

Nexcope®

NIM900^{SERIES}

INVERTED METALLURGICAL MICROSCOPE



NOVEL
OPTICS



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Specifications are subject to change without any obligation on the part of the manufacturer. 2026.05

NIM910

Manual Research-Grade Inverted Microscope



Mechanical Stage

Three-layer mechanical moving platform, dimensions: 340×230mm, travel range: 130×85mm, maximum load capacity: 30kg. Spacious working area accommodates large and heavy specimens. The scratch-resistant surface suits observation of materials in diverse textures and shapes. Equipped with multiple stage plates and gaskets of varying shapes and apertures, ideal for observation and analysis of small-sized samples. Ergonomic low-profile hand knobs ensure precise and comfortable specimen positioning.



Clear imaging and reliable results

NIS Series Metallurgical Objectives

Adopting premium high-transmittance glass and advanced coating technology for accurate color reproduction. A wide selection of objectives is available to meet diverse inspection demands, including high-resolution, polarized light and long working distance models.



Multi-channel Outlets & Camera Ports

Optical outlets are arranged on the top and both sides of the microscope head for connecting cameras and various expansion accessories. The beam splitter turret enables quick and convenient switching of different light splitting ratios. Optional 0.5X, 0.7X and 1X C-mount interfaces and various cameras are available to meet diverse imaging requirements.



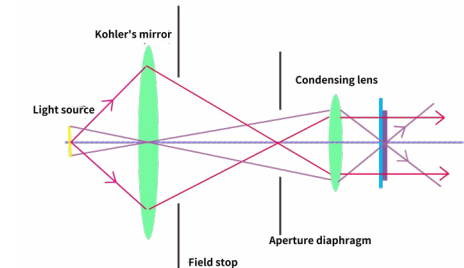
Intermediate Magnification Switching

Rapid switching between 1X and 1.5X magnification via the rotary dial, delivering finer specimen details and dependable inspection results.



Koehler Illumination

Regarded as an ideal microscopic illumination system, it delivers bright and even field of view and facilitates functional expansion of the microscope.



High flexibility with abundant application possibilities



Diverse adjustment sliders for sharp imaging

Field and aperture diaphragms adjust view size, image clarity and mitigate aberrations. Filter diaphragm easily regulates light brightness and hue. Analyzer slider optimizes imaging for polarized light and DIC observation. Combined use of multiple sliders guarantees high-quality microscopic images.



Six-station Observation Module Turret

Featuring six-station rotary structure, it can be easily detached from the main unit for convenient module installation. Rotate the turret to switch observation modes accurately and effortlessly.



Ergonomic Design for Comfortable Operation



Low-profile Layout

Focusing mechanism, stage control handles and brightness adjustment adopt low-position design, enabling users to operate the microscope in a relaxed posture.



45° Inclined Viewing Tube

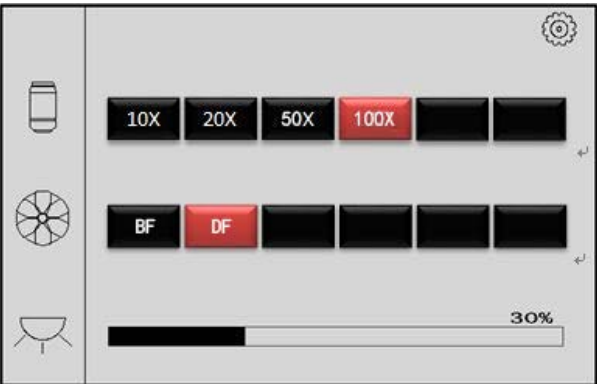
Allows natural viewing sitting or standing to reduce fatigue. Interpupillary distance and diopter are adjustable to fit different users.

