



NP620

Polarizing Microscope



Experience the Unseen, Step into Clarity.

Nexcope

NP620

Polarizing Microscope



The polarizing microscope, an essential instrument in materials science and geology, reveals hidden properties of samples through unique polarized light technology.

The NP620 model employs polarizers to generate polarized light, enhancing the observation of birefringent materials in samples—such as minerals, polymers, fibers, liquid crystals—and visualizing their structures and stress distribution.

Equipped with a high-precision focus knob and a rotating stage, the NP620 enables in-depth analysis of optical characteristics from multiple angles. It serves as an ideal professional solution for applications including rock analysis, pharmaceutical crystal identification, polymer research, and gemology.

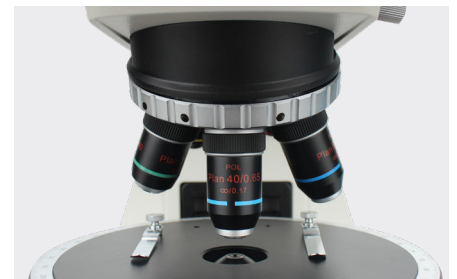
POLARIZING MICROSCOPE

Excellent optical design



Stress-Free Polarization Objectives

As core components of polarizing microscopes, our polarization objectives are engineered not only to deliver exceptional image clarity but also to incorporate a stress-free optical design. This ensures that all observed details in birefringent materials genuinely originate from the sample itself, enabling precise and reliable analysis without optical artifacts.



Versatile and Adaptive Illumination System

Breaking away from single-source limitations, our microscope features a modular illumination system compatible with both LED and halogen light sources.

LED illumination: Generates minimal heat, eliminating overheating risks and the need for cooling fans. Its extended service life significantly reduces maintenance costs.

Halogen illumination: A traditional choice for metallurgical microscopy, valued for its true-to-life imaging and widespread user acceptance.

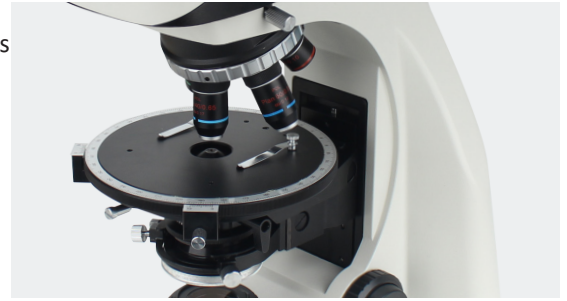


Professional polarizing microscope



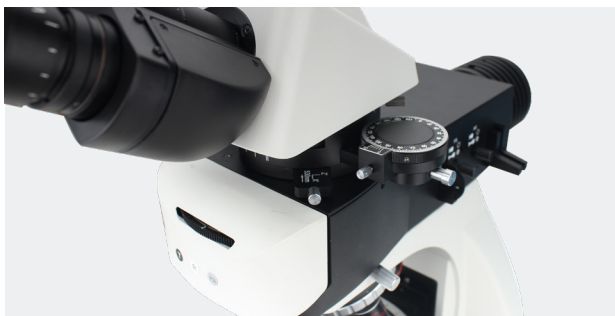
High-Precision Circular Rotating Stage

Engineered specifically for polarizing microscopy, this stage features a generous diameter and delivers smooth, precise operation. With 360° fine-calibrated positioning markings, it ensures accurate sample micro-adjustment. The integrated locking mechanism provides secure stabilization even during delicate manipulations, making it ideally suited for a wide range of demanding observation applications.



Intermediate Tube & Compensators

Featuring a built-in Bertrand lens for rapid switching between orthoscopic and conosopic observation modes, this system enables precise and quick adjustment of interference patterns. The 0–360° rotatable analyzer delivers exceptional image contrast, while compatibility with diverse optical compensators significantly enhances weak birefringence signals—revealing structures otherwise invisible under conventional viewing. These compensators not only improve observational clarity but also enable qualitative analysis, allowing accurate evaluation of sample birefringence retardation properties for more reliable material characterization.

