



# **ZMM-200 ABM METALLURGICAL MICROSCOPE**



## Precision Measuring Metallurgical Microscope

- Precise 3D Measuring 0.1μm For X/Y/Z Axis With Motorized Optical Grating Ruler
- Reversed Quintuple Nosepiece, With DIC Slot, For Bright & Dark Field
- Long Working Distance Infinity Plan Achromatic BD Metallurgical Objective
- Large Size Manual Stage, With Digital Indicator. Z Axis With Auto-control Box For Focusing
- Uses 3D X/Y/Z measuring system with 0.1μm reading, the high precision grating ruler integrated in the rack is imported from Japan.
- The z-axis is controlled by a high-precision electric controller, with 3 speeds available, focusing maneuverability, improving efficiency, reducing cost, and lowering fatigue.

### Specifications

### ZMM-200 ABM

Magnification	Optical Magnification 50x~1000x, Total Magnification 135x~2700x
Eyepiece	High Eyepoint Plan Eyepiece PL10x/22mm, Diopter Adjustable
Head	5°~35° Infinity Gemel Trinocular Head, Erect Image, 360° Rotating, Interpupillary Range 50~76mm; Light Splitting Ratio Switch E0:P100/E100:P0
Objective	<i>Long Working Distance Infinity Plan Achromatic Metallurgical Objective</i> 5x-DIC LMPL5x/0.15 W.D.10.8mm 10x-DIC LMPL10x/0.3 W.D.12.20mm 20x-DIC LMPLanFL20x/0.4 W.D.8.8mm, Semi-APO 50x LMPLFL50x/0.55 W.D.7.9mm 100x LMPLFL100x/0.80 W.D.2.1mm (Optional)
Nosepiece	Reversed Quintuple Nosepiece, With DIC Slot, For Bright Field
Working Stage & Illumination	Manual Stage, Moving Range 200mm(X) x 100mm(Y), With Digital Indicator. Z Axis With Auto-control Box For Focusing; Z Axis Move Range 175mm. Measuring Precision: X/Y (3+L/200)μm, Z Axis Repeatability Precision 2μm (20x Objective), With 5W LED Transmitted Illumination
Table	Table For Machine

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Illumination	Reflect Bright & Dark Field Illumination, With BD Switch Device; With Filter Slots For Filters And Polarizing Kit; 5W LED, Intensity Adjustable
Focusing	Focus Assist Controlled By High-Precision Electric Controller, With 3 Speeds Available, With Double Reticle; Focusing Range >400mm
Polarizing	Polarizer Slide For Reflect Illumination 360° Rotatory Analyzer Slide For Reflect Illumination
Adapter	0.5x C-Mount, Focus Adjustable
Digital Camera	1.2M Digital Camera, Pixel 1280(H) x 960(V); 60fps; Interface Gige; Sensor CMOS (Color)
Software	MSU3D-Pro Measurement software
Computer	DELL 3470, Intel i5 Commercial Office, Desktop Computer (i5-9400 8G 1T WIFI) 21.5" Monitor
Spanner	Spanner M5 Spanner M4
Packing	Foam+ Master Carton

## Optional Accessories

## Specifications

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Objective	<i>Long Working Distance Infinity Plan Achromatic BD Metallurgical Objective</i> 5x-DIC/0.15 W.D.9.0mm 10x-DIC/0.3 W.D.9.0mm 20x-DIC/0.4 W.D.8.5mm, Semi-APO 50x/0.55 W.D.7.5mm 100x/0.80 W.D.2.1mm
DIC	DIC Prism (Reflection)
Nosepiece	Reversed Quintuple Nosepiece, With DIC Slot, For Bright & Dark Field
Adapter	0.65x C-Mount, Focus Adjustable
Micrometer	High Quality Micrometer Slide 0.01mm