



IE200M

IE Series Inverted Metallurgical Microscope Technology Specification

Optical system	Color corrected finity optical system
Viewing head	Gemel trinocular head. 45°inclined, with adjustmnet diopter, inter-pupillary range:54mm to 75mm, Light split rate: 80%/20%
Eyeiece	High eye point plan eyepiece PL10X/18mm
Nosepiece	Quadruple nosepiece; Optional: quintuple nosepiece
Objective	Long working distance plan achromatic metallurgical objective 5X, 10X, 20X, 50X, 100X
Stage:	Mechanical stage, Size:180mmX155mm, Low position control by right hand, moving range: 75mmX40mm, precision:0.1mm
Focus	Low position coaxial focus system,coarse:38mm per rotation, fine precision 0.002mm
Illuminator	Transmission Koehler illumination with alterable aperture diaphragm and centerable field diaphragm , wide-range voltage 90-240V , 6V/30W halogen bulb, with continuous intensity
Polarizer device	360° rotary analyser , the polarizer and analyser both can shift out the optical way
Video & photo accessories	C-mount adapter (1/2, 1/3) and Relay mirror

Characteristics

- Optical system: Adopt special metallurgical objective and PL10X plan eyepiece. High image quality, high resolution and comfortably viewing
- Focus system: Low position coaxial focus system,coarse:38mm per rotation, fine precision 0.002mm, Mechanical stage, Size:180mmX155mm, Moving range: 75mmX40mm
- Illuminator system: Transmission Koehler illuminator with alterable aperture diaphragm and centerable field diaphragm , wide-range voltage 90-240V . 6V/ 3W high brightness and long life LED bulb
- Video & photo accessories: Adopt the corresponding photographic accessories, to acquire and save the imge, Analysis with computer and professional metallographic image analysis software

Objective parameter table

Item	Magnification	N.A.	Working distance (mm)	Coverslip thickness(mm)	Conjugate distance (mm)
Long working distance plan achromatic metallurgical objective	5X	0.13	15.5	0	195
	10X	0.25	8.7	0	195
	20X	0.40	8.8	0	195
	50X	0.60	5.1	0	195
	100X	0.80	2.0	0	195

Eyepiece parameter table

EYEPIECE	PL10X/18	PL10X/18R	WF15X/13	WF15X/13R	WF20X/10	WF20X/10R
Field of view	18mm	18mm	13mm	13mm	10mm	10mm

IE Series Inverted Metallurgical Microscopes Configuration Chart

