

# KASON101-BW

Trinocular Inverted Metallurgical Microscope



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## • OBSERVATION SYSTEM

Hinged observation tube: Binocular observation tube, single vision is adjustable, the lens tube is tilted at 30°, comfortable and beautiful. Trinocular observation tube, can be connected to camera device. Eyepiece: WF10X large field plan eyepiece, with a field of view of  $\phi 18\text{mm}$ , providing a wide and flat observation space.



## • MECHANICAL STAGE

The mechanical moving stage has a built-in rotatable circular stage plate, which can be rotated during polarized observation to meet the requirements of polarized microscopy.



## • LIGHTING SYSTEM

Using the Kohler lighting method, the aperture diaphragm and field diaphragm can be adjusted with dials to adjust the aperture size smoothly and comfortably. The optional polarizer can adjust the polarization angle by 90° to observe microscopic images under different polarization states.



## • APPLICATION

Trinocular Inverted Metallurgical Microscope is mainly used for metal identification and analysis of the internal structure of organizations.

It is the important device which can be used to study the metallographic of metal, and it is also the key instrument to verify the product quality in industrial application.

This microscope can be equipped with photographic device which can take metallographic picture to carry out artificial contrast analysis, image editing, output, storage, management and other functions.

## • MAIN SPECIFICATIONS

Item	Specification	101-BW
Optical system	Finite distance chromatic aberration correction optical system	Included
observation tube	Hinged binocular tube, 30° tilt; trinocular tube, interpupillary distance and diopter adjustable.	Included
Eyepiece	Large field of view WF10X ( $\phi 18\text{mm}$ )	Included
Long distance flat field achromatic objective lens	PL L 10X/0.25 WD8.90mm	Included
	PL L 20X/0.40 WD3.75mm	Included
	PL L 40X/0.65 WD2.69mm	Included
	SP 100X/0.90 WD0.44mm (oil)	Included
Converter	Ball internal positioning four-hole adapter	Included
Focusing mechanism	Coarse and fine coaxial focusing, fine adjustment grid value: 0.002mm; stroke (from the focus point on the stage surface): 30mm. Adjustable coarse movement, with locking and limiting devices	Included
Stage	Double-layer mechanical mobile (size: 180mmX150mm, moving range: 15mmX15mm)	Included
Lighting system	6V 20W halogen lamp, adjustable brightness	Included
Color filter	Yellow color filter, green color filter, blue color filter	Included
Metallographic analysis system	FMIA2023 genuine metallographic analysis software, 5 million pixel Sony chip camera device, 0.65X adapter mirror interface, micrometer (with specifications: 100x0.01mm, 100x0.01cm, calibration points $d = 0.15\text{mm}$ , $d = 0.07\text{mm}$ ).	Included
<b>Optional configuration</b>		
Eyepiece	Large field of view WF16X ( $\phi 11\text{mm}$ )	
	Large field of view WF10X ( $\phi 18\text{mm}$ ) with cross dividing ruler	
Long distance flat field achromatic objective lens	PL L 50X/0.70 WD2.02mm	
	PL L 60X/0.75 WD1.34mm	
	PL L 80X/0.80 WD0.96mm	
	PL L 100X/0.85 WD0.4mm	
	Ball internal positioning five-hole adapter	
Computer	Analyzer group, polarizer group	
Polarizing accessories	12-megapixel Sony chip camera device	
camera device	HP Business Jet	