

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 functional design concept, which can easily upgrade the system and realize the functions of polarizing observation, 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.

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



Nosepiece & Objective Lens



Nosepiece & Objective Lens



Mechanical Stage



Nosepiece & Objective Lens



Mechanical Stage



Cirque Substage

User Friendly



Stage Movement Adjusting



Illumination Adjusting



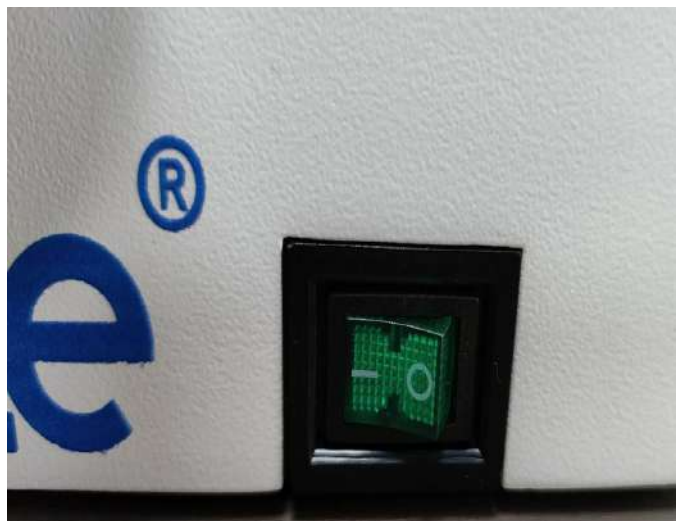
Polarizer Inserting



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)

Ordering Information



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 Ø22mm) Eyepiece interface is Ø30mm	
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: Ø130mm. Minimum clear aperture: less than Ø12mm.	
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



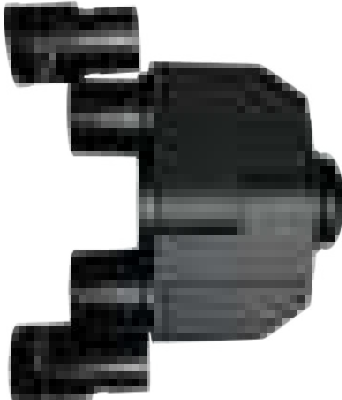
Light Source



WF 10X/22 Eyepiece



Filter Holder



Binocular Set



Objective Lens



Polarization Analyzer



Circular Ring Stage



Elastic Clip and Lever



Polarizer