

HST 201-B

Research Grade Metallographic Microscope



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◆ INTRODUCTION

HST 201-B research grade metallographic microscope is a three-eye inverted metallographic microscope, using a newly designed infinity optical system, can be widely used in casting, smelting, heat treatment research, raw material inspection or material processing analysis and other inverted microscopes. The machine covers a wide range of observation methods such as bright field, dark field, simple polarization, differential interference, etc., to meet a variety of research needs.

Comfortable and simple operation mode

In order to meet the long-term observation needs of users, the HST 201-B uses a low hand mode and is equipped with a 360° rotating binocular viewing cylinder, which is fully ergonomic.

Stable and thoughtful appearance design

HST 201-B fuselage is made of all-metal casting, the surface is treated by anti-corrosion and wear-resistant technology, and the quality is guaranteed and solid. Make full use of the built-in space of the fuselage to place the instrument disassembly tool, which is commonly used in the main parts of the disassembly instrument, pragmatism, convenient storage.

Pre-magnification display function

Front objective magnification display function, through the built-in magnification sensor, the current magnification is displayed in front of the instrument, making the research work more convenient.

New intelligent ECO system

The ECO infrared sensor system is added with the concept of environmental protection and economy. When the microscope is not operated for a long time, the system will automatically turn off the power or restart to save energy consumption.

◆ MAIN SPECIFICATIONS

Unit	Specification
Optical system	Infinite distance chromatic aberration correction optical system
observation tube	Triocular observation tube,45° tilt, hinge group can be rotated 360°, fixed eyepiece tube, pupil distance adjustment range 50-75mm, two-stage split ratio: binocular: triocular =100:0 or 0:100
Eyepiece	High eye point large field of view flat field eyepiece PL10X/22mm, adjustable visibility.
Objective lens	Infinite long range light and dark field objective: LMPL5X /0.15BD DIC WD9.0
	Infinitesimal long range light and dark field objective: LMPL10X/0.30BD DIC WD9.0
	Infinitesimal long range light and dark field objective: LMPL20X/0.45BD DIC WD3.4
	Infinite long distance semi-apochromatic objective: LMPLFL50X/0.55 BD WD7.5
Converter	Internal positioning 5-hole bright and dark field converter (with DIC slot) with built-in power sensor
Rack	Reflected light and dark field metallurgical frame, using low hand position coarse fine-tuning coaxial, coarse adjustment stroke 9mm, focus face up 6.5mm, down 2.5mm, fine-tuning accuracy 0.002mm, with a tight adjustment handwheel to prevent sliding With light and dark field switching device, with variable field of view diaphragm, aperture diaphragm, the center can be adjusted; With filter slot and polarizing device slot, with lamp source brightness indicator, with infrared sensing and objective magnification display function
Stage	Three-layer mechanical mobile platform, platform size: 240 (W) ×250 (L), moving range 50×50mm, two-way rail transmission, right hand low hand control. Metal platform center hole φ12mm.
Lighting system	External wide voltage transformer, input 100-240V, output 15V13.4A, 12V100W halogen lamp, brightness continuously adjustable
Polarizing attachment	Polarizing mirror insert plate, fixed polarizing mirror insert plate, 360° rotating polarizing mirror insert plate
Color filter	LBD filter (φ32mm).
OPTIONAL	
Eyepiece	High eye point large field of view flat field eyepiece PL10X/22mm, adjustable visibility, with micrometer
	High eye point large field of view flat field eyepiece PL15X/16mm, adjustable visibility
Metallographic analysis system	FMIA2023 Genuine metallographic analysis software, SONY chip USB3.0, 12 million pixel camera device, 0.5X adaptive mirror interface, micrometer (with: specifications 100x0.01mm, 100x0.01cm, calibration point d = 0.15mm, d = 0.07mm).
Objective lens	Infinite long distance semi-apochromatic objective: LMPLFL100X/0.80 BD WD2.1
Differential interference	DIC differential interference module
Camera unit	20 million pixel SONY chip camera device, 1X adaptive mirror interface
Computer	HP