogue No.	440295-10-04

Technical Data:

Model	IMM-3240	IMM-3280
Type	Research Metallurgical Microscope	
Viewing Head	Trinocular viewing head, inclined at 30°, interpupilary distance 48mm-75mm	
Optical System	Infinite	
Focusing	Coaxial Coarse and Fine Adjustment, Fine Division 0.001mm, Coarse Stroke 37.7mm per Rotation, Fine Stroke 0.1mm per Rotation, Moving Range 30mm	
Eyepiece	EW10X22mm	
Nosepiece	Backward quintuple	
Objective	Infinite Plan Achromatic:5/ 0.12/?/ - (BF)-15.5 mm, 10X/ 0.25/?/ - (BF&DF)-10.0 mm, 20X/ 0.4/?/ 0 (BF&DF)-4.3 mm, 50X/ 0.75/?/ 0 (BF)-0.32 mm, 100X/ 0.8/?/ 0 (BF)- 2 mm	Infinite Plan Achromatic:5/ 0.12/?/ - (BF)-15.5 mm, 10X/ 0.25/?/ - (BF&DF)-10.0 mm, 20X/ 0.4/?/ 0 (BF&DF)-4.3 mm, 50X/ 0.75/?/ 0 (BF)-0.32 mm, 100X/ 0.8/?/ 0 (BF)- 2 mm, 40X/ 0.65/?/ 0.17- 0.54 mm, 100X/ 1.25/?/ 0.17-0.13 mm
Stage	Double layer mechanical stage(without hole) 186×138mm/ 74×50mm(optional: Glass specimen preparation plate)	Double layer mechanical stage 186×138mm/ 74×50mm, Specimen preparation plate, Slide glass(optional: Glass specimen preparation plate)
Light Source	-	24V/100W Halogen
Condenser	-	Swing-out condenser NA0.9/ 0.25
Filter	optional ND25, ND6	Blue filter (optional ND25, ND6)
Certification		
Optional Accessories	Specimen Presser, Photo Attachment, Video Attachment, C-mount 1X, 0.5X	
Packing Dimension		
Packing Weight		
Electrical Requirement		
Catalogue No.	440295-05-04	440295-10-04



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