

HST402-B Large upright metallographic microscope microscope



Application

This device computerized metallographic microscope is a trinocular metallographic microscope with a flexible system combination, excellent imaging performance, and stable system structure. Each operating mechanism is designed according to ergonomics to minimize operator fatigue. The modular component design allows for free combination of system functions. The MX series is specialized in industrial testing and metallographic analysis.

Observation tube

Wide field of view hinge type a trinocular observation tube, suitable for use with 4-inch platforms.



Reflective illuminator

Single high-power 5W white LED illumination with oblique lighting mechanism. When switching to oblique lighting, it can present three-dimensional patterns on different material parts of the object surface, increasing the contrast and visual effect of observation.



High performance objective lens converter

The converter adopts a precision bearing design, with a light and comfortable rotating feel, high repeated positioning accuracy, and good control of the concentricity of the objective lens after conversion. Different hole positions of the converter can be configured according to requirements.



Main Specifications

Standard configuration		Model
Item	Specification	HST402-B
Optical system	Infinite color difference correction optical system	■
Observation tube	30 ° tilt, hinged trinocular observation tube, 360 ° rotation; Pupil distance adjustment range: 54-75mm, unilateral diopter adjustment: ± 5 diopters; Two level splitting ratio: binocular: trinocular s=100:0 or 50:50	■
Eyepiece	High Eye Point Large Field Flat Field Eyepiece PL10X/22mm	■
Objective lens	LMPL 5X /0.15 DIC WD10.8mm	■
	LMPL 10X/0.3 DIC WD12.2mm	■
	LMPL 20X/0.45 DIC WD4.0mm	■
	LMPFL 50X/0.55 WD7.9mm	
Converter	Fiver-hole converter, with DIC slots	■
Focusing mechanism	Coarse adjustment coaxial, coarse adjustment stroke 30mm, fine adjustment accuracy 0.001mm, equipped with coarse adjustment mechanism upper limit and elasticity adjustment device. Built in 100-240V wide voltage transformer, dual power output	■

Stage	4 "Double layer mechanical mobile platform, platform area 230X215mm, stroke 105x105mm, with glass platform, right hand X and Y mobile handwheel, equipped with platform interface	■
Reflective lighting system	Equipped with variable field of view and aperture apertures, both can adjust the center; Equipped with filter slots and polarizer slots; Equipped with oblique lighting switch lever. A single high-power 5W LED with warm colors and continuously adjustable light intensity.	■
		■
Transmission lighting system	Single high-power 5W LED, warm color (color temperature 2850K-3250K), continuously adjustable light intensity. N. A.0.5 spotlight with variable aperture aperture	■
		■
Other Accessory	Polarization mirror insertion plate, fixed polarization mirror insertion plate, 360 ° rotating polarization mirror insertion plate	
Optional configuration		
Item	Specification	
Eyepiece	High eye point, large field of view, flat field eyepiece PL10X/22mm (adjustable visibility with micrometer)	O
	High Eye Point Large Field Flat Field Eyepiece PL15X/16mm	O
Optional objective lens	Infinite distance flat field achromatic objective LMPFL 100X/0.80 WD2.1mm	O
Differential interference	DIC differential interference component	O
Filter	Interference filter group for reflection	O
Computer	HP	O
Metallographic analysis system	FMIA2023 genuine metallographic analysis software, Sony chip 12 million camera device, 0.5X adapter mirror interface, high-precision micrometer (100x0.01mm, 100x0.01cm, calibration point: d=0.15mm, d=0.07mm).	O

Note: "■" is the standard configuration; "O" is the option