

## INVERTED METALLURGICAL MICROSCOPE IMM-2100 SERIES



Inverted Metallurgical Microscope IMM-2100 Series 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/ $\infty$ - 17.3 mm, 10X/0.25/ $\infty$ - 10.0 mm, 20X/0.40/ $\infty$ /0-5.8 mm, 40X/0.65/ $\infty$ /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 interpupillary 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

### Features

- ◆ Long Working Distance, Infinite Plan objective
- ◆ Coaxial coarse & fine adjustment, fine division 2 $\mu$ m, 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
- ◆ Extra wild field Adjustable EW10X20mm eyepieces
- ◆ 6V/30W Halogen lamp reflected and transmitted light source
- ◆ Different filters Blue, Yellow, Green and Frosted filters
- ◆ 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, Photo and Video Adapter

**X-Y stage****Technical Specifications**

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/ 30W Halogen 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

**Sample Image**