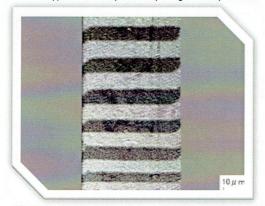




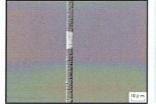
MAGNETIC DOMAIN OBSERVATION MICROSCOPE MODEL: BH-786IP Series



*The appearance of the product may change without prior notice.







Feature

Magnetic Domain Observation Microscope is optical equipment for surface observation of various kinds of magnetic materials by utilizing polarization state change based on Longitudinal Kerr Effect (Effect caused by In-Plane Magnetization) and Polar Kerr Effect (Effect caused by Perpendicular Magnetization).

The product is equipped with Basic Observation Software and Flame Movie Software for obtaining continuous images with selected Magnetic Field change.

Target Sample

Soft Magnetic Material

- Silicide Steel
- Permalloy
- Amorphous Sample

Permanent Magnet

Others

Main Performance

1) Observation Direction

In-plane (One Axis) Direction (Longitudinal) Polar Direction

2) Electromagnet

In-plane Electromagnet $> \pm 10 \text{ kOe}$ Polar Electromagnet $> \pm 10 \text{ kOe}$

3) Spatial Resolution

x20 Objective Lens 2.5 μm x50 Objective Lens 1.0 μm

4) Observation Area

x20 Objective Lens $250 \times 175 \mu m$ x50 Objective Lens $100 \times 70 \mu m$

MAGNETO-OPTIC KERR EFFECT PRODUCT

Observation Part					
Light Source	100 W Mercury Lamp				
	In-Plane - Longitudinal (one axis only)				
Observation Direction	Polar				
			Total Magnification		
Objective Lens	Magnification	Spatial Resolution	*With 17 Inch Monitor	Observation Area	
	x 20 Objective Lens	2.5 µm (Typ.)	x 1000 (Typ.)	250 x 175 μm (Typ.)	
	x 50 Objective Lens	1.0 µm (Typ.)	x 2500 (Typ.)	100 x 70 μm (Typ.)	
Observation CCD Camera	CCD camera	Pixel	Pixel size	Frame rate	
	1/3 Inch Monochrome	Approx. 0.8 Mega Pixel (1024 x 768)	4.65 x 4.65 µm	15 Frame/s (@ 1024x768 Pixel) 30 Frame/s (@ 800x600 Pixel)	
Electromagnet Part					
In-Plane Electromagnet	Generating Magnetic Fiel	d > ±10 kOe	> ±10 kOe		
Sample Holder for	Acceptable Sample Size	5 x 5 x 1t mm ~ 10	$5 \times 5 \times 1$ t mm $\sim 10 \times 10 \times 1$ t mm (Depend on Magnetic Field)		
In-Plane Electromagnet	- Carripio Caugo		Manual X Y Z θ Stage		
Polar Electromagnet		Senerating Magnetic Field > ±10 kOe			
Sample Holder for Polar Electromagnet	Acceptable Sample Size		$5 \times 5 \times 1$ t mm $\sim 10 \times 10 \times 1$ t mm (Depend on Samples)		
	Sample Stage	Manual X Y Z Stage			
Bi-Polar Power Supply	Output Current Output Voltage		± 15 A ± 45 V		
PC, OS, Monitor	Output Voltage	± 43 V			
PC, OS, MOIIICOI	IRM DC/AT Compatible D				
	IBM PC/AT Compatible PC Windows 7				
OS					
Monitor	17 Inch Monitor				
Accessories	Keyboard, Mouse Cables, Others				
Software					
Basic Observation	Magnetic Field Control, Image Processing, Still Image Acquisition & Storage, Image Averaging,				
Software Frame Movie Software	Differential Image Processing, Position Correction, Scale Display, and others. Magnetic Field Control, Image Processing, Continuous Still Image Acquisition with Controlled Magnetic Field, Image Averaging, Differential Image Processing, Position Correction, Movie Making, Scale Display, and others.				
Dimension and Weight					
Main Unit	Dimension	810(W) x 600(D) x 1550	O(H) mm * Protruding part	s are not included	
	Weight	Approx. 300 kg			
Rack (For PC and Others)	Dimension	570(W) x 700(D) x 1250(H) mm * Protruding parts are not included			
	Weight Approx. 100 kg				
Jtility and Operating E					
ower Source	Single-Phase AC100 V, 20 A (Two Lines, 50 / 60 Hz) *Acceptable Voltage Fluctuation Range: Within ± 3 %				
ir Pressure for Vibration solation Table	0.3kgf/cm² (Air Hose Diameter: Inner 4 mm / Outer 6 mm) *Air Compressor is not included to the product.				
emperature Range	20 ℃ ~ 25 ℃				
	30 %~60 % * No condensation is required.				
Humidity Range	30 %~60 % " NO CONGE	risation is required.			

^{*}Actual Shape, Size and Color of the product may change during manufacturing period.

*Contents in this catalog is for a reference. Actual specifications will be decided in consultation.



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