POLARIZING MICROSCOPES

XP-607LP



XP-607LP Transmission & Reflection polarizing microscope is a professional laboratory instrument which is the most commonly sued in geology, minerals, material, etc departments, and relative Universities and colleges. For non-transparent or translucent objects, you can adopt both transmission and reflection polarizing observation. With the advancing of optical technology, the application range of polarizing microscope is becoming wider and wider. They are widely used in minerals, chemical industry, semiconductor industry and medicine material testing and so on.

It provides users to do single-polarized light observation, orthogonal polarizing observation, cone-ray observation and microscopic photography. It can also configure attachment like test piece Gypsum 1λ, Mica 1/4λ, quartz wedge and mechanical stage. It is a good quality instrument with more maturity function.

	Specification	607LP	607LPT
Viewing Head	Compensation Free Binocular Head Inclined at 30° (50mm-75mm)		
Viewing Head	Compensation Free Trinocular Head Inclined at 30° (55mm-75mm)		*
Eyepiece	WF10X/22mm, Gridding Eyepiece, Cross Eyepiece, Reticule Eyepiece	*	*
Ohioativa	Stress-free infinity plan-achromatic metallurgical Objective: 4X 10X 20X 40X 60X	*	*
Objective	Stress-free Infinity Plan-achromatic Objective: 4X 10X 20X 40X 60X		
Stage	tage Rotary Stage, Stage Size:172mm, Moving Range:360°		*
Condenser	ndenser Swing type N.A.1.25 Abbe condenser with iris diaphragm		*
Filter Inserting type filter(green, blue, neutral)		*	*
Testing Piece	esting Piece Gypsum 1λ testing piece, Mica 1/4λ, Quartz wedge testing piece		*
Focusing Coaxial coarse & fine focusing adjustment With rack and pinion Mechanism Fine focusing scale value 0.002mm		*	*
Illuminator High brightness fixed illumination		*	*
Light Source	Upper illumination: Halogen bulb12V/30W,AC85V-230V, adjustable brightness		*
	Down illumination: Halogen bulb12V/30W,AC85V-230V, adjustable brightness	*	
Checking Tool	0.01mm Micrometer	*	*

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XPL-3230



XPL-3230 transmitted & reflected polarization microscopes are utilized polarize light to observe and research the matter which have double refraction features, the user can make single polarizing observation, orthoscopic observation, conescopic observation. 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:

- 1. Equipped with infinity plan objectives (strain-free) and wide field eyepiece
- Coaxial coarse/fine focus system with tensional adjustable and up stop, minimum division of fine focusing: 2µm 2.
- 3. Rotatable stage, 360° graduated in 1° increments, minimum retardation resolution 6' center adjustable and with tightener, Stage vertical effective movement up to 30mm
- Wide voltage range power supply (85-265V 47-60HZ), 6V30W halogen lamp, brightness adjustable

Standard Configuration:

Mo	del	XPL-3230			
Eyepiece		Wide field WF10X /20mm, Division eyepiece 10X /20mm 0.10mm/div			
Infinity objective		Strain-free plan achromatic objective (no cover glass) PL5X/0.12, PL L10X/0.25, PL L40X/0.60(S), PL L60X/0.75 (S)			
Eyepiece tub	е	Trinocular, Inclination of 30°, can send 100% of the image light to top photography port			
Intermediate	attachmen	Built-in bertrand lens			
D - fl4 - 1	Polarizer	360° rotatable			
Reflected illumination	Analyzer	360° rotatable with scale and minimum vernier			
IIIuIIIIIatioii	Illumination	6V 30W, halogen lamp, adjustable brightness			
	Polarizer	360° rotatable, have 0, 90, 180, 270 four scale			
Transmitted	Collector	For halogen lamp illumination			
illumination	Illumination	6V 30W, halogen lamp, adjustable brightness			
	condenser	N.A.1.25 Abbe condenser, Rack & pinion adjustable			
Compensator	r	Acompensator, $\lambda/4$ compensator, Quarts wedge compensator			
Focus system		Coaxial coarse/fine focus, with tension adjustable and up stop, min. division of fine focusing: 2µm.			
Nosepiece		Quadruple(Backward ball bearing inner locating)			
Stage		Rotatable stage, Diameter Φ 150mm, 360° graduated (in 1° increments), minimum retardation resolution 6′ center adjustable and with tightener			

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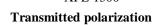


Optional accessories:

