



Research-grade Polarizing Microscope with Wide Application Range and High Reliability

Traditional polarizing microscopes are used in geology, mineralogy, metallography and geological exploration. However, with the deepening of various disciplines, more and more fields have put forward demands for polarizing microscopes, including not only industrial fields such as construction, material analysis, semiconductor production and detection, but also natural science fields such as forensic science, medical inspection and biological research. At the same time, the application space and extensibility of microscopes are required to be higher, and customized microscopes with higher image clarity, better contrast and higher efficiency are needed. Polarizing microscope NP900 is powerful and comfortable. It is your reliable partner in scientific research and industrial inspection. It can realize many kinds of observation and provide excellent optical imaging quality.

Transmission observation

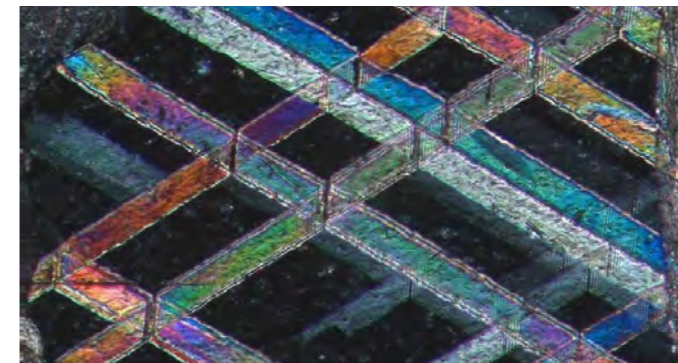
- Transmission Observation
- Dark Field
- Bright Field
- Phase Contrast

Reflection observation

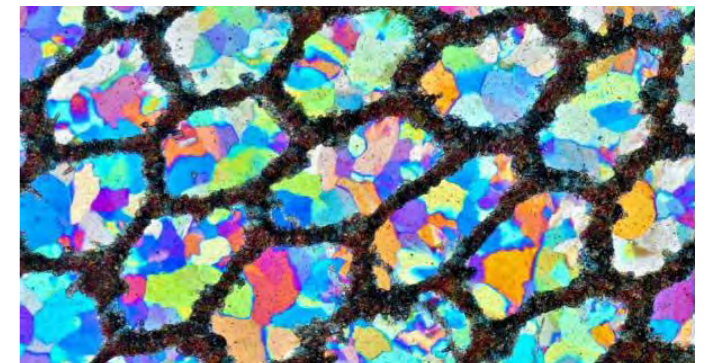
- Reflection observation
- Dark Field
- Bright Field
- Polarizing
- Fluorescent
- Phase Contrast (DIC)

Provides Multiple Types of Compensators

A variety of optical compensators are available in NP900 that enhance the signal of weak birefringent materials, making them easier to see. At the same time, the compensator can also be used for qualitative measurements to determine multiple horizontal delays.



Calcite



Coral

Excellent Optical Quality and Strong Stability

Kohler Illumination System with Uniform Illumination

Kohler illumination is praised as the perfect micro-illumination system, which can provide uniform and bright lighting of the full field of view, and is the key of digital microscopic imaging. On this basis, the standard lighting for halogen lamps (optional LED lighting) makes the microscopic imaging more realistic and the results are highly repeatable.

Strain-free Optics Make Imaging More Accurate

With the deepening of the study of polarized light, the accuracy and repeatability of the data are increasingly required. Objective lens and condenser lens, as important components of the microscope, play a vital role in the imaging effect. As a polarizing microscope, not only does it require high resolution, but also a stress-free optical component, which ensures that the observed birefringence is from the sample and not from the optical element.

Powerful and Applicable to the Variety of Research

Center Adjustable Quintuple Nosepiece

Up to five objectives can be mounted and all objectives positions are centerable. The nosepiece can be equipped with 6 objectives with different magnification rates to obtain abundant sample information.

