

XPL-1



XPL-1 series polarization microscopes

XPL-1 series polarization microscopes are utilized polarize light to observe and research the matter which has double refraction features, the user can make single polarizing view, orthogonal polarizing view, cone light view. They are applied in geology, chemicals, physic and leechdom fields. They are also widely used to observe the crystal of liquid macromolecule polymer, biomedical polymer, and liquid crystal. They are the ideal instruments for scientific research and universities teaching demo.

Features:

- * Equipped with strain-free plan achromatic objectives or infinity strain-free plan achromatic objectives and wide field eyepiece.
- * Nosepiece can adjust the center of the objective.
- * Coaxial coarse/fine focus system with tensional adjustable and up stop, minimum division of fine focusing: $2\mu\text{m}$
- * Take-down style polarizer, 360° rotatable, have 0,90,180,270 four scales, located down the aperture diaphragm
- * Impellent style analyzer, 360° rotatable, push in / out from optical path conveniently
- * Revolving round stage, 360° part scale and graduated in 1° increments, minimum resolution $6'$ when using vernier scale,
center adjustable and with tightener.
- * Illumination with 6V20W halogen lamp, adjustable brightness

Standard configuration

Model	XPL-1	XPL-1A
Eyepiece	Wide field WF10X($\text{\O}18\text{mm}$)	
	Division eyepiece 10X($\text{\O}18\text{mm}$) 0.1mm/Div	
Objective	Strain-free plan achromatic PL 4X/0.10	Infinity strain-free plan achromatic PL 4X/0.10
	Strain-free plan achromatic PL 10X/0.25	Infinity strain-free plan achromatic PL 10X/0.25
	Strain-free plan achromatic PL 40X/0.65(Spring)	Infinity strain-free plan achromatic PL 40X/0.65(Spring)

	Strain-free plan achromatic PL 100X/1.25(Spring, oil)	Infinity strain-free plan achromatic PL 100X/1.25(Spring, oil)
Eyepieces tube	Trinocular, inclination of 30°, 100% image light for photography capable	
Intermediate attachment	360° rotatable with scale and minimum vernier	
	Bertrand lens, impellent style, center adjustable	
	λ Compensator	
	$\lambda/4$ Compensator	
	Quarts wedge compensator	
Focus system	Coaxial coarse/fine focus system, with tension adjustable and limit stopper, minimum division of fine focusing: 2 μ m.	
Nosepiece	Quadruple (Frontward ball bearing inner locating)	
Stage	Rotatable stage, Diameter \varnothing 150mm, 360° graduated (in 1° increments), minimum retardation resolution 6' center adjustable and with tightener	
Abbe condenser	NA.1.25 Rack & pinion adjustable	
Polarizer	360° rotatable, with four scales, is 0°, 90°, 180°, 270°	
Filter	Frosted filter	
	Blue filter	
Collector	For illumination with halogen lamp (With field diaphragm)	
Illumination unit	With polarizer, 6V 20w, halogen lamp, adjustable brightness	

Optional accessories

Name	Sort/Technique parameter	NO.
Eyepiece	Wide field WF16X(\varnothing 11mm)	1051016
Eyepieces tube	Binocular, Inclination of 30°	11009
Objective	Strain-free plan achromatic PL 5X/0.12	2810105
	Strain-free plan achromatic PL 20X/0.40	2810120
	Strain-free plan achromatic PL 60X/0.85 (Spring)	2810160
	Infinity strain-free plan achromatic PL 4X/0.10	2820104
	Infinity strain-free plan achromatic PL 20X/0.40	2820120
Nosepiece	Quintuple(Frontward ball bearing inner locating)	32004
Filter	Green filter	115002
	Yellow filter	115003
CCD adapter	0.4X	810001
	0.5X	810004
	1X	810002
	0.5X with dividing 0.1mm/Div	810003
Camera	DV-1 With USB & video output	800001
	DV-2 With USB output	800003
	DV-3 With video output	800005
Photo unit	2.5X/4X Change over photograph attachment with 10X viewing eyepiece	840001
	4X Focusing photograph attachment	840002
	MD Adapter	840003
	PK Adapter	840004
Digital camera adapter	CANON(A610,A620,A630,A640)	820001