

NSZ818 Research Steeo Microscope		
	Manual NSZ818	Motorized NSZ818M
Optical system	APO Parallel optical zoom system	
Zoom body	1:18 manual knob	
	0.75X-13.5X	
Eyepiece(FOV mm)	10X(22mm)	
Objective	Plan APO 1X NA0.15	
Viewing Head	<u>Trioncular head</u> , inclined at 20°, Interpupillary distance 55-57mm, ration 100/0, 100/0, switching mode: knob	
	<u>Tilttable Trioncular head</u> , 0 - 30°, Interpupillary distance 55-57mm, ration 100/0, 100/0, switching mode: rod	
Working Distance	60mm	
Focusing System	Manual focusing sustem	Motorized focusing sustem
Moving range	99mm	110mm
Base	LED transmitted illumination OIC oblique coherent illumination prismatic lens (reduce the shadow)	
Motorized part	--	Zoom, focusing, light source controll and others
Optional	Coaxial illumination, fluorescence attachment	



NSZ818

RESEARCH APOCHROMATISM PARALLEL-OPTICS STEREO MICROSCOPE

The Nexcope NSZ818 scientific grade parallel optical stereomicroscope has a zoom ratio of up to 1:18, a high numerical aperture (NA) provides excellent image resolution, and the parallel optical system improves the flexibility and applicability of the stereomicroscope. Various structural improvements, ergonomic design, to provide excellent user experience. This stereo microscope provides an excellent solution for cutting-edge life science research and industrial measurement observation.

Achieve a seamless connection from macro to micro

With a zoom ratio of 1:18, the NSZ818 can achieve a zoom range of 0.75X -13.5X.

Multiple viewing modes

Bright field, dark field, fluorescence, OIC, coaxial lighting, etc.

Ensure imaging accuracy and reliability

The newly developed optical system and high-performance objective lens, which fully corrects the color difference, make it have high color reproduction degree, and can display bright and brilliant images.



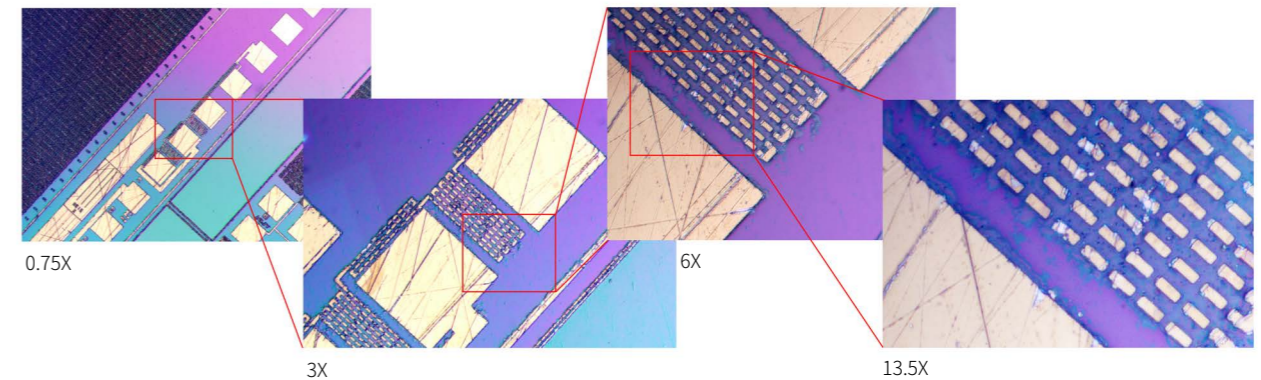
Achieve a seamless connection from macro to micro



The NSZ818 optical system adopts multi-coated high-performance optical lenses, 0.75X-13.5X variable magnification objective and newly designed 1X PLAN APO, with a zoom ratio of 1:18, and can achieve a zoom range of 7.5X-135X under 10X eyepieces. It allows you to make high-quality overall observations at low magnification and zoom in quickly for micrometer level detail.

1:18 continuous zoom ratio

0.75X-13.5X magnification objective lens, zoom ratio of 1:18, no need to exchange the objective lens can be observed at one time the whole and fine parts of the sample.



Observe high, thick and irregular samples to avoid collisions

Industrial samples, such as circuit boards, are often uneven and very heavy, NSZ818 in the case of ensuring high magnification, to ensure the 60mm working distance, compared with the traditional microscope greatly increased the distance between the sample and the lens, reduce the collision during observation, both to protect the microscope, but also to protect the sample.

