

HST 301-DW Medium-sized upright metallographic microscope



Introduction:

metallographic microscope is equipped with a microscope host, high-definition camera device, and genuine metallographic image analysis software, suitable for microscopic observation of opaque or transparent objects. It provides excellent optical performance and product system upgrades, realizes synchronous and independent illumination of transmission and reflection, polarized observation, bright and dark field observation and other functions. It is widely used in the analysis of metallographic structure of metal materials (such as pearlite, spheroidization rate, grain size, graphite morphology, etc.), teaching and research metallographic analysis, precision engineering measurement and other fields.



Large field eyepiece/infinite bright dark field objective lens

The eyepiece adopts a large field flat field eyepiece with a field of view of 22mm. Provides a spacious and flat observation space. Long working distance bright and dark field metallographic objective lens improves the level of color difference correction, while adjusting the film system design to achieve high resolution, further enhancing image resolution and color reproduction, making user observation more comfortable.



High definition Sony chip camera device

The FEG series camera is an ideal grade metallographic microscope camera with Sony CMOS sensor standard C-type camera, suitable for high-quality bright field imaging and materials science applications.

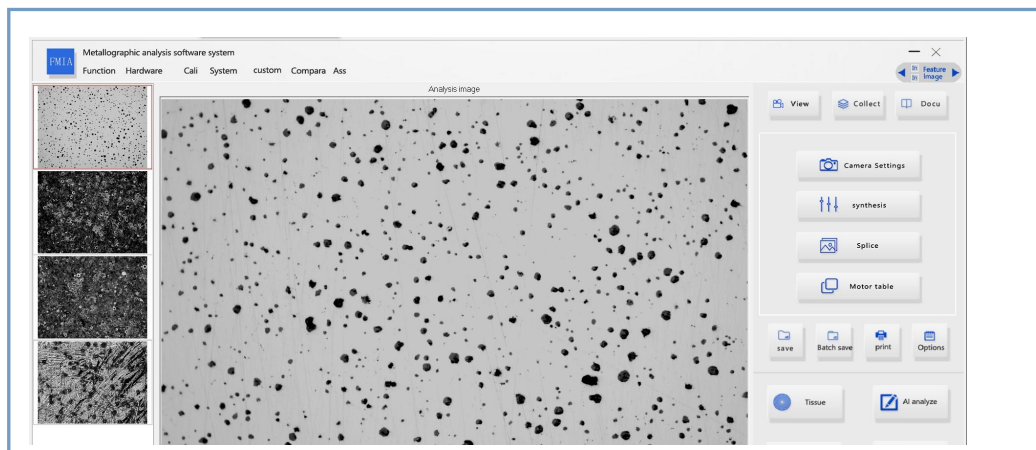
Polarized observation

Polarization observation can facilitate the observation of the state of the sample under different polarization angles of light without moving the sample.



FMIA2026 metallographic image analysis system

Equipped with a genuine metallographic image analysis system, multiple advanced functions can be customized to make the metallographic detection process more professional, intelligent, and simplified for users.



Technical parameter table of metallographic microscope:

parts	Specifications
optical system	Infinite chromatic aberration correction optical system
optical system	Triple eyepiece, tilted at 30 degrees, (with built-in polarizer, switchable)
Observation tube	Big View WF10X/22mm
Infinite dark field objective lens	PL L5X/0.12 BD WD9.7mm PL L10X/0.25 BD WD9.3mm PL L20X/0.40 BD WD7.20mm PL L40X/0.60 BD WD3.00mm
converter	Five holes (inward ball positioning)
focusing system	Coarse micro coaxial focusing, micro grid value: 2 μ m, adjustable coarse tension, with locking and limiting devices
Carrier platform	Double layer mechanical mobile stage, external dimensions: 210 * 140mm, movement range: 63 * 50mm
Falling light illumination system	12V50W halogen lamp, adjustable brightness, equipped with yellow, blue, green color filters and frosted glass sheets, built-in field of view light bar, aperture light bar, color filter conversion device, push-pull analyzer and polarizer.

Transmissive lighting system	Abbe spotlight NA.1.25 can be raised and lowered, with a built-in field of view light bar, 12V30W halogen lamp, and adjustable brightness
Metallographic analysis system	FMIA2026 genuine metallographic analysis software, Sony chip 12 million camera device, 0.65X adaptive mirror interface, micrometer.

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