Name	Sort/Technique parameter		
Eyepiece	Wide field eyepiece WF16X/11mm		
Infinity chicative	Strain-free plan achromatic objective(no cover glass) PL L20X/0.40		
Infinity objective	Strain-free plan achromatic objective(no cover glass) PL L80X/0.80		
Nosepiece	Quintuple(Backward ball bearing inner locating)		
Slide moving holder	Moving range: 30mmX25mm		
CCD adapter	0.4X, 0.5X, 1X, 0.5X with dividing 0.1mm/Div		
Digital camera adapter	CANON (A610, A620, A630, A640)		
	2.5X/4X Change over photograph attachment with 10X viewing eyepiece		
	4X Focusing photograph attachment		
Photograph unit	MD Adapter		
	PK Adapter		
	EF Adapter		

XPL-1500 SERIES







XPL-1530



XPL-1503

Reflected & Transmitted poolarization Reflected polarization

XPL-1500 series transmitted and reflected polarization microscopes are utilized polarize light to observe and research the matter which have double refraction features, the user can make single polarizing observation, orthoscopic observation, conescopic observation. 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:

- 1. Transmitted, Reflected, transmitted/reflected illumination can be choosn
- 2. Equipped with strain-free plan objectives (center adjustable) and wide field eyepiece
- 3. Coaxial coarse/fine focus system with tensional adjustable and up stop, minimum division of fine focusing: 2µm
- 4. Rotatable stage, 360° graduated in 1° increments, minimum retardation resolution 6′ center adjustable and with tightener Stage vertical effective movement up to 30mm
- 5. Wide voltage range power supply (85-265V 47-60HZ), 6V20W halogen lamp, brightness adjustable

Optional accessories:

Name	Sort/Technique parameter		
Eyepiece	Wide field WF16X/11mm		
Objective	Strain-free plan achromatic objective(cover glass:0.17mm) PL20X/0.40, PL 00X/1.25 (Oil ,S)		
(center adjustable)	Strain-free plan achromatic objective(no cover glass) PL L20X/0.40, PL L50X/0.70, PL L80X/0.80		
(center adjustable)	Strain-free plan achromatic objective (Dry) (no cover glass) PL L100X/0.85 (S)		
Nosepiece	Quadruple (Frontward ball bearing inner locating) adjust the center of objective		
Slide moving holder	Moving range: 30mmX25mm		
CCD adapter	0.4X, 0.5X, 1X, 0.5X with dividing 0.1 mm/Div		
	2.5X/4X Change over photograph attachment with 10X viewing eyepiece		
Photo unit	4X Focusing photograph attachment		
rnoto unit	MD Adapter		
	PK Adapter		
Digital camera adapter	CANON (A610, A620, A630, A640)		



Standard Configuration:

Model		XPL-1500 (Transmitted	XPL-1530 (Transmitted &	XPL-1503 (Reflected	
		illumination)	reflected illumination)	illumination)	
г ·		Wide field WF10X /18mm			
Eyepiece		Division eyepiece 10X /18mm 0.10mr	m/div		
		Strain-free plan achromatic objective	Strain-free plan achromatic object	tive (no cover glass)	
		(cover glass:0.17mm) PL4X/0.10	PL5X/0.12		
		Strain-free plan achromatic objective	Strain-free plan achromatic objective (no cover glass) PL		
		(cover glass:0.17mm)PL10X/0.25	L10X/0.25		
Objective		Strain-free plan achromatic	Strain-free plan achromatic object	tive (no cover glass)	
(center adjus	table)	objective(cover glass:0.17mm) PL	PL L40X/0.60 (S)	are (no cover grass)	
		40X/0.65 (S)	(2)		
		Strain-free plan achromatic	Strain-free plan achromatic objective (no cover gla		
		objective(cover glass:0.17mm) PL	PL L 60X/0.75 (S)	· · · · · · · · · · · · · · · · · · ·	
	L	60X/0.85 (S)			
1	Polarizer		Rotatable		
illumination			6V 20w, halogen lamp, adjustable	e brightness	
	Polarizer	360° rotatable, have 0, 90, 180, 270 fo	ur scale		
Transmitted		For halogen lamp illumination			
illumination		6V 20W, halogen lamp, adjustable bri			
		N.A.1.25 Abbe condenser, Rack & pir			
Eyepieces tu	be	Trinocular, Inclination of 30°, can send 100% of the image light to top photography port			
		Built-in analyzer, can switch to norma	• •	ely ,90° rotatable with	
		scale, minimum retardation resolution 12'			
Intermediate	attachment	Bertrand lens, impellent style, center adjustable			
		λ compensator			
		$\mathcal{V}4$ compensator			
		Quarts wedge compensator			
Nosepiece		Quadruple (Frontward ball bearing inner locating)			
Focus system		Coaxial coarse/fine focus system, with tension adjustable and limit stopper, minimum division of			
		fine focusing: 2µm			
Stage		Rotatable stage, Diameter Φ150mm, 360° graduated (in 1° increments), minimum retardation			
Stage		resolution 6' center adjustable and with tightener			

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XP-146P 501



Model XP-501 Transmission Polarizing microscope is one of the most professional instruments, in common use, for Geological, Mineral, Metallurgical departments and relative Academy.

