Mikrosize®

iMetal-880B/BD

Inverted Metallurgical Microscope

Video

Contact us

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Product Feature&Application

Product Features

- iMetal-880 inverted gold phase microscopy adopts excellent infinite optical system and modular func-tional design concept, which can easily upgrade the system and realize the functions of polarizing obser-vation, dark field observation and so on.
- The compact and stable high rigid main body fully embodies the vibration prevention requirements of the microscope operation.
- The ideal design that meets the ergonomic requirements makes the operation more convenient and comfortable and has a wider space.
- Precision optical instrument, designed to provide the highest level of safety.

Product Application

- This is ideal optical instrument for micro observation in metallographic structure and surface morphology. It is suitable for research in metallography, mineralogy, precision engineering, etc.
- They are widely used in factories or laboratories for raw material inspection; casting quality appraisal or metallographic structure analysis after materials are processed, and research on a number of surface phenomena such as surface cracks and spraying.
- It is an effective method for metallographic analysis of steel, non-ferrous metal materials, castings, and coatings, petrographic analysis of geology; and microscopic research on compounds and ceramics in industrial field.
- It is an essential instrument for studying the organizational structure of materials and materials science, and is also a powerful assistant in scientific research and teaching.

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Product Structure

1.Eyepiece 2. Eyepiece tube 3. Main frame 4. Power switch 5. Coarse/fine focusing mechanism 6. Nosepiece 7. Camera device 8. Reflected illuminator 9. Lamp house 10. Objective 11. Stage

1.X-axis movement 2. Coarse/fine focusing mechanism 3. Illumination adjusting 4. Y-axis movement 5. Observation/photography Switch Pole 6. Analyzer 7. Polarizer 8. Filter Lens

User Friendly

Nosepiece & Objective Lens

Nosepiece & Objective Lens

Mechanical Stage

Nosepiece & Objective Lens

Mechanical Stage

Cirque Substage

User Friendly

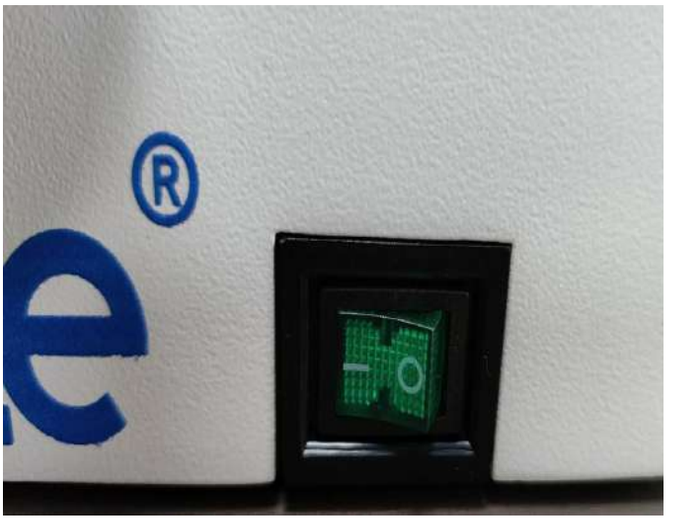
Stage Movement Adjusting

Illumination Adjusting

Polarizer Inserting

Reflected Illuminator

Eyepiece Tube Installation



Power Switch

User Friendly

Photography Device, for camera installation

Coarse/Fine Focusing

Coarse/Fine Focusing

Lamp House Installation

Filter Lens (yellow, green and blue)

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Ordering Information

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Technical Specification

Product Name	Inverted Metallographic Microscope	
Model	iMetal-880B	Equipped bright field objective
	iMetal-880BD	Equipped with dark / bright field objective
Eyepiece	10x wide view plan eyepiece WF10X/Ø22mm(field of view is Φ22mm) Eyepiece interface is Φ30mm	
Inifitive Planachromatic Objectives	iMetal-880B	PL L10X/0.25B Working distance: 20.2mm
		PL L20X/0.40B Working distance: 8.8mm
		PL L50X0.70B Working distance: 3.68mm
		PL L100X0.85B Working distance: 0.4mm
	iMetal-880BD	PL L5X/0.12 BD working distance: 9.70 mm
		PL L10X/0.25 BD working distance: 9.30 mm
		PL L20X/0.40 BD working distance: 7.23mm
		PL L50X/0.70 BD working distance: 2.50 mm
Eyepiece adaptor	Hinged binocular tube, with an observation inclined angle of 45°, and a interpupillarydistance of 53-75mm	
Nosepiece	Quintuple Nosepiece(Inward-facing ball positioning)	
Focusing	Coarse/fine coaxial focus with locking device, micro-lattice value: 2μm	
Microscope Stage	Mechanical movement stage Overall dimension: 242mmX200mm. Movement range: 30mmX30mm	
	Circular rotating mechanical stage: Maximum measurement: Φ130mm. Minimum clear aperture: less than Φ12mm.	
Illumination System	iMetal-880B	6V/30W LED, Adjustable.
	iMetal-880BD	12V/50W LED, Adjustable.
	Built-in field diaphragm, aperture diaphragm and puller type polarizer.	
	Equipped with frosted glass, yellow, green and blue filters.	
Power Supply	AC220V/50Hz;110V/60Hz	

Packing List

Items	Quantity	Items	Quantity
Microscope Mainframe	1 pc	Circular Ring Stage	1 pc
Light Source	1 pc	Filter Lens	1 pc
WF 10X/22 Eyepiece(Anti-Fungus)	2 pcs	Hex Wrench	3 pcs
Binocular Set	1 pc	Polarization Analyzer	1 pc
Objective Lens 10x/0.25	1 pc	Polarizer	1 pc
Objective Lens 20x/0.40	1 pc	Power Cord	1 pc
Objective Lens 50x/0.70	1 pc	Screwdriver	1 pc
Objective Lens 100x/0.85	1 pc	Elastic Clip and Lever	1 set
Instruction Manual	1 copy	Fuse	1 pc
Warranty Card/Product Certificate	Each 1 copy	Anti-dust Cover	1 pc

Light Source

WF 10X/22 Eyepiece

Filter Holder

Binocular Set

Objective Lens

Polarization Analyzer

Circular Ring Stage

Elastic Clip and Lever

Polarizer