

HST-BJ-X Portable Metallographic Microscope



HST Group Co.,LTD.

Development Base of Advanced Testing Machine Of China

Application

The HST-BJ-X portable metallographic microscope has its own vertical illumination light source, it can be easily used on-site to identify the structure of various metals and alloys when samples cannot be produced. It is a microscope suitable for metallographic inspection and failure analysis of various large workpieces on site. It does not require cutting and sampling, but directly grinds and polishes the workpiece to ensure the integrity of the workpiece. The portable metallographic microscope is suitable for aviation manufacturing, machinery manufacturing, and vehicles. Manufacturing, manufacturing and inspection of boilers and pressure vessels, petrochemical, railway, shipbuilding, power plants, power stations, equipment installation, large molds, safety testing, quality supervision, physical and chemical laboratories and other industries. It

can also be widely used in factories and laboratories for casting quality identification, raw material inspection, or research and analysis of metallographic structures after material processing.

Magnetic base:

The microscope base is equipped with a magnetic suction seat, which can be directly attached to the workpiece to observe the on-site metallographic examination of the tissue. The gear-type XY-axis moving platform ensures that it does not automatically move horizontally.



Lighting system:

Use 6V3W LED lighting and rechargeable lithium battery.

Compact and precision optical instruments

The equipment is small and lightweight, and comes with a portable aluminum alloy packaging box, making it easy to carry and test on site.



On-site metallographic sample preparation package (optional)

An angle grinder is used with sandpaper, wool felt, and diamond spray polishing agent for on-site sample preparation. The operation is simple and quick.



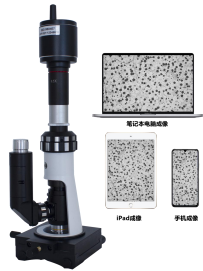
On-site metallographic image analysis and imaging system (optional)

Equipped with FMIA2023 genuine metallographic analysis system and WiFi wireless camera, it can realize on-site image collection, metallographic structure analysis, metallographic inspection report generation and other functions.