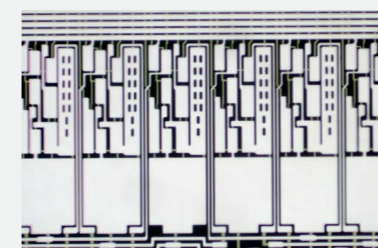


Plan APO

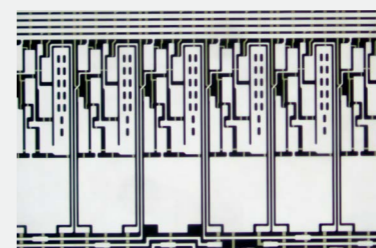
The newly designed 1X PLAN APO large objective lens brings excellent resolution and chromatic aberration correction capabilities, more realistic imaging, high NA, resolution up to 1000LP/mm.



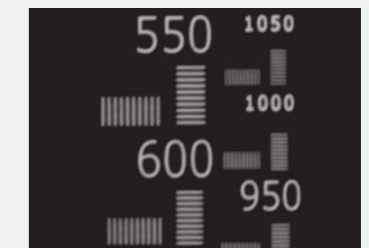
Plan achromatic objective lens



Newly plan apochromatic objective



NA0.15, resolution up to 1000LP/mm



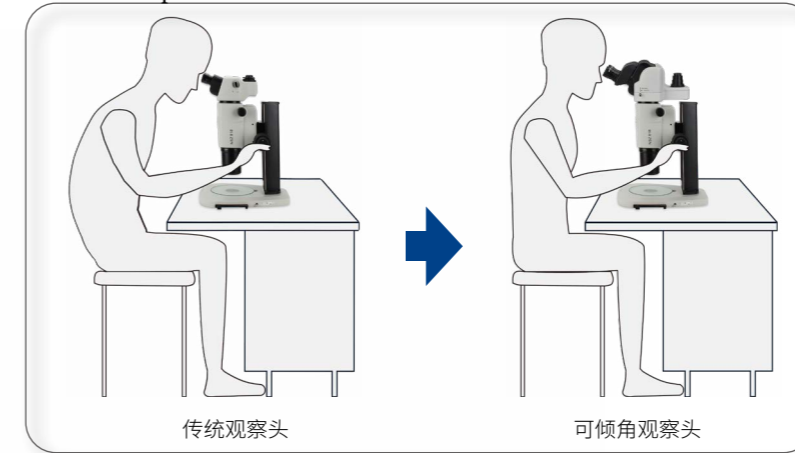
Create a comfortable and efficient workflow

You can control a variety of motor components of the microscope through the control box, such as focusing, zoom, light emphasis, etc., quickly and easily operate this scientific stereo microscope, greatly increasing your work efficiency. On the basis of ensuring excellent optical performance and exquisite ergonomic design, a variety of convenient and humanized designs are added to make microscopic observation more comfortable and microscope observation work easier



Tilt viewing head

The trinocular viewing head can realize the adjustment of interpupillary distance and diopter, and the baseline eye height can be increased by 47mm. Optional tilt trinocular viewing head, tilt range 0-30°, so that you can observe in the most natural and comfortable position.



Convenient motorized control

Multifunctional controller to achieve a variety of motorized control functions, Z-axis focusing, power switching, light intensity control, fluorescence filter block switching (in design), automatic focusing (in design) and other functions, so that the operation process is more convenient, LCD display provides microscope information, at a glance. There are more humanized Settings such as focusing speed adjustment, magnification switching speed adjustment, Z-axis limit, sample replacement lifting function, etc., to adapt to the use of different operators.



Motorized focus



Motorized brightness adjust

Supports diversified function expansion

Eyepiece

A variety of magnification eyepieces are available, all with adjustable visibility, ensuring clear eyepiece imaging for all users.



Viewing Head

Two ergonomic viewing heads are available, the conventional viewing head interpupillary distance adjustable, and the tilt viewing head can be adjusted 0-30°. Both viewing heads can be connected to the camera through the C mount for digital observation.



Motorized Parts

Can achieve a variety of motorized control functions, LCD display provides microscope information, operation at a glance, more user-friendly Settings, adapt to the use of different operators habits.



Fiber optic illumination

The flexible fiber arms can be adjusted according to the observation needs, changing the lighting direction and Angle, presenting the best imaging contrast and effect.



OIC Illumination

The built-in OIC lighting device in the base, can slide the operating lever on the side to change the lower lighting to oblique lighting, enhancing the contrast of the colorless, transparent sample surface.



Incident Fluorescent

With long-life, high-brightness LED fluorescent lighting, the compound eye lens guarantees uniform illumination even in the low power field of view, high transmittance, high end depth, and high gradient color filters for excellent signal-to-noise ratio and clear fluorescent images.



