

BMU800 Metallurgical Microscope



BMU800

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Adhering to the philosophy of continuous exploration & self-transcending, New BMU800 metallurgical microscope for research with a number of pioneering design in appearance and functions, is born to provide a perfect detection solution and develop a new pattern of industrial field.

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Optional nosepieces

The included angle between optical axis and rotation axis of multiple nosepiece is decreased to 15°. It is helpful to improve the accuracy of centering and focusing. Seven objectives at most can be assembled at the same time. Continuous and reasonable magnifications from low to high is achievable.

Ergonomic design

■ The intensity can be flexibly adjusted by the dimming device which is located on the right side of frame. The voltage change all-digital displays. Adjusting intensity and coaxial focusing at the same time, improves the work efficiency.

Reflected or transmitted illumination can be switched by the button on the digital dimming display. Using the RE-SET button to keep the light intensity at around 8V (with a camera mark on the dimming display) which is an optimal voltage for photomicrography.
Four built-in filter holders with three standard filters, one empty holder for optional filter. All the filters can be moved out the optical path by pulling out the lever.

■ Low position coaxial focusing system with tension adjustment. The coarse range is 25mm and the fine precision is 0.001mm. The height of a tiny sample, such as solder ball, can be measured.

Stage with adjustment on the right hand

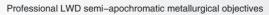
4 inches double-layer mechanical stage, with the lock device to limit Y axis movement. It is widely used in horizontal detection to avoid missing. Glass plate is attachable for transmitted light.

Transmitted and reflected illuminator

12V 100W long lifetime lamp-house with PHILIPS 7724 halogen bulb, provides bright and uniform light. New swing-out type achromatic condenser (N.A.0.9) optimizes the performance of Kohler illumination in lower magnification and corrects the chromatic and spherical aberration.







- is improved.
- natural color of samples.
- controllability of nosepiece.
- applied in all kinds of industrial fields.
- These objectives also can be used in fluorescence observation.
- Professional LWD bright field objective for option.

Model	Magnification	Numerical Aperture	Working Distance	Cover-glass Thickness	Parfocal Distance	Conjugate Distance
Bright/dark field semi–apochromatic Metallurgical objective	5X	0.15	13.50	-		
	10X	0.30	9.00	-		
	20X	0.50	2.50	0	45	00
	50 X	0.80	1.00	0		
	100X	0.90	1.00	0		
Model	Magnification	Numerical Aperture	Working Distance	Cover-glass Thickness	Parfocal Distance	Conjugate Distance
Bright field	5X	0.15	19.50	-		
:	10X	0.30	10.90	-		
semi-apochromatic	10X 20X	0.30 0.50	10.90 3.20	- 0	45	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
semi-apochromatic Metallurgical objective					45	00

High eye-point ultra wide field plan eyepieces

- the work efficiency.
- different users.
- turn down the cup to protect both spectacles and eyepieces.

Model	Magnification	Field Number	Diopter Adjustment	Reticle
High eye-point wide field plan eyepiece	10X	25	-5 ~ +5	-
Model	Magnification	Field Number	Diopter Adjustment	Reticle
High eye-point wide field plan eyepiece	10X	26.5	-8 ~ +5	-













■ BD objectives are designed for all-purpose, available for bright field/dark field/ polarizing/DIC observation. With plenty passed light, the efficiency of sample inspection

Strictly using high transmittance lens and advanced coating technology, restores the

Aluminum cover reduces the weight, prevents the pollution, and also improves the

Semi apochromatic design improves the contrast and definition of images. Long working distance meets the demands of professional detection, is widely

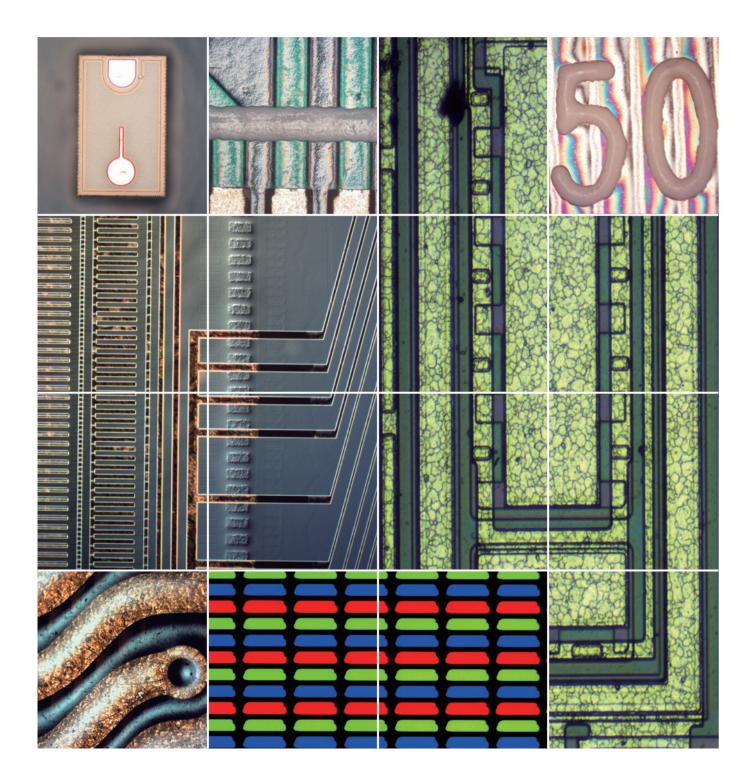
BMU800 eyepiece breaks through 22mm conventional field of view, reaching to 25mm and 26.5mm, much smoother and wider field of view, is helpful to improve

