

HST101-A Binocular Inverted Metallurgical Microscope



Introduction

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.

2. Main Specifications

Standard configuration		Model
Item	Specification	HST101-A

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	●
Optional configuration		
Item	Specification	
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	○