High-precision Revolving Round Stage

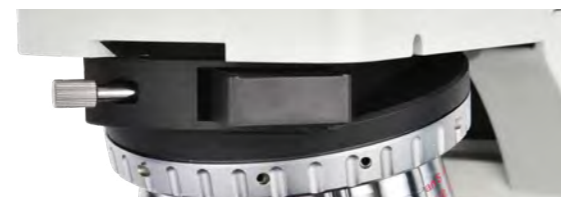
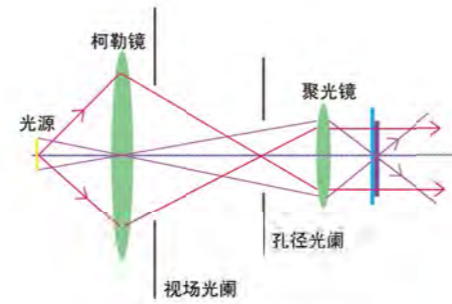
The NP900 stage is large, pre-adjusted, and click-stops in 45° increments. The double-layer mechanical attachable stage can be easily mounted on a rotating carrier table, allowing easier sample movement and more efficient microscopic operation.

Intermediate Tube

The intermediate tube incorporates a Bertrand lens as standard, enabling both the observation and capture of conoscopic and orthoscopic images. Precisely and quickly interference images adjustment. The high precision slide-type analyzer can be rotated a full 360° with a precision vernier scale and provides unparalleled image contrast.

Compensator Slot

The NP900 adopts a standard compensator slot. Therefore, various compensators can be used to enhance the advanced quantitative measurement of the signal of the weak birefringent material.



Great Operability and High Comfort

Seidentopf Trinocular Viewing Head

The adjustable viewing head can be operated in a more comfortable position. Minimize muscle tension and discomfort associated with working long hours.



Rotary Observation Module Conversion Device

Up to 6 observation modules can be placed in the rotating disc structure, while providing full extension capacity can be quickly switched. Easy to use and improve work efficiency with just one touch.



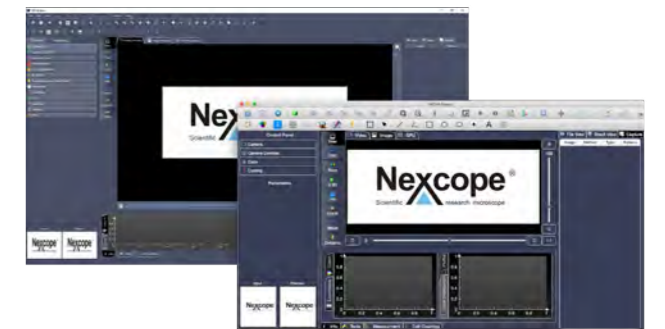
ECO Function

The transmitted light would be off automatically after 30 minutes from operators leave. It can not only save energy, but also keep the lamp life.

