

HST301-E Upright metallographic microscope



❖ HST301-E Overview of Upright Metallographic Microscope Products:

HST301-E Metallographic microscopes provide customers with cost-effective metallographic analysis and industrial testing solutions with excellent imaging systems and comfortable operating experiences. The structure adopts an observation tube with the best comfortable angle for newborn beds, which can alleviate the tension and fatigue of users under long-term working conditions and ensure the best observation state. The scale on the observation tube is convenient for users to adjust the optimal pupillary distance range by themselves.

High precision internal positioning 5-hole bright field encoder converter with brightness memory function.

The encoder type objective lens converter integrates the hardware settings of the microscope with our FCL-RS image measurement software. The magnification of the objective lens is displayed on the screen, and the calibration value recorded in the software can be automatically adjusted when switching magnification to prevent measurement errors caused by forgetting to switch software magnification.

Brightness memory function, which can remember the illumination brightness when

using each objective lens. When different objectives are converted to each other, the light intensity is automatically adjusted to reduce visual fatigue and improve work efficiency.

The newly designed integrated T-shaped frame is made of all metal high-pressure casting, with excellent stability. When observed at high magnification, the image surface does not shake, ensuring the detection accuracy of high magnification measurements.

The falling beam illumination system adopts the Kola illumination system, with field stop and aperture stop, preset polarizer, analyzer, and color filter slots. A single 10W LED warm white light illumination can minimize visual fatigue for observers.

The field stop and aperture stop are equipped with a pull rod device with adjustable center, which can flexibly adjust the size of the illumination range and effectively avoid the influence of stray light on the image.

Polarizing mirror and analyzer can achieve simple polarization observation.

❖ HST301-E Technical parameter table of upright metallographic microscope:

Component	Specifications
optical system	Infinite chromatic aberration correction optical system
observing tube	30 ° tilt, infinite hinge three-way observation tube, pupil distance adjustment: 50mm~75mm, unilateral visual acuity adjustment: -2/+8 diopters, two spectral ratios R: T=100:0 or 50:50
eyepiece	High eye point, large field of view, flat field eyepiece SWH10X/23mm (Adjustable visual acuity)
objective	Flat field semi complex metal phase bright field objective lens 5X/NA0.15 WD15
	Flat field semi complex metal phase bright field objective lens 10X/NA0.30 WD8.4
	Flat field semi complex metal phase bright field objective lens 20X/NA0.45 WD3.0
	Flat field semi full metal phase bright field objective lens

	50X/NA0.75 WD3.0
	Flat field semi complex metal phase bright field objective lens 100X/NA0.90 WD1.0 (Optional)
Encoding type objective lens converter	High precision internal positioning 5-hole bright field encoder converter with brightness memory function. The encoder type objective lens converter integrates the hardware settings of the microscope with the FCL-RS image measurement software. The magnification of the objective lens is displayed on the screen, and the calibration value recorded in the software can be automatically adjusted when switching magnification, eliminating measurement errors caused by forgetting to switch software magnification. The brightness memory function can remember the illumination brightness when using each objective lens, and automatically adjust the light intensity when different objectives are switched to each other, reducing visual fatigue and improving work efficiency.
Focusing mechanism	Low hand position coarse micro coaxial focusing mechanism, coarse adjustment stroke 30mm, fine adjustment accuracy 0.001mm . Equipped with an adjustable elastic device to prevent slipping and a random upper limit device. Equipped with a platform position up and down adjustment mechanism, the maximum sample height is 40mm.
A platform for loading items	Double layer mechanical mobile platform, with coaxial adjustment in the X and Y directions at low hand positions; Platform area 240X175mm, worktable: 135X125mm, movement range: 75mm X50mm, can be equipped with a reflective metal carrier table.
Reflective lighting system	Adaptive wide voltage 100V-240V_AC50/60Hz, reflector chamber, single high-power 10W LED, warm color, Kola lighting, with field stop and aperture stop, center adjustable.
Polarization component	Polarizer and polarizer.

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