

# KASON 101-A

Binocular Inverted Metallurgical Microscope



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## APPLICATION

This device is a kind of inverted type optical microscope. Due to the surface of specimen to be observed coinciding with the table surface, it has no limit to the height of specimen. It features convenient operation, compact structure and elegant appearance. The equipment base has large supporting area and the arm bend is strong which makes the gravity of equipment lower, thus it can be placed stably and reliably. There is a 45° tilt angle between the eyepiece and supporting surface, and this make it comfortable to observe.

This device is used to identify and analyze the organizational structure of all kinds of metals and alloy materials. It can be widely used in factories and laboratories to verify the quality of casting, to inspect the raw material and analyze the metallographic organization of material after treatment, and to do some research work for surface spraying etc. This equipment can be equipped with photographic device to proceed photomicrography.

## MAIN SPECIFICATIONS

Item	Specification
Optical system	Infinity Optical System
observation tube	Binocular tube, 45° inclined.
Eyepiece	Flat field eyepiece WF10X(Φ18mm)
	Flat field eyepiece WF12.5X(Φ15mm)
Objective lens	Achromatic Objective 10X/0.25/WD7.31mm
	Semi-plan achromatic objective 40X/0.65/WD0.66mm
	Achromatic objective 100X/1.25/WD0.37mm (oil)
Converter	Four-hole converter
Focusing mechanism	Adjustment range: 25mm, scale grid value: 0.002mm
Stage	Double-layer mechanical mobile type (size: 180mmX200mm, moving range: 50mmX70mm)
Lighting system	6V 20W halogen lamp, brightness adjustable
Color filter	Yellow filter, Green filter, Blue filter
<b>Optional configuration</b>	
Eyepiece	Flat field eyepiece WF10X(Φ18mm) with cross differentiation ruler
Metallographic Analysis System	FMIA2023 genuine metallographic analysis software, micrometer
Camera	5 million Sony chip camera device, 0.5X adapter lens interface.
Computer	HP

### OBSERVATION SYSTEM

The supporting area of the instrument base is large, and the curved arm is firm, so that the center of gravity of the instrument is low and stable and reliable. Because the eyepiece and the supporting surface are inclined at 45°, the observation is comfortable.



### MECHANICAL STAGE

Mechanically moving stage with built-in rotatable circular stage plate. There are two types of trays, with inner hole φ10mm and φ20mm.



### LIGHTING SYSTEM

Adopt Kohler lighting system, with variable light bar, 6V20W halogen lamp lighting, adjustable brightness. AC 220V (50Hz).

