

JNOEC

XSP-XY MICROSCOPE



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COLOUR CORRECTED INFINITY OPTICAL SYSTEM

The IOS optics allow new accessories and functions to be incorporated into the XSP-XY biological microscope.

The XSP-XY, which combines IOS optics with innovative mechanical design, provides unrivalled versatility, ergonomics and optical excellence. The IOS infinity design has succeeded in achieving longer working distance objectives with higher numerical aperture. This represents a significant development in optical performance and versatility.



Microscope Stand

The design of the XY microscope optimally integrates all functions enabling effective ergonomics and maximum expandability.

The wide arm provides strength and rigidity. Additionally, the inverted "Y" support in the back of the microscope provides extra lateral stability.

Ergonomic design has made the XSP-XY compatible with the manner in which you work. The location of focusing controls for the stage and light intensity are placed conveniently at your fingertips to minimize fatigue. The ideally positioned low profile fine focus knob and stage controls make the manipulation of both stress free.

Light Source

The 6V-30W halogen Koehler illumination system provides bright, even illumination at any magnification. The "only one in its class" centerable lamp is housed externally and has an externally operated mechanism for control of all facets of illumination. A diffuser is housed in the base of the microscope. The diffuser can be easily removed from the light path by turning the engage/disengage lever.

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VIEWING HEAD & EYEPIECE

In order to maintain parfocality, the XSP-XY Siedentopf eyepiece tubes will not change their length when interpupillary distance adjustments are made. An inclination angle of 30° for both the binocular tubes is utilized for comfort and posture management.

A field of view of 22mm has now been adopted as the standard for 10X eyepieces. This enlarged field provides for faster scanning and easier viewing.



REVOLVING NOSEPIECE

The revolving reversed nosepiece accepts five objectives. It runs on ball bearings and has internal click stops so that the image remains centered after each change in magnification.

OBJECTIVES

JNOEC infinity objectives have succeeded in achieving longer working distances with higher numerical aperture while significantly improving optical performance and versatility.

Objectives	Types	Numerical Aperture	Working Distance
IOS Plan Achromat Objectives	PL4X	0.10	9
	PL10X	0.25	5
	PL20X	0.40	1.75
	PL40X	0.65	0.6
IOS Plan Achromat Phase Objectives	PL Ph10X	0.25	5
	PL Ph20X	0.40	1.5
	PL Ph40X	0.65	0.6
	PL Ph100X	1.25	0.2



MECHANICAL STAGE

A hard coating protects the stage surface from abrasion and wear. The 175 x 145mm stage incorporates a ball bearing mechanism and is available with its coaxial mechanical controls on either the right or left hand side. Its cross travel motion is 75 x 50mm and the vernier scale can be read to 0.1mm. The user can set the upper stage drive limit with the coarse focus stopper, to prevent damage to objectives or specimen. A user adjustable torque control for the X and Y movement is provided.

The stage can be rotated for composition in photomicrography.

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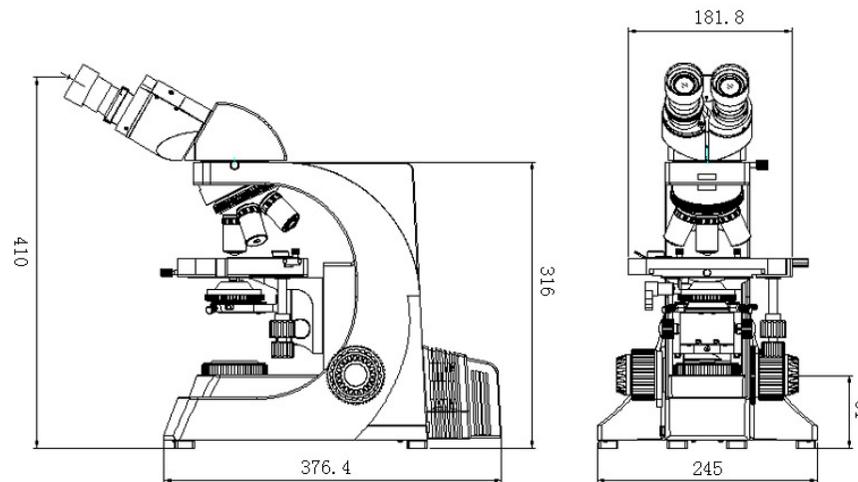
Condenser

The substage condenser mount is height adjustable with rack and pinion movement and has a dovetail mount with a clamp screw.

The newly developed swing-out Achromat condenser with numerical aperture of 0.90, provides homogeneous illumination for observation and photomicrography at all magnifications from 2X to 100X.

The Phase Contrast Condenser turret condenser with numerical aperture of 1.25, has four phase positions (10X, 20X, 40X and 100X) and a brightfield position with iris diaphragm. This condenser is particularly convenient for studies in which rapid change between illumination techniques is required.

Dimensions



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Optional accessories

Phase contrast kits



Fluorescent kits



Dry darkfield condenser NA0.9

Oil darkfield condenser NA1.25



Polarizing kits



Digital Camera Adaptor