Recent years, with the development of optical technology, the Polarizing microscope is in widely use. Transmission Polarizing microscope is a very suitable product. The user can make single polarizing view, orthogonal polarizing view, cone light view and micro-photograph. The microscope is equipped with attachment, such as $gypsum(\lambda),mica(1/4)$ test piece, quartz wedge and attachable mechanical stage. It is a novel microscope with maturity function and nicer quality

	501	501T	146P	
	Sliding binocular head. Inclined at 45° (52mm -74mm)	*		
Viewing head	Sliding trinocular head. Inclined at 30° (52mm -74mm)		*	
	Compensation free trinocular head. Inclined at 30° (52mm -74mm)			*
	WF10X /18mm	*	*	
	10X gridding eyepiece	*	*	*
Eyepiece	10X with reticule	*	*	*
	WF10X /22mm			*
Objective	Achromatic objective: 4X, 10X, 25X, 40X (S), 63X(S)	*	*	
	ISO infinity achromatic objective: 4X, 10X, 25X, 40X (S), 63X(S)			*
Stage	Round revolving stage, Stage dia: Φ160mm, Rotatable: 360°	*	*	*
Condenser	Swing type N.A1.25 Abbe condenser with iris diaphragm & filter	*	*	*
Focusing	Coaxial coarse & fine focusing adjustment with rack and pinion mechanism.	*	*	*
	Fine focusing scale Value 0.002mm			
Collector	High brightness light collector	*	*	*
Light source	Halogen tungsten bulb 6V/30W. AC 85V-230V, adjustable brightness	*	*	*

XP-148P SERIES



Transmission polarizing microscope is a professional laboratory instrument which is the most commonly used in geology, minerals, metallurgy, material, etc, departments, and relative Universities and colleges. In recent years, with the advancing of optical technology, the polarizing microscope, as optical instrument, is to be used wider and wider, Transmission polarizing microscope is very suitable product which provides users to do single-polarized light observation, orthogonal polarizing observation, cone-ray observation and microscopic photography. It can also configure attachment like test piece of gypsum 1λ .mica $1/4\lambda$, quartz wedge and mechanical stage, It is a high quality novel instrument with more maturity functions.

	Specification	148P	148PL	148PLT	148PH	146PHT
Viewing	Sliding trinocular head. Inclined at 30° (50mm-75mm)	*			*	
head	Compensation free binocular head Inclined at 30° (50mm-75mm)		*			
neau	Compensation free trinocular head. Inclined at 30° (50mm -75mm)			*		*
	WF10X /20mm		*	*		
E	10X gridding eyepiece	*	*	*	*	*
Eyepiece	10X with reticule	*	*	*	*	*
	WF10X /22mm	*			*	*
Nosepiece	Quintuple Nosepiece with centering adjustable	*	*	*	*	*
Objective	Achromatic objective: 4X, 10X, 25X, 40X (S), 63X(S)	*				
	Stress-free infinity achromatic objective: 4X, 10X, 25X, 40X (S), 63X(S)		*	*		
	Stress-free Infinity Plan Objectives: 4X, 10X, 25X, 40X (S), 60X(S)				*	*
Stage	Round revolving stage, Stage dia: Φ160mm, Rotatable: 360°	*				
	Round revolving stage, Stage dia: Φ172mm, Rotatable: 360°		*	*	*	*
Condenser	Swing type N.A1.25 Abbe condenser with iris diaphragm & filter		*	*	*	*
Testing Piece	Gypsum 1λ testing piece, Mica 1/4λ, Quartz wedge testing piece	*	*	*	*	*
Econoino	Coaxial coarse & fine focusing adjustment with rack and pinion mechanism.	*	*	*	*	*
Focusing	Fine focusing scale Value 0.002mm	-	*		*	
Illuminator	High brightness fixed illumination	*	*	*	*	*
Light source	Halogen tungsten bulb 6V/30W.AC 85V-230V, adjustable brightness	*	*	*	*	*
Checking Tool	0.01mm Micrometer	*	*	*	*	*

