

HST501M

Research Grade Metallographic Microscope



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- HIGH EYE POINT ULTRA WIDE FIELD PLAN EYEPIECE

The eyepiece observation field range of the RX-50M series has been upgraded from the traditional 22mm to 25mm and 26.5mm, providing a flatter observation range. The larger diopter adjustment range can meet the needs of more users.



- PROFESSIONAL INFINITY WORKING DISTANCE SEMI-APOCHROMATIC OBJECTIVE LENS

RX-50M series objective lenses use high transmittance lenses and advanced coating technology to truly restore the natural colors of samples. Only one lens is needed to achieve brightfield, darkfield, polarized light, and differential interference observation. The semi-apochromatic design has excellent chromatic aberration correction performance, improving the contrast and clarity of the observed image.



- NORMANSKI DIFFERENTIAL INTERFERENCE CONTRAST SYSTEM

The newly developed U-DICR differential interference component can convert subtle height differences that cannot be detected under bright field observation into high-contrast light and dark differences and display them in the form of three-dimensional relief, such as LCD conductive particles, precision disk surface scratches, etc.



◆ APPLICATION

The HST501M research-grade metallographic microscope is a trinocular upright metallographic microscope. This machine integrates many firsts. From appearance to performance, it follows the leading international design trends and is committed to expanding a new pattern in the industrial field. It can provide multiple observation functions such as reflection bright field, reflection dark field, transmission bright field, transmission and reflection polarized light, and reflection differential interference.

◆ MAIN SPECIFICATIONS

Item	Specification	501M
Optical system	Infinity chromatic aberration correction optical system	Included
observation tube	30° tilt, infinity hinged three-way observation tube, interpupillary distance adjustment: 50mm~76mm, two-speed splitting ratio, binocular: trinocular = 100:0 or 0:100	Included
Eyepiece	High eye point, large field of view plan eyepiece PL10X/25mm, adjustable diopter	Included
Light and dark field half complex achromatic objective lens	LMPLFL 5X /0.15 BD DIC WD13.5mm	Included
	LMPLFL10X/0.30 BD DIC WD9.0mm	Included
	LMPLFL20X/0.5 BD DIC WD2.5mm	Included
	LMPLFL50X/0.80 BD WD1.0mm	Included
Converter	Bright and dark field 6-hole converter with DIC slot	Included
Frame	Transflective dual-purpose frame, low-hand position coarse and micro coaxial focusing mechanism. The coarse adjustment stroke is 25mm and the fine adjustment accuracy is 0.001mm. Equipped with an adjustable elastic device and a random upper limit device to prevent sliding. Built-in 100-240V wide voltage system, dual power output, digital dimming, light intensity setting and reset functions, reflected/transmitted light switch, built-in transmitted light color filter (LBD, ND6, ND25)	Included
Stage	Right-hand 4-inch mechanical stage, stroke (X) 105mm*(Y) 102mm, with Y-axis locking mechanism, can be equipped with transmission system light baffle, with glass stage plate	Included
condenser	Swing-out achromatic condenser (N.A.0.9)	Included
Reflected illuminator	Bright and dark field reflection illuminator, with variable aperture diaphragm, field diaphragm, center adjustable; with bright and dark field illumination switching device; with color filter slot, with polarizer/analyzer slot	Included
lamp room	12V100W halogen lamp chamber, universal for transmission and reflection, pre-ordered center	Included
other attachments	Polarizer insert plate, 360° rotating analyzer insert plate, interference filter set for reflection	Included
Optional Configuration		
Metallographic analysis system	Metallographic analysis software, Sony chip 12 million camera device, 0.5X adapter mirror interface, high-precision micrometer.	
Eyepiece	High eye point, large field of view plan eyepiece PL10X/25mm, adjustable diopter, can be equipped with single-scale cross reticle	
Objective	LMPLFL100X/0.90 BD WD1.0mm	
Differential interference	DIC differential interference components	
Digital camera	20-megapixel Sony chip camera device, 1X adapter lens interface	
Computer	HP computer	