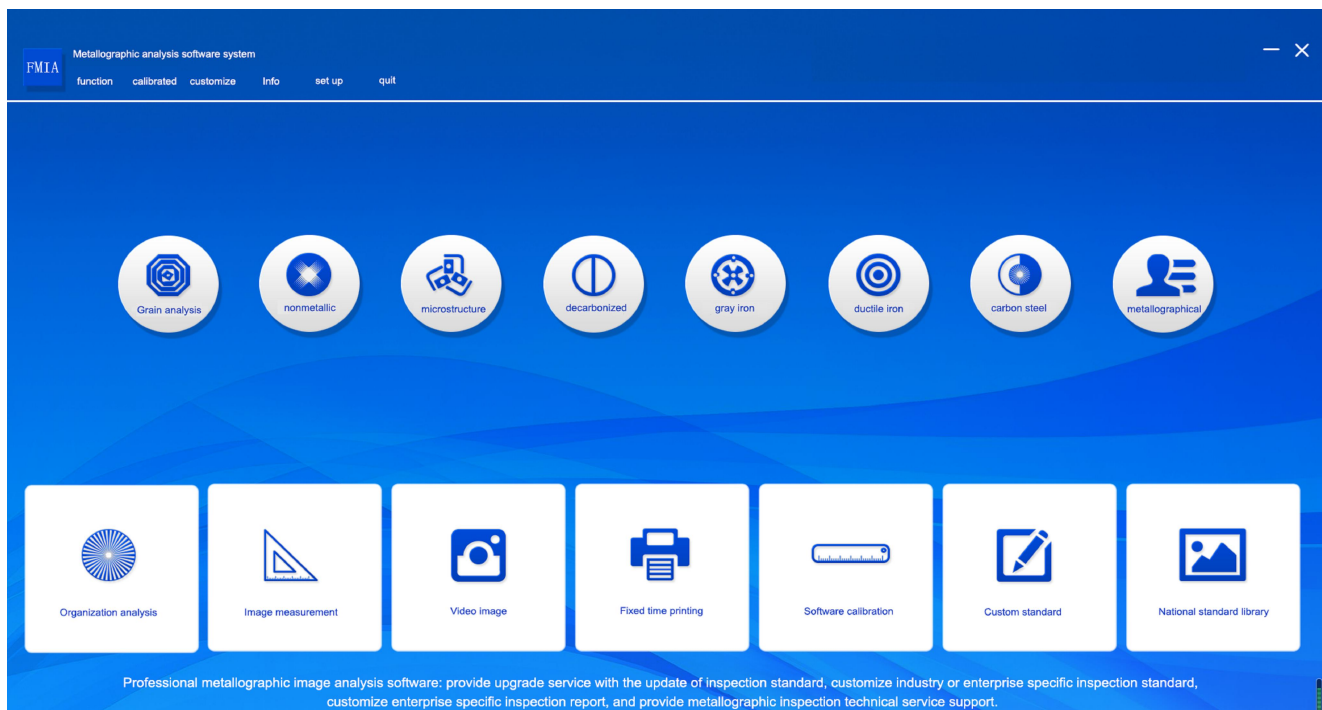


Technology Parameter:

Standard Configuration		Model
Item	Specification	HST-BJ-X
Optical System	Finite distance chromatic aberration correction optical system	Included
Observing tube	Monocular viewing tube.	Included
Eyepiece	Wide view WF10X(Φ18mm)	Included
Objectives	Long distance plan achromatic objective lens : PL L 10X/0.25 WD8.8mm	Included
	Long distance plan achromatic objective lens :PL L 40X/0.6 WD3.73mm	Included
Lighting System	6V3W LED Lamp lighting, rechargeable lithium battery	Included
Base	X-Y Magnetic base, quick non-magnetic base	Included

Optional Configuration			
Plan 1	HST-BJ-X portable metallographic microscope standard host		0
	Metallographic analysis software		
	5 million pixel Sony chip camera device		
	0.5X adapter mirror interface		
	High precision micrometer		
Plan 2	HST-BJ-X portable metallographic microscope standard host		0
	Metallographic analysis software		
	WIFI camera		
	1X adapter mirror interface		
	High precision micrometer		

New version of metallographic image analysis software



Overview:

The metallographic image analysis software system is designed by our company to improve the product qualification rate by combining the current needs of foundry companies, auto parts companies, heat

treatment companies, bearing steel industries, power system industries, railway parts industries, and related testing companies for metallographic testing. , to help improve the inspection level of various laboratories, we collected the needs and opinions of experts and teachers in various industries to develop this set of FMIA2023 version metallographic image analysis software system.

The national standard library of the software system contains about 700 commonly used sub-modules in 150 categories, basically covering commonly used metallographic standards and adapting to the metallographic analysis and inspection requirements of most units. Designate and open relevant categories according to the needs of different industries to meet industry testing requirements. All modules can be called for free for life, and standards can be upgraded for free for life.

In view of the continuous increase in new materials and imported grade materials, materials and evaluation standards that have not yet been entered in the software can be customized and entered.

Features:

- Software installation is more intuitive and concise

The new software installation, registration, calibration and boot mode are simple and clear, and can be completed through default prompts.

- Genuine software assurance system

After the software is installed, first activate the genuine software, and then register the computer hardware ID to ensure customers' genuine rights and interests.

- Demand standards can be customized

In addition to standard detection modules, special detection modules can be customized according to customer needs, such as corporate standards, special industry standards, etc.

- Quick access to 7 major inspection categories

Statistics create 7 categories of quick entry: grain size, non-metallic inclusions, microstructure of steel, decarburization layer analysis, gray iron, ductile iron, carbon steel spheroidization, etc., plus a metallographic tutorial.

- Report template can be modified

Report templates can be tailored for different businesses.

- Genuine software can be upgraded

According to the National Standardization Committee standard implementation time, the software will be upgraded free of charge.

- Applicable to a wide range of computer systems

This software can be installed and run under Windows 7 and Windows 10.

Packing list of HST-BJ-X:



No.	Item	Configuration
1	Main host	Main host: 1 set
		Eyepeice WF10X/18mm : 1 pc
		Long distance plan achromatic objective lens : 10X、 40X one each
2	Metallographic analysis software (optional)	Software encryption lock, driver USB disk, high-precision micrometer: 1 each
3	WIFI camera (optional)	WIFI camera, charging head, data cable: 1 each
	Industrial camera (optional)	5 million pixel Sony chip camera device, etc.
4	Grinding supporting equipment (optional)	Angle grinder: 1 set (including Bosch original tool box)
		Sample preparation consumables: sticky plate, wool wheel, sandpaper



Worldwide Headquarters

HST GROUP CO., LIMITED

NO. 4915, West Jingshi Road, Jinan 250012, PR CHINA.

Tel:+86-15910081986 Fax:+86-531-86113759

Email: admin@hssdtest.com

Website: <http://www.hssdgroup.com>

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