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YJ-2009



	SPECIFICATION			
Viewing bood	Articulated Free Binocular Head, Inclined at 30°, 360° Rotatable			
Viewing head	The Adjustable Height range of the Vertical Tube:10mm			
Eyepiece	Wide Field Plane-Scope Eyepiece: WF10X/18,WF16X/13			
Objective	Achromatic Objective 4X,10X,40X(S), 100X(S)Oil			
Objective	(or Infinity System Strain free Plane-scope Achromatic Objective 5X,10X,40X)			
	Double Layers Mechinical stage140X155mm, Moving range: 50X70mm			
Stage	Round Stage: $\Phi160$ mm. 360° Rotatable and Graduated 1° Increments, Minimum Resolution $6'$ When Using			
	Venire Scale Center Adjustabl			
Intermediate	Rotatable Analyzer with Graduation 0°- 90°, Sliding out of Optical Path			
attachment	Bertrand Lens,Sliding out of Optical Path			
attacimient	Optical Compensator: λSlip(first class red),1/4λSlip,Quartz Wedge Compensator			
Diaphragm	Φ2mm-Φ30mm iris diaphragm and Φ32mm filter			
Condenser	Abbe NA 1.25 condenser with Iris Diaphragm & Filter			
Polarizer	Under the Stage,0° Adjustable 360° Rotatable			
Focusing	Coaxial Coarse And Fine Focusing Adjustable Mechanism: 30mm, Precision: 0.002mm			
Power	Built-in Adjustable Brightness Halogen lamp 6V/20W (or 3.5V/1W LED Lamp), Kohler illumination			

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XPL-1 SERIES



XPL-1 series polarization microscopes are utilized polarize light to observe and research the matter which have 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:

- Equiped with strain-free plan achromatic objectives or infinity strain-free plan achromatic objectives and wide field
- 2. Nosepiece can adjust the center of objective
- 3. Coaxial coarse/fine focus system with tensional adjustable and up stop, minimum division of fine focusing: 2µm
- 4. Take-down style polarizer, 360° rotatable, have 0, 90, 180, 270 four scale, located down the aperture diaphragm
- Impellent style analyzer, 360° rotatable, push in / out from optical path conveniently 5.
- 6. 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

Optional accessories

Name	Sort/Technique parameter		
Eyepiece	Vide field WF16X/11mm		
Eyepieces tube	Binocular, Inclination of 30°		
Objective	Strain-free plan achromatic PL5X/0.12, PL20X/0.40, PL60X/0.85 (S)		
Objective	Infinity strain-free plan achromatic PL4X/0.10, PL20X/0.40		
Nosepiece	Quintuple(Frontward ball bearing inner locating)		
Filter	Green filter, Yellow filter		
CCD adapter	0.4X, 0.5X, 1X, 0.5X with dividing 0.1mm/Div		
	2.5X/4X Change over photograph attachment with 10X viewing eyepiece		
Photo unit	4X Focusing photograph attachment		
Photo unit	MD Adapter		
	PK Adapter		
Digital camera adapter	CANON(A610, A620, A630, A640)		

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Standard configuration:

Model	XPL-1A XPL-1A			
Evaniasa	Wide field WF10X/18mm			
Eyepiece	Division eyepiece 10X/18mm 0.1mm/Div			
	Strain-free plan achromatic PL 4X/0.10	Infinity strain-free plan achromatic PL4X/0.10		
01: .:	Strain-free plan achromatic PL 10X/0.25	Infinity strain-free plan achromatic PL10X/0.25		
Objective	Strain-free plan achromatic PL40X/0.65(S)	Infinity strain-free plan achromatic PL40X/0.65(S)		
	Strain-free plan achromatic PL100X/1.25(S, oil)	Infinity strain-free plan achromatic PL100X/1.25(S, oil)		
Eyepieces tube	Trinocular, ,inclination of 30°, 100% image light for photography capable			
Intermediate	360° rotatable with scale and minimum vernier			
attachment	Bertrand lens ,impellent style, center adjustable			
attaciiiicit	λ compensator, $\lambda/4$ compensator, Quarts wedge compensator			
Focus system	Coaxial coarse/fine focus system, with tension adjustable & up stopper, min. division of fine focusing: 2µm.			
Nosepiece	Quadruple (Frontward ball bearing inner locating)			
Stage	Rotatable stage, Diameter Φ150mm, 360° graduated (in 1° increments), minimum retardation resolution 6′ center adjustable and with tightener			
Condenser	NA.1.25 Abbe condenser, Rack & pinion adjustable			
Polarizer	360° rotatable, with four scale is 0°, 90°, 180°, 270°			
Filter	Frosted filter, Blue filter			
Collector	For illumination with halogen lamp (With field diaphragm)			
Illumination	With polarizer, 6V 20W halogen lamp, adjustable brightness			

XPL-2



XPL-2 series polarization microscopes are utilized polarize light to observe and research the matter which have 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.