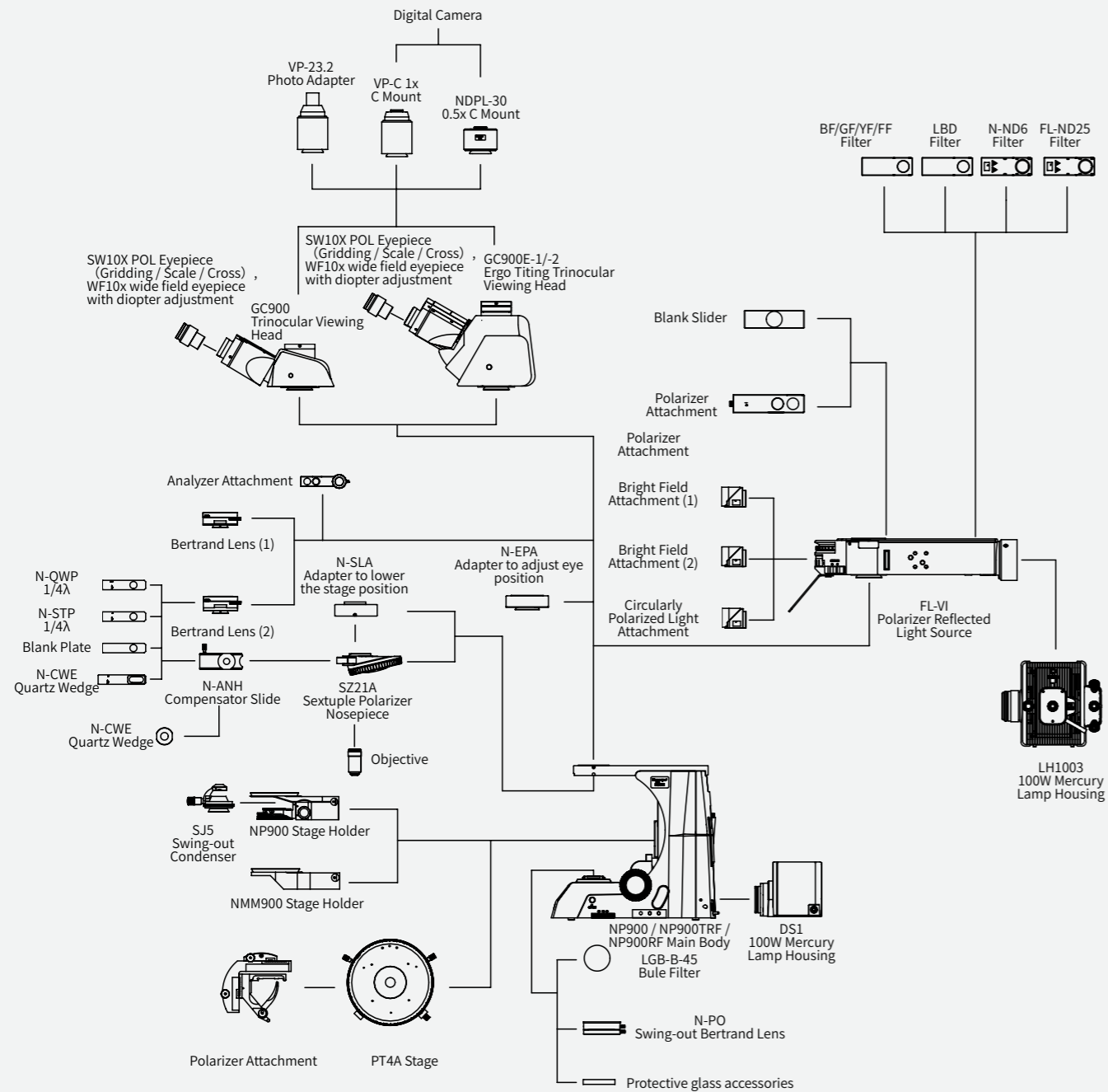


Image Analysis System

Today, the research work environment requires instruments that can be adapted to each person's different workflow. NOVA Basic can also serve as an observation instrument for today's popular operating systems. NOVA Basic microscopic image analysis software allows seamless integration between acquisition, processing, measurement and microscope.



系统配置图 SYSTEM LAYOUT



NP900 Polarizing Microscope

	NP900RF	NP900TRF	NP900
Optical System	NIS60 Infinte Plan Semi-Apochromatic Optical System		
Eyepiece	·SW10x/25 ·SW10x/25 with Scale of Cross Hair and Locating Pin ·SW10x/25 with Cross Hair and Locating Pin ·SW10x/25 with Grid Plate and Locating Pin		
Viewing Head	Adjustable Trinocular Head Inclined at 0~35° ,Interpupillary 47-78mm		
	Seidentopf Trinocular Head Inclined at 30° ,Interpupillary 47-78mm		
Objectives	NIS60 Strain-Free Plan Semi-Achromatic Objectives		
Nosepiece	Sextuple Nosepiece with DIC Slot		
Condenser	-	Strain-Free Swing Condenser NA0.9/0.25	
Illumination	Transmitted light	Kohler Illumination,12V/100W Halogen lamp	
	Reflected light	Kohler Illumination,12V/100W Halogen lamp	
Focusing	Coaxial Coarse & Fine Adjustment,Fine Stroke 1um Coarse Stroke 35mm,Sample Space 50mm		
Revolving Round Stage	High-precision Revolving Round Stage,Diameter φ190mm,Center Adjustable,360° Scale and Minium Division 1° ,Minium reading 6´ by Means of Vernier Scale,45° Click Stop Knob		
Attachable Stage	Moving Range 30mmX30mm		
Analyzer	360° Dial Rotation Minimum Scale Reading: 0.1°(Vernier Scale)		
Conoscopic observation	Switch between Orthoscopic and Conoscopic Observation,Bertrand Lens Position Adjustable		
Optical Compensator	First-order Red Plate,Quarter-wave Plate,Quartz Wedge		
Plarizer	Transmitted	Transmitted:360° Rotatable 0° Position Adjustable	
	Reflected	Fixed	
Attachment	Video Attachment		
	0.01mm Micrometer		
	Filters of Various Specifications		

DIMENSION FIGURE

Unit: mm