NIM920
Encoded Research-Grade Inverted Microscope



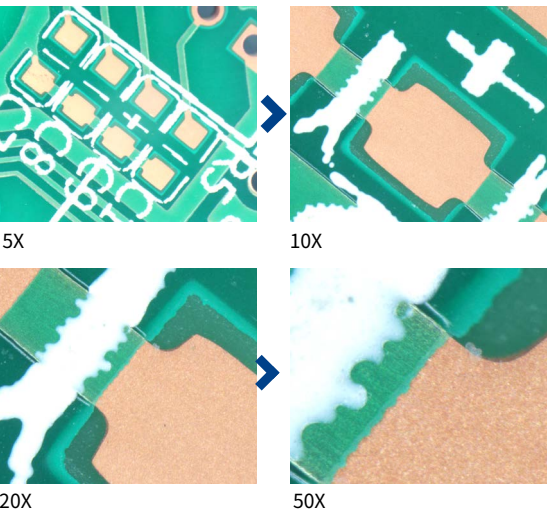
Microscope Status Display

- Digital magnification display of revolving nosepiece
- Band display of multi-function turret
- Brightness display with memory function
- Touch-sensitive brightness adjustment
- Magnification and band parameter setting via touch



Brightness Memory Function

It saves the illumination brightness for each objective. Light intensity adjusts automatically when switching lenses, relieving eye strain and boosting work efficiency.



NIM960

Motorized Research-Grade Inverted Microscope



Front-mounted Control Panel for Full Motorized Control

Equipped with a front control panel, NIB960 supports nearly all microscope operations, including motorized focusing, stage movement, objective selection, intermediate magnification switching, side port selection and aperture diaphragm adjustment. Control handles are integrated on the right side to save desktop space.