Features:

- 1. Equipped with strain-free plan achromatic objectives(no cover glass) or infinity strain-free plan achromatic objectives (no cover glass) and wide field eyepiece
- 2. Nosepiece can adjust the center of objective
- 3. Coaxial coarse/fine focus system with tensional adjustable and up stop, minimum division of fine focusing: 2µm
- 4. Take-down style polarizer, 360° rotatable, have 0, 90, 180, 270 four scale, located down the aperture diaphragm
- 5. Impellent style analyzer, 360° rotatable, push in / out from optical path conveniently
- 6. Revolving round stage, 360° part scale and graduated in 1° increments, minimum resolution 6′ when using vernier scale, center adjustable and with tightener
- 7. Illumination with 6V20W halogen lamp, adjustable brightness

Standard configuration:

Model	XPL-2		
Eyepiece	Wide field WF10X/18mm, Division eyepiece 10X/18mm 0.1mm/Div		
Objective	Strain-free plan achromatic(no cover glass) PL L4X/0.10, PL L10X/0.25, PL L40X/0.60, PL L60X/0.75(S)		
Eyepiece tube	Trinocular, ,inclination of 30°, 100% image light for photography capable		
I	Polarization analyzer, 360° rotatable with scale and minimum vernier		
Intermediate attachmen	Bertrand lens, impellent style, center adjustable		
	λ compensator, $λ/4$ compensator, Quarts wedge compensator		
Focus system	Coaxial coarse/fine focus system, with tension adjustable and up stop, min division of fine focusing: 2µm		
Nosepiece	Quadruple (Frontward ball bearing inner locating)		
Stage	Rotatable stage, Diameter Φ150mm, 360° graduated (in 1° increments), minimum retardation resolution 6′ center adjustable and with tightener		
	NA.1.25 Abbe condenser, Rack & pinion adjustable		
Polarizer	360° rotatable, with four scale is 0°, 90°, 180°, 270°		
Filter	Frosted filter, Blue filter		
Collector	For illumination with halogen lamp With field diaphragm		
Illumination	With polarizer,6V 20W halogen lamp, adjustable brightness		

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JPL-1350 SERIES



JPL1350 series polarization microscopes are utilized polarize light to observe and research the polarize characteristic of the matter which have the double refraction. They can be used to medical inspection, such as the frame detail of the nerve fibre, the animal muscle, the plant fibre and the crystal of the tooth, bone, hair and alive cell etc. It can be observe the fine frame of the biochemistry salt crystal that the fine frame can't be observe for nature light.

Features:

Equipped with wide field eyepieces and achromatic objectives, the field of view is widely and clear. Coaxial coarse/fine focus system, with tensional adjustable and up stop, minimum division of fine focusing: 2μm. 6V 20W halogen lamp transmission illumination brightness control.

Standard Configuration:

Model	JPL1350	JPL1350A		
Eyepiece	Wide field WF10X/18mm			
	Achromatic objectives 4X/0.10			
Objective	Achromatic objectives 10X/0.25			
Objective	Achromatic objectives 40X/0.65 (S)			
	Achromatic objectives 100X/1.25(S, oi	l)		
Eyepieces tube	Binocular, Inclination of 30°			
Polarization analyzer	Sliding			
Econo avatam	Coaxial coarse/fine focus system, with	tensional adjustable and up stop, minimum division of fine		
Focus system	focusing: 2μm.			
Nosepiece	Quadruple (Backward ball bearing inner locating)			
Double layer mechanical st		Double layer mechanical stage with (Φ100mm) rotatable		
Stage	Rotatable stage(Diameter:Φ120mm)	stage (Size: 135mmX125mm Moving range: 75mmX35mm)		
Condenser	NA.1.25 Abbe condenser, Rack & pinio	on adjustable		
Filter	Blue filter, Frosted filter			
Polarizer	360° rotatable stage			
Collector	For illumination with halogen lamp With field diaphragm			
Illumination unit	With polarizer,6V 20W halogen lamp, adjustable brightness			