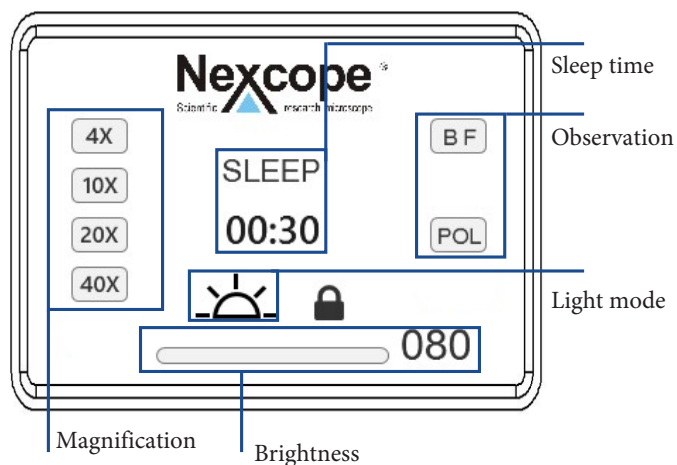


Details for Effortless Work



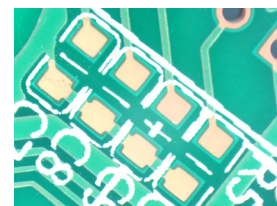
Microscope Status Display

A high-definition LCD screen located at the front of the microscope clearly displays essential parameters—including magnification, light intensity, color temperature, and illumination status—enabling real-time monitoring and operation.

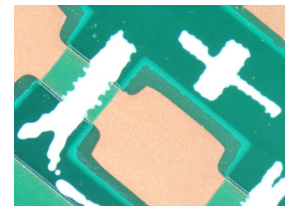


Intelligent Brightness Memory

The system automatically stores the optimal brightness level for each objective lens. When switching between objectives, it instantly adjusts the light intensity to the preset value, reducing eye strain and streamlining operations for enhanced workflow efficiency.



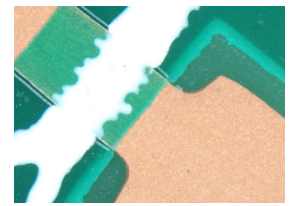
4X



10X



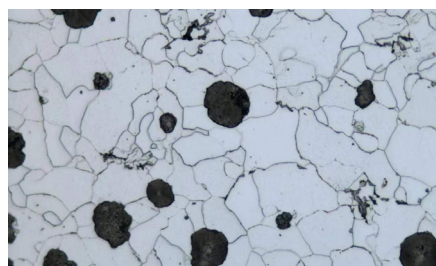
60X



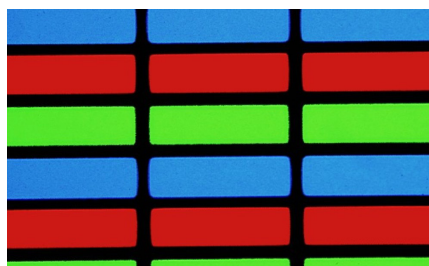
20X

NP620 Polarizing Microscope Configuration Table

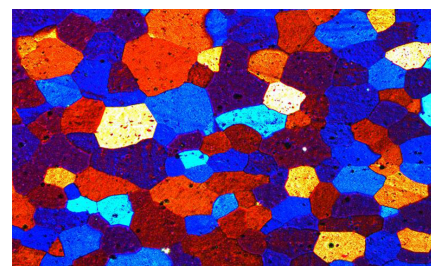
Item		Specification	NP620
Optical system		Infinity optical system	●
Eyepiece		High Eyepoint Widefield Plan Eyepiece 10×(20)	●
Viewing tube	Infinity, hinged binocular viewing tube, 30° inclination, 47–78mm interpupillary adjustment		○
	Infinity, hinged trinocular viewing tube, 30° inclination, 47–78mm interpupillary adjustment		●
Objective	Infinity Plan Achromatic Polarizing Objectives 4X, 10X, 20X, 40X, 60X		●
	Infinity Plan Achromatic Polarizing Objective 100X		○
Nosepiece		Internal 5-position encoded nosepiece	●
Stage		Rotating stage, diameter Φ160 mm, 360° equally divided graduations, vernier scale resolution 0.1°	●
Condenser		Condenser NA0.9	●
Focusing system		Coaxial coarse/fine focusing system, fine motion 0.2mm, 0.002mm, vertical travel range 30mm	●
Light	Transmission	5W LED	●
		12V20W Halogen	○
	Reflection	5W LED (LCD displays magnification, timer-based sleep mode, brightness, lock and more)	●
		12V50W Halogen	○
Observation		Bright field, Polarizing	●



Reflection Bright Field



Transmission Bright Field



Polarizing

Nexcope®

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