



**VMM1000-M**

### 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%
Eyepiece	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

# VERTEX

## 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 image, 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

## Inverted Metallurgical Microscopes Configuration Chart - VMM1000-M

