

A14.404-AW Computerized Research Grade Metallurgical Microscope



The picture is for reference only

1. Introduction

The A14.404-AW computerized research-grade metallographic microscope is a trinocular inverted Metallographic Microscope with a newly designed infinity optical system. It can be widely used in casting, smelting, heat treatment research, raw material inspection or material processing analysis Inverted microscope. The machine comprehensively covers various observation methods such as bright field, dark field, simple polarized light, differential interference, etc., and adapts to various research needs.

I Comfortable and simple operating mode

In order to meet the long-term observation needs of users, the FX-41MW uses a low-hand position operation mode and is equipped with a 360 ° rotating binocular observation tube, which fully conforms to the ergonomic observation mode.

I Stable and intimate design

The FX-41MW body is made of all-metal casting, the surface is treated with anti-corrosion and wear-resistant technology, and the quality is guaranteed and solid. Make full use of the built-in space of the fuselage, place the instrument disassembly tool, which is generally used to disassemble the main parts of the instrument, pragmatism, convenient storage.

I Front magnification display function

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

I New intelligent ECO system

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

2. Specifications

Configuration		Model
Item	Specification	A14.404-AW
Optical system	Infinite chromatic aberration correction optical system	■
Observation tube	Trinocular observation tube, tilted at 45 °, hinge set can rotate 360 °, fixed eyepiece tube, pupil distance adjustment range 50-75mm, two-stage split ratio: binocular: trinocular = 100: 0 or 0: 100	■
Eyepiece	High eye point wide field plan eyepiece PL10X / 22mm, adjustable diopter.	■
	High eye point wide field plan eyepiece PL10X / 22mm, adjustable diopter, with micrometer	O
	High eye point wide field plan eyepiece PL15X / 16mm, adjustable diopter	O
Objective lens	Infinity long distance bright and dark field objective lens: LMPL5X /0.15BD DIC WD9.0	■
	Infinity long distance bright and dark field objective lens: LMPL10X/0.30BD DIC WD9.0	■
	Infinity long distance bright and dark field objective lens: LMPL20X/0.45BD DIC WD3.4	■
	Infinity long distance light and dark semi-apochromatic objective lens: LMPLFL50X/0.55 BD WD7.5	■
	Infinity long distance light and dark semi-apochromatic objective lens : LMPLFL100X/0.80 BD WD2.1	O
Converter	Internal positioning 5 hole bright and dark field converter (with DIC slot), built-in magnification sensor	■
Frame	Reflective bright and dark field gold camera frame, using low-hand	■

	position coarse and fine adjustment coaxial, coarse adjustment stroke 9mm, focal plane upward 6.5mm, downward 2.5mm, fine adjustment accuracy 0.002mm, with elastic adjustment handwheel to prevent sliding	
	With bright and dark field switching device, with variable field diaphragm and aperture diaphragm, the center is adjustable; with color filter slot and polarizer slot, with light source brightness indicator bar, with infrared sensor and objective magnification display	■
Stage	Three-layer mechanical mobile platform, platform size: 240 (W) × 250 (L), moving range 50 × 50mm, bidirectional line rail transmission, right-hand low-hand position control	■
Lighting system	Use external wide voltage transformer, input 100-240V, output 15V13.4A, 12V100W halogen lamp, brightness is continuously adjustable	■
Polarized accessories	Polarizer insert, fixed analyzer insert, 360 ° rotating analyzer insert	■
Color filter	LBD Color filter	■
Differential interference	DIC Differential interference components	O
Metallographic analysis system	FMIA2020 Genuine metallographic analysis software, Sony chip 5 million camera, 0.5X adapter mirror interface, micrometer.	■
Computer	HP	O

Note: “■” is standard configuration; “O” is optional





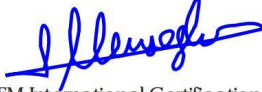
MACHINERY DIRECTIVE ATTESTATION OF CONFORMITY

Technical file of the company mentioned below has been inspected and audit has been completed successfully.

2006/42/EC Machinery Directive Annex VIII has been taken as references for these processes.

Company Name : **JINAN HENSGRAND INSTRUMENT CO., LTD.**
Company Address : NO.4915, WEST JINGSHI ROAD, JINAN, CHINA
Related Directives and Annex : **2006/42/EC Machinery Directive/Annex VIII**
Related Standards : **EN ISO 12100:2010, EN 60204-1:2018**
Product Name : **TESTING MACHINE**
Report No and Date : TCF-JHIC230128-MD
Product Brand/Model/Type : WDS-1, WDS-2, WDS-3, WDS-5, WDS-10, WDS-20, WDS-30, WDS-50, WDS-100, WDS-200, WDS-300, WDS-500, WDW-1, WDW-2, WDW-3, WDW-5, WDW-10, WDW-20, WDW-30, WDW-50, WDW-100, WDW-200, WDW-300, WDW-500, WDW-600, WDW-1000, WE-300, WE-600, WE-1000, WE-2000, WEW-300, WEW-600, WEW-1000, WEW-2000, WAW-300, WAW-600, WAW-1000, WAW-2000, WAW-3000, WAW-5000, WAW-6000, LAW-1000, JB-300B, JBS-300, JBW-300, JB-500B, JBS-500, JBW-500, JBW-750, CST-50, VU-2Y, VU-1S, DWC-40, DWC-60, DWC-80, DWC-100, DWC-196, YES-2000, YES-300, YAW-1000, YAW-300, YAW-2000, YAW-3000, YAW-5000, NDS-200, NDS-500, NDS-1000, NDS-2000, NDW-200, NDW-500, NDW-1000, NDW-2000, NDW-3000, NDW-5000, NDW-10000, HEZ-3, HEZ-6, HEZ-10, JWJ-10, TLS, TLW, HST-P50, HST-P100, HST-P200, HST-P300, RDJ, NDT, DWTT, GBW-60, GW-50, HST, XNR-400

Certificate Number : **M.2023.206.C81366**
Initial Assessment Date : 31.01.2023
Registration Date : 01.02.2023
Reissue Date/No : -
Expiry Date : **31.01.2028**


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