Locating pin on eyepiece inserts into the eyepiece tube, fixing the eyepiece for easy focusing. Bigger adjustable range of diopter from -8 to +5, meets more demands of

Eyepiece cup can be turn up to avoid external stray light. Spectacle-wearers should



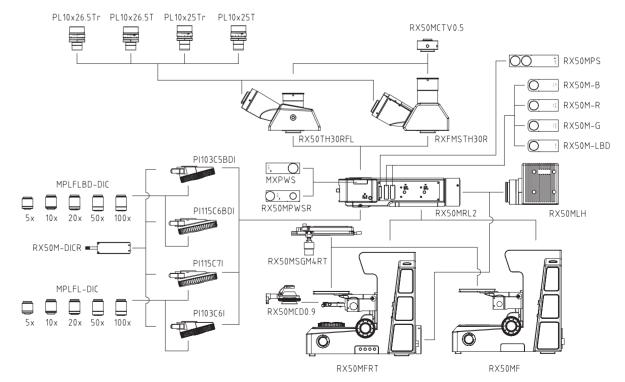
BMU800 is available for multi-observation, such as bright field, dark field (reflected light only), polarizing, DIC (reflected light only).



BMU800 Specifications

Optical system	Infinity color corrected optical system				
Viewing head	Erect image, 30° inclined gemel trinocular head, interpu				
	Inverted image, 30° inclined gemel trinocular head, interpr				
Eyepiece	High eyepoint wide field plan eyepiece PL10X25mm, die				
	High eyepoint wide field plan eyepiece PL10X25mm, with				
	High eyepoint wide field plan eyepiece PL10X26.5mm, c				
	High eyepoint wide field plan eyepiece PL10X26.5mm, v				
Objective	BD semi-apochromatic metallurgical objectives (5X/10X				
	Semi-apochromatic metallurgical objectives (5X/10X/20)				
Nosepiece (with DIC slot)	BD quintuple nosepiece, BD sextuple nosepiece				
	Sextuple nosepiece, septuple nosepiece				
Frame	Reflected/Transmitted body, low-position coaxial coarse 0.001mm. With coarse adjustment stop and tightness ad Built-in 100-240V wide voltage transformer, double-wa reflection and transmission; built-in transmitted filters L				
	Reflected body, coaxial coarse and fine adjustment, co coarse adjustment stop and tightness adjustment. Built-in 100-240V wide voltage transformer; intensity				
Stage	4 inch three layers mechanical stage with glass plate, movi				
Condenser	Swing-out type achromatic condenser (N.A.0.9)				
Reflected illuminator	BD reflected illuminator with iris field diaphragm and ape With switch for bright and dark field				
lamp house	12V/100W halogen lamp house, center pre-set				
Other accessories	Camera adapter: 0.5X focusing C-mount				
	Fixed polarizer, fixed analyzer, 360° $$ rotatable analyzer $$				
	DIC attachment				
	Interference filters for reflected light:				
	High precision micrometer, scale value 0.01mm				

BMU800 Series System Diagram



pupillary distance: 50mm~76mm; splitting ratio R:T=100:0 or 0:100

pupillary distance: 50mm~76mm; splitting ratio R:T=100:0 or 20:80 or 0:100 iopter adjustable

vith reticle, diopter adjustable

diopter adjustable

with reticle, diopter adjustable

X/20X/50X/100X)

0X/50X/100X)

se and fine adjustment, coarse adjustment distance: 25mm; fine precision: adjustment.

vay power output; intensity adjustable by digital set and reset; switch for LBD/ND6/ND25).

coarse adjustment distance: 25mm; fine precision: 0.001mm. With

ty adjustable with digital set and reset. ving range: 102mm(Y)*105mm(X)

perture diaphragm, central adjustable. With filter slot and polarizing slot.

BMU800 Dimension: mm