Coaxial illumination

Provides more uniform illumination than traditional light sources, suitable for the surface scattering phenomenon is strong, or thicker and surface texture of the sample, to obtain stronger image contrast and clarity



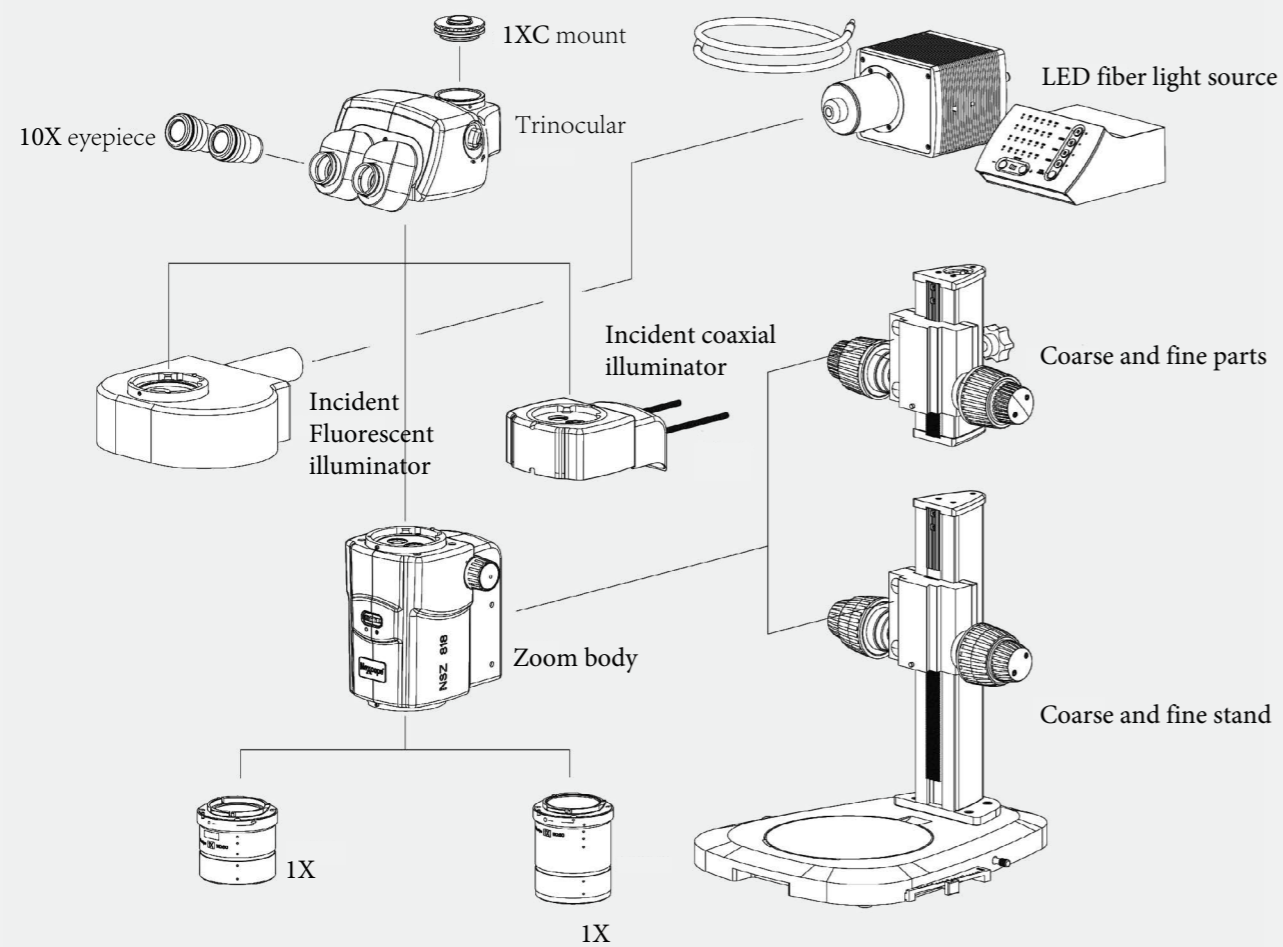
Ring LED Illumination

High brightness LED illuminator, service life of up to 10,000 hours, light intensity can be adjusted, cost-effective preferred. Can be used for edge detection, suitable for small uneven surface defect detection.



