

Inverted Metallurgical Microscope IMM-2344



Inverted Metallurgical Microscope IMM-2344 is a part of the range of inverted microscope and stands out through its design which is ergonomic, vigorous and constant and stable. This inverted microscope is used to view large sample to observe as the objective lenses are located below the stage and allow for placing heavy mechanical parts directly on the stage above the objectives. This range, with its large working distance with LWD plan achromatic metallurgical: 5X/0.13-15.5 mm, LWD plan achromatic metallurgical: 10X/0.2-8.7 mm, LWD plan achromatic metallurgical: 20X/0.40-8.8 mm, LWD plan achromatic metallurgical: 50X/0.60-5.1 mm objective. Adjustable 5W reflected LED lamp, Kohler illumination to ensure the optimum illumination of the materials to be tested. The illuminating system consists of a high-intensity light source. The trinocular viewing head with high point wild field PL10X18mm eyepieces fitted with 54-75 mm interpupillary distance as standard. Blue filter is often used to recover detail and polarizing filters, to produce surface glare and to recover grain boundary definition. Features with backward quadruple 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.

Accessories



Low position high precision coaxial focusing system, left and right side can be adjusted.



Large size mechanical stage provides a more efficient working environment for the user, right hand operate



Reflected Koehler illumination system with iris diaphragm and centerable field diaphragm

Technical Specification:

Model	IMM-2344
Type	Inverted Metallurgical Microscope
Viewing Head	Trinocular viewing head, 45° inclined, Diopter adjustment ± 5 for each side, Interpupillary distance: 54-75mm
Optical System	Finite
Focusing	Low position coaxial coarse and fine adjustment. With tightness adjustment. Coarse stroke/rotation 38mm; fine focus accuracy: 2 μ m.
Eyepiece	High eye point wide field plan eyepiece PL10X18mm
Nosepiece	Backward quadruple
Objective	LWD plan achromatic metallurgical: 5X, LWD plan achromatic metallurgical: 10X, LWD plan achromatic metallurgical: 20X, LWD plan achromatic metallurgical: 50X
Stage	3 layers mechanical stage, 180x155mm, right hand low position control, Moving range: 75x 40mm; Metal stage plate, center hole: 12 mm
Light Source	5W LED Reflected Koehler illumination (optional: 6V/30W halogen Reflected Koehler)
Filter	Blue filter
Optional Accessories	Video Adapter and Polarizing kit
Catalogue No.	440275-05-04

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Type	Inverted Metallurgical Microscope
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Optical System	Finite
Focusing	Low position coaxial coarse and fine adjustment. With tightness adjustment. Coarse stroke per rotation 38mm; fine focus accuracy: 2 μ m.
Eyepiece	High eye point wide field plan eyepiece PL10X18mm (optional: WF15X13mm, WF20X10mm)
Nosepiece	Backward quadruple (optional: Backward quintuple)
Objective	LWD plan achromatic metallurgical: 5X/0.13, 15.5mm, LWD plan achromatic metallurgical: 10X/0.25, 8.7mm, LWD plan achromatic metallurgical: 20X/0.40, 8.8mm, LWD plan achromatic metallurgical: 50X/0.60, 5.1mm (optional: LWD plan achromatic metallurgical: 100X/0.8)
Stage	Three-layers mechanical stage, size 180x155mm, right hand low position control, Moving range: 75x 40mm; Metal stage plate, center hole: 12 mm
Light Source	5W LED Reflected Koehler illumination (optional: 6V/30W halogen Reflected Koehler)
Polarizing Unit	optional
Analyzing Unit	
Filter	Blue filter
Certification	
Optional Accessories	Video Adapter and Polarizing kit
Electrical Requirement	
Catalogue No.	440275-05-04



Iris Analytical Ltd.

66 W Flagler St #900 Miami, Florida 33130 United States