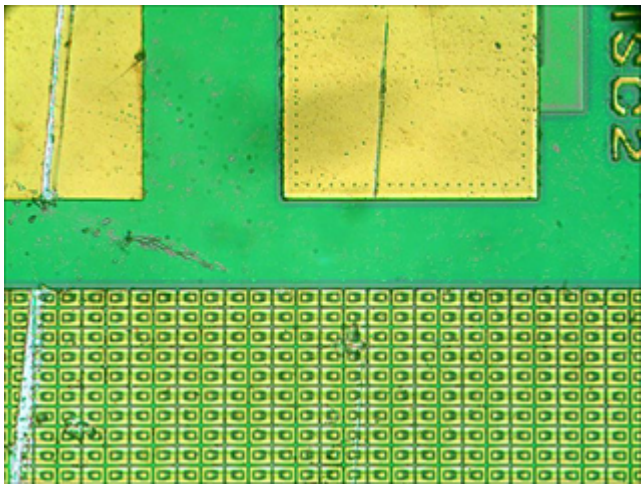
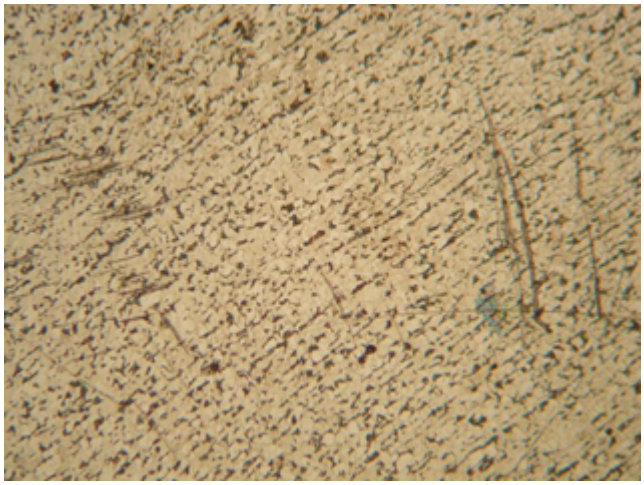
Inverted Metallurgical Microscope IMM-2144

Inverted Metallurgical Microscope IMM-2144 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 infinite plan achromatic: 4X/ 0.1/∞/- 17.3 mm, 10X/0.25/∞/- 10.0 mm, 20X/0.40/∞/0-5.8 mm, 40X/0.65/∞/0-0.52 mm objective. Adjustable 6V/ 30W Halogen lamp, Kohler illumination 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 trinocular viewing head with extra wild field EW10X20 mm eyepieces fitted with 48-75mm interpupilary distance as standard. Blue, Yellow, Green and Frosted filters are often used to recover detail and polarizing filters, to produce surface glare and to recover grain boundary definition. Features with 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.

Sample Images





Accessories

X-Y stage

Technical Specification:

Model	IMM-2144
Type	Inverted Metallurgical Microscope
Viewing Head	Trinocular head inclined at 30°, interpupillary distance 48-75mm
Optical System	Infinite
Focusing	Coaxial coarse & fine adjustment, Vertical objective movement, Coarse stroke 37.7mm/rotation, Fine stroke 0.2mm/rotation, Fine Division 0.002mm. Moving range: 8 mm, down 3 mm
Eyepiece	EW10X20mm
Nosepiece	Quintuple
Objective	Infinite Plan Achromatic :4X/ 0.1/∞/- 17.3mm, 10X/0.25/∞/- 10.0mm, 20X/0.40/∞/0-5.8mm, 40X/0.65/∞/0-0.52mm
Stage	Plain stage with slide clips 160×250mm
Light Source	6V/ 30WHalogen lamp, Kohler illumination
Filter	Blue, Yellow, Green and Frosted filters
Optional Accessories	Specimen Presser For metallurgical specimen preparation, Photo and Video Adapter
Polarising Unit	Yes
Analysing Unit	Yes
Catalogue No.	440265-05-04

Technical Data:

Model	IMM-2144
Type	Inverted Metallurgical Microscope
Viewing Head	Trinocular head inclined at 30°, interpupillary distance 48-75mm
Optical System	Infinite
Focusing	Coaxial coarse & fine adjustment, Vertical objective movement, Coarse stroke 37.7mm per rotation, Fine stroke 0.2mm per rotation, Fine Division 0.002mm. Moving range up to 8mm, down 3mm
Eyepiece	EW10X20mm
Nosepiece	Quintuple
Objective	Infinite Plan Achromatic :4X/ 0.1/?/- 17.3mm, 10X/0.25/?/- 10.0mm, 20X/0.40/?/0-5.8mm, 40X/0.65/?/0-0.52mm
Stage	Plain stage with slide clips 160×250mm(OPTIONAL: Attachable mechanical stage, X-Y coaxial control, moving range 120×78mm, Double layer mechanical stage 226×178mm, Moving range 50×50mm, Auxiliary stage)
Light Source	6V/ 30WHalogen lamp, Kohler illumination
Polarizing Unit	Yes
Analyzing Unit	
Filter	Blue, Yellow, Green and Frosted filters
Certification	
Optional Accessories	Specimen Presser For metallurgical specimen preparation, Photo and Video Adapter
Packing Dimension	
Packing Weight	
Electrical Requirement	
Catalogue No.	440265-05-04

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