

XPL-1/XPL-2



- XPL-1/XPL-2 series polarizing microscope are applied to differentiate components of matters that have birefringent characteristics, as a sort of important tool in pharmacology, geology, mechanics, metallurgy to research crystal, mineral, rock and metallurgical forms. The instruments are equipped with strain-free plan achromatic objectives and wide field eyepieces, high precision rotatable polarizing stage and excellent accessories. They can be applied in single polarizing, orthogonal, conoscopic. These products have good sculpt and steady mechanical structure, so that they operate comfortably and expediently. They are the ideal instruments for factory, mine, scientific research and university to check, research and teaching etc.



Observation System

Trinocular, single diopter adjustment, inclined 30° , can be connected to the camera.

10X wide field plan eyepiece, field $\Phi 18\text{mm}$, can provide expansive and smooth observation space.

Another eyepiece is 10X division eyepiece used for proofreading the centre.



The intermediate attachment includes the impellent style of analyzer (360° rotatable with scale and fine nonius) which can be taken off from the light path and the impellent style of bertrand lens (center adjustable). It can be added λ compensator, $\lambda/4$ compensator or quartz wedge compensator.



Quadruple:

frontward ball bearing inner locating, center adjustable, can ensure the centre of objective and the rotatable stage completeness superposition.

Objective:

strain-free plan achromatic objective or infinity strain-free plan.

Stage

Rotund rotatable stage, $\Phi 150\text{mm}$ diameter, 360° graduated (in 1° increments), minimum retardation resolution $6''$, center adjustable and with tightener.



Polarizer

Polarizer, 360° rotatable, having 0, 90, 180, 270 four scale, set under the aperture diaphragm, can take down from the optics body.



Illumination System

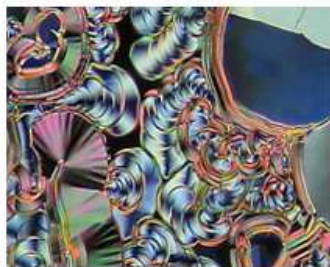
The illumination system with 6V 20W halogen lamp (brightness adjustable) can provide clear and bright image. The system also includes the collector with field diaphragm.



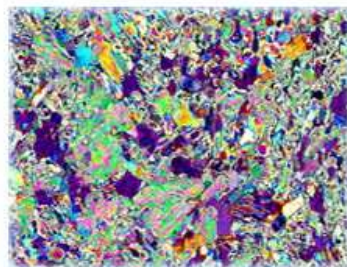
Function spread

By adding the appurtenance such as CCD adapter, digital camera adapter and single-reverse digital camera adapter etc. It can achieve high clear observation mode of camera and vidicon.

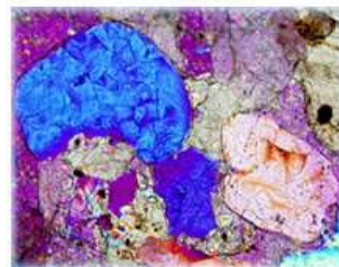
Digital camera photography:



Polarized observe



Polarized observe



Polarized observe

Specification

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Model	XPL-1 (Cover glass thickness : 0.17)		XPL-2 (No Cover glass)
Eyepiece	Wide field WF10X (field number: Φ 18mm)		
	Dividing eyepiece 10X (field number: Φ 18mm) 0.10mm/Div		
Strain-free plan achromatic objective	PL 4X/0.10 POL W.D : 17.94mm		PL L4X/0.12 POL W.D : 17.9 mm
	PL 10X/0.25 POL W.D : 8.8 mm		PL L10X/0.25 POL W.D : 8.8 mm
	PL 40X/0.65 POL (spring) W.D : 0.56 mm		PL L40X/0.60 POL (spring) W.D : 3.73 mm
	PL 100X/1.25 POL (spring, oil) W.D : 0.36 mm		PL L60X/0.70 POL (spring) W.D : 1.34 mm
Transmitted illuminating system	6V20W halogen lamp, brightness adjustable 6V20W		
	Rotatable 360°have 0,90,180,270 scale		
	Abbe condenser N.A.1.25 with iris diaphragm		
Stage	Rotatable stage,diameter Φ 150mm,360°graduated(in 1°increments),minimum vernier division:6',center adjustable and with tightener.		
Nosepiece	Quadruple (the center of objective is adjustable)		
Intermediate attachment	Integrated analyzer, can be switched to normal or polarizing observe freely, enable 0~90° rotated and minimum vernier division:12'		
	Piller Bertrand lens and center adjustable		
	λ , $\lambda/4$ and quartz wedge compensator		
Eyepiece tube	Trinocular inclined 30°and enable to shoot in 100% light flux		
Focus system	Coaxial coarse/fine focus with tension adjustable and up stop device, minimum division of fine focusing:2 μ m		
Optional Accessory	Objective	Cover thickness:0.17	No cover glass
		20X、 60X	20X、 50X、 80X、 100X (Dry)
	Slide movingholder	Moving range : 30mm \times 25mm	
	CCD adapter	0.5X、 1X、 0.5X with dividing	
	Camera	USB output : 1.3M/3.0M/5.0M/10.0 M pixel	
		VIDEO output : 380/520 TV line	
Digital cameraadapter	CANON (EF) NIKON (F)		
Infinity optical system (Model : XPL-1A/XPL-2A)			