Microscope Status Display

状态/用户栏

观察方式: BF
多功能模块: BF
物镜: 10X
中间倍率: 1.5X
聚光镜: -
端口: L-100%
ESC: ● LIMIT: ●

光源亮度: 0
光源亮度: 2
照明方式: TL
IL-Shutter
IL

Magnification Switching

总放大倍数: 150 x
目视

物镜放大倍数: 10, 20, 50, 60, 100

端口: 左 - 100 %

中间倍率: 1, 1.5, GS3D

Stage Control

载物台: X/Y, Z

X: +10,266 mm
Y: -10,266 mm

平台: 粗调, 细调

限制: 保存位置, 复位, 保存

Motorized Objective Revolver

Motorized XY Stage

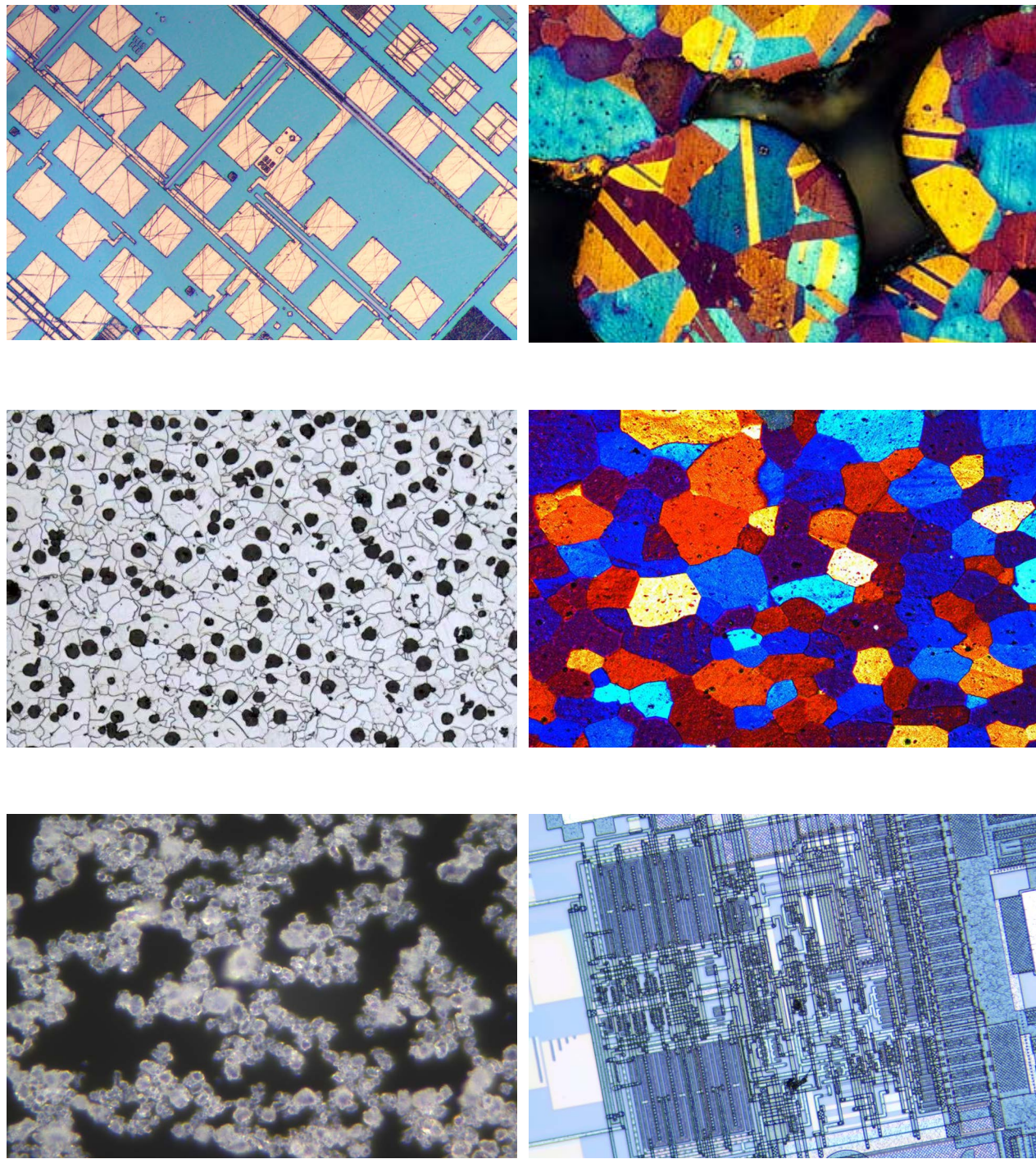
Z-axis Focusing

Joystick

Wide Application & Diverse Observation Modes

With advancing materials science research, single observation mode can no longer meet sophisticated research and inspection demands. NIM900 supports multiple observation modes, delivering clear, authentic and intact images for brightfield, polarized light, DIC and fluorescence observation.