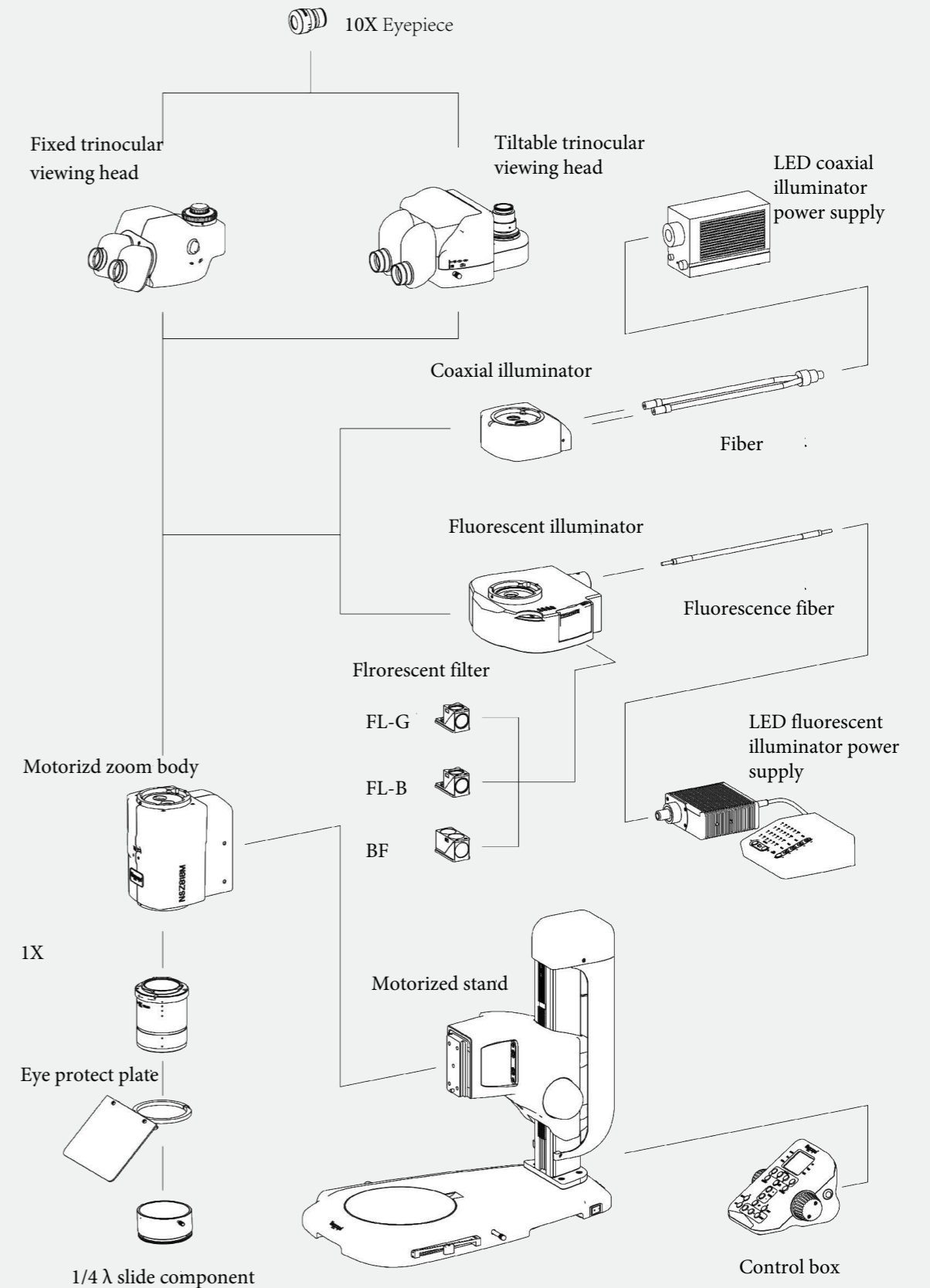
System diagram

For manual NSZ818



System diagram

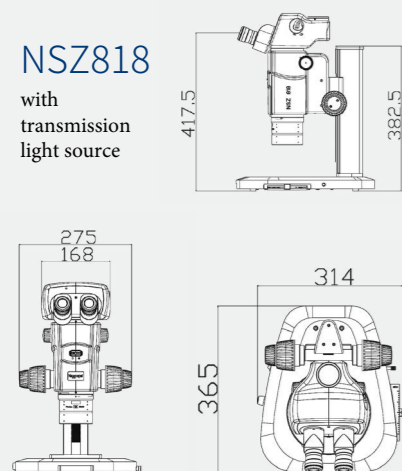
For motorized NSZ818M



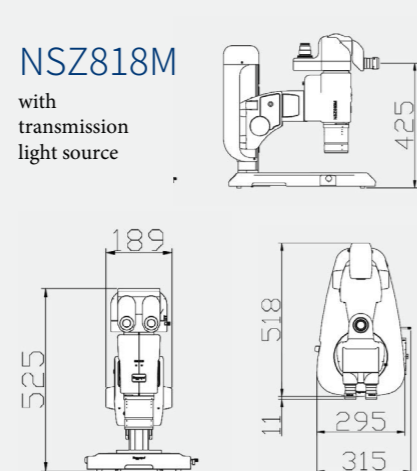
Dimension

Unit: mm

NSZ818
with transmission light source



NSZ818M
with transmission light source



NSZ818M
with fluorescent lighting system and coaxial lighting system

