

XSZ-146 BIOLOGICAL MICROSCOPE

CLINICAL SCIENCE BIOLOGY

A High Performance Laboratory Microscope for routine work designed specially to enhance operational convenience by combining innovative design and high performance optics.



Eyeiece: High eye point WF10x eyepieces with 18mm field of view, WF10X (FOV 20 mm) eyepiece is also available.

Head: Sidentopf Binocular or Trinocular Head, inclined at 30°, Rotatable 360°, Interpupillary distance: 55mm-75mm, Diopter adjustment is available.

Stand: The design of the XSZ-146 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 XSZ-146 compatible with the manner in which you work. The location of focusing controls for the stage and light intensity are placed conveniently to minimize fatigue. The ideally positioned low profile fine focus knob and stage controls make the manipulation of both stress free.

Nosepiece: Quadruple, ball bearing nosepiece with positive click stops to ensure parcentration.

Objective: DIN standard achromatic, semi-plan or plan, parcenter 4x (N.A.0.10), 10x (N.A.0.20), 40x (N.A.0.65), 100x (N.A.1.25) oil immersion.

Stage: Professional double-plate mechanical stage (135mmX153mm) with vernier scales to provide accurate specimen location. Travel area 80mmX50mm, with a low position control.

Substage: Centerable N.A.1.25 Abbe condenser with iris diaphragm and filter holder, incorporates a high efficiency optical system with aspheric lens for optimum utilization of light resulting in bright and even illumination from low to high magnification objectives.

Focusing: Coaxial coarse and fine focus mechanism facilitates smooth, precise focusing.

Illumination: High-intensity variable 6 volt 20 watt halogen illuminator.

Anti Mold: Optical surfaces in the viewing head & objectives are protected with an anti-mold system to ensure proper performance in unusually hot and humid environments.

The objectives

Objectives	Types	Numerical Aperture	Working Distance
Achromat Objectives	4X	0.10	37.5
	10X	0.25	6.544
	20X(S)	0.40	1.00
	40X(S)	0.65	0.65
	60X(S)	0.85	0.185
	100X(S)	1.25	0.198
Semi-Plan Achromat Objectives	4X	0.10	17.912
	10X	0.25	2.043
	40X(S)	0.65	0.6
	100X(S)	1.25	0.15
Plan Achromat Objectives	4X	0.10	17.912
	10X	0.25	2.043
	20X(S)	0.40	1.20
	40X(S)	0.65	0.65
	60X(S)	0.85	0.18
	100X(S)	1.25	0.16

XSZ-146 Series Biological Microscope

	Description	B	BS	BP	T	TS	TP
Viewing Head	Sidentopf Binocular Head (30Y, Inclined)	○	○	○			
	Sidentopf Trinocular Head (30Y, Inclined)				○	○	○
Eyepiece	WF5X/20 Eyepiece						
	WF10X/18 Eyepiece	○	○	○	○	○	○
	WF10X/20 Eyepiece						
	WF15X/13 Eyepiece						
Nosepiece	Outward quadruple nosepiece	○	○	○	○	○	○
	Outward quintuple nosepiece						
Objectives (DIN System)	Achromatic 4X, 10X, 40X(S), 100X(S)	○			○		
	Achromatic 20X(S) N.A.0.4						
	Achromatic 60X(S) N.A.0.85						
	Semi-Plan 4X, 10X, 40X(S), 100X(S)		○			○	
	Plan Achromatic 4X, 10X, 40X(S), 100X(S)			○			○
	Plan Achromatic 20X(S) N.A.0.4						
	Plan Achromatic 60X(S) N.A.0.85						
Stage	135X153mm Mechanical Stage Moving Range: 80X50mm	○	○	○	○	○	○
Condenser	N.A. 1.25 Abbe Condenser	○	○		○	○	
	Swing-out Achromat condenser with numerical aperture of 1.25/0.2			○			○
Collector	Collector	○	○		○	○	
	Collector with Field Diaphragm			○			○
Focusing	Coaxial coarse and fine focusing controls Fine focus: 0.2mm per rotation	○	○	○	○	○	○
Illumination	6V20W Halogen lamp	○	○	○	○	○	○
	12V/30W Halogen lamp						
Filter	Blue, Yellow, Green filter	○	○	○	○	○	○
	Filter without color						
Packing	Styrofoam box and carton	○	○	○	○	○	○
	Metal case and carton						

Main Accessories

WF5X/20, WF10X/18, WF10X/20, WF15X/13, WF20X/11 eyepiece

Achromatic 4X, 10X, 20X, 40X, 60X, 100X objective

Semi-Plan Achromatic 4X, 10X, 40X, 100X objective

Plan Achromatic 4X, 10X, 20X, 40X, 60X, 100X objective

Video Adapter with C Mount

Digital Camera Adapter

Simple Polarization Set

Dark Field Condenser N.A.=0.9Dry, N.A.=1.25Oil

Turret Phase Contrast Kit

Plan-Achromatic Phase Contrast Objective

PH10X, PH20X(S), PH40X(S), PH100X(S, Oil),

Turret Annular Phase Contrast Condenser,

Centering Telescope, Green Filter

Epi-Fluorescent attachment

The epi-fluorescent attachment can be flexibly equipped with XSZ-146 microscope to be an epi-fluorescent microscope. It is suited for fluorescent microscopy and widely used in venereal disease examination and immune less diagnosis. Epi-Fluorescent Illumination: B (Blue), G (Green) Exciting Light Filter System O Ordinary Light System, 100 WHBO Ultra Hi-voltage Spherical Mercury Lamp