Observation Method	Brightfield	Darkfield	DIC	Polarized
NIM900	√	√	√	√

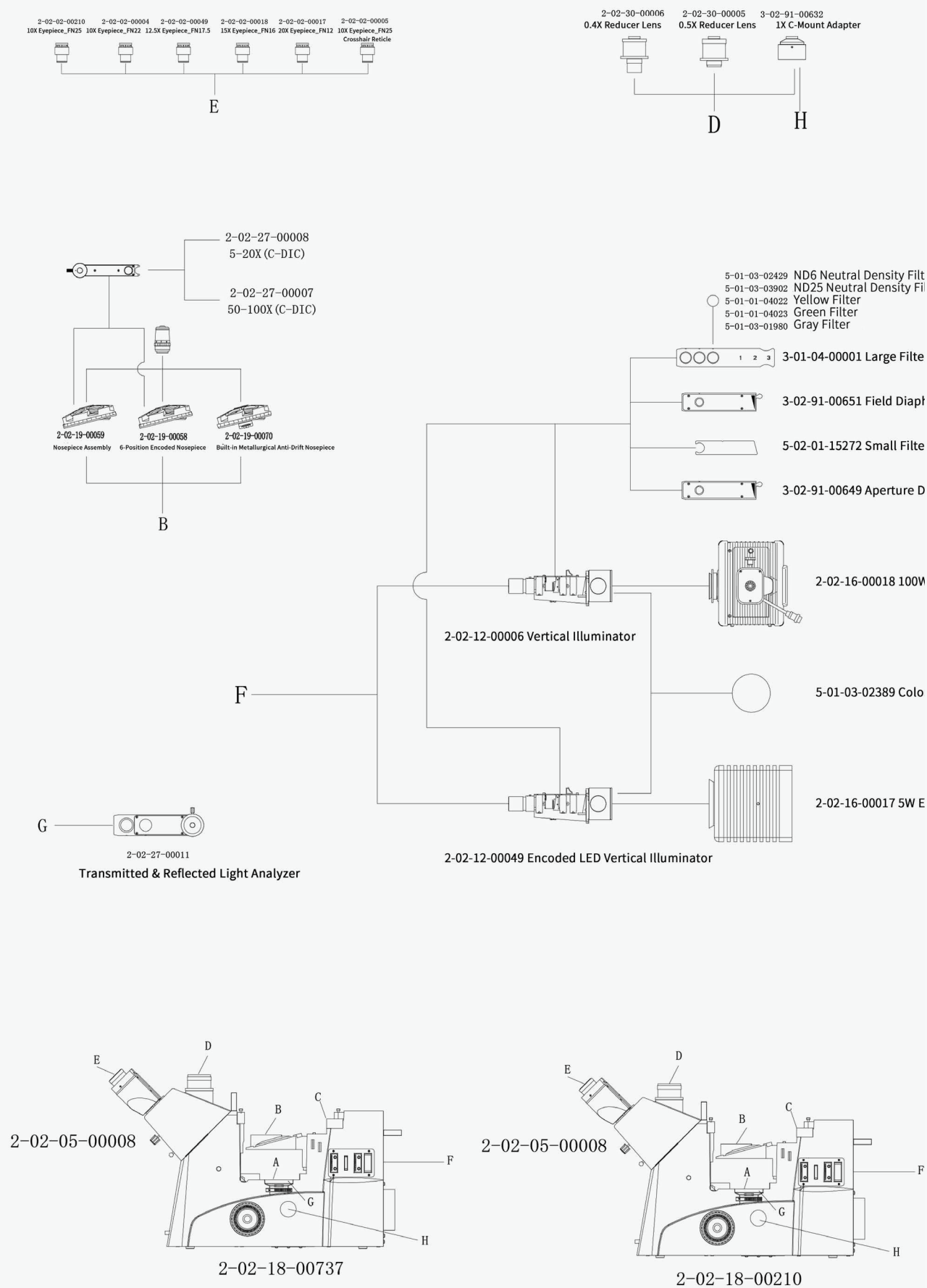


NIM900 Series Research-Grade Inverted Microscope Specifications

Item	NIM910	NIM920	NIM960
Optical System	NIS Infinity Optical System		
Eyepiece	· SW10X/22 · SW10X/25 · EW12.5X/17.5 · WF15X/16 · WF20X/12		
Observation Head	Hinged Trinocular Head (with Bertrand Lens), 45° Inclined, Interpupillary Distance: 47–78mm		
Objective Lens	Plan Semi-Apochromatic Objective / Plan Apochromatic Objective Lens		
Nosepiece	6-Position Nosepiece with DIC Slot	Encoded 6-Position Nosepiece with DIC Slot	Motorized 6-Position Nosepiece with DIC Slot
Illumination	Halogen Light Source	LED Light Source	
Focusing System	Coaxial Coarse & Fine Focus Mechanism: Coarse Travel: 2mm/Revolution, Fine Travel: 0.2mm/Revolution"		Motorized Focus Mechanism
Stage	3-Layer Mechanical Stage, Travel Range: 130×85mm, Flexible Handle; Custom Small Stages Can Be Installed on the Top Layer as Required"		390×230 Stage, Travel Range: 115×75mm, Max Speed: 71mm/s, Resolution: 0.1μm, Bidirectional Repeatability ≤ 5μm, Unidirectional Repeatability ≤ 1μm"
Stage Tray Accessories	Petri Dish Holder, Slide Holder, 96-Well Plate Holder, Φ20 Diaphragm, Φ28 Diaphragm, Water Immersion Diaphragm		Petri Dish Holder, Φ20 Diaphragm, Φ28 Diaphragm, Water Immersion Diaphragm
Intermediate Magnification	1X, 1.5X		
Display Screen	-	Microscope Status Display Screen	Touchscreen, for Touch Control and Microscope Status Display
Observation Methods	Brightfield, Darkfield, DIC, Polarized Light		
Multifunctional Module	Manual Turret-Type Multifunctional Module	Encoded Turret-Type Multifunctional Module	Motorized Turret-Type Multifunctional Module



SYSTEM LAYOUT



DIMENSION FIGURE

