### Polarising Microscopes

from

### **GX Microscopes**



The largest range of polarising microscopes in the UK ranging from basic models education and hobbyist to advanced research microscopes. Includes transmitted and incident light, monocular, binocular and trinocular models, all with strain-free objectives and rotating stages.

	Range Overview							
	Model:	JPL-135	JPL1350HBG	XPL1500	XPL1503	XPL1530	XPL3200	XPL3230
Components	Product Code:	GXMJPL135	GXMJPL1350	GXMXPL1500	GXMXPL1503	GXMXPL1530	GXMXPL3200	GXMXPL3230
	10X	• (one )	• (pair)	• (pair)	• (pair)	• (pair)	• (pair)	• (pair)
Eyepieces	10x with reticle		• (one)	• (one)	• (one)	• (one)	• (one)	• (one)
	WF			•	•	•	•	•
	Monocular	•						
Head	Binocular		•					
	Trinocular			•	•	•	•	•
	Achromatic	•						
	Strain-free Achromatic		•					
	Strain-free Plan Achromatic coverslip corrected			•				
Objective Type	Strain-free Plan Achromatic non- coverslip corrected				•	•		
	Infinity Strain-free Plan Achromatic coverslip corrected						•	
	Infinity Strain-free Plan Achromatic non- coverslip corrected							•
No. Objectives		4	4	4	4	4	4 (5 opt)	4 (5 opt)
Centratable on nosepiece				•	•	•	•	•
Polariser Quality		std	std	High	High	High	Тор	Тор
Frame/Stand Type		Student	Teaching	Routine	Routine	Routine	Research	Research
Condenser		•	•	•		•	•	•
Illumination	Transmitted light	•	•	•		•	•	•
	Incident Light				•	•		•
Polarisers	Туре	Retractable in head, rotatable on collector	Retractable in head, rotatable on collector	Retractable in head, rotatable on condenser with click stops	Retractable in head, rotatable on condenser with click stops	Retractable in head, rotatable on condenser with click stops	Retractable in head external rotatable, rotatable on condenser with click stops	Retractable in head external rotatable, rotatable on condenser with click stops
Plates and wedges, scales and filters	1/4 & 1 wavelength retardation plates, quartz wedge, Bertrand lens centre adjustable			•	•	•	•	•
Stage	360° rotatable	•	•	•	•	•	•	•
Focus	Coarse/Fine focus mechanism, limit stopper and tension adjustment	(no tension adjustment nor limit stopper)	•	•	•	•	•	•

### product datasheet

# JPL-135 Monocular Simple Polarising Microscope

Specifications						
		Product Code:	GXMJPL135			
Eyepiece	Widefield	WF10X (18mm FOV)	STD			
Lyepiece		WF16X (11mm FOV)	ОРТ			
	Achromatic	4X/0.10	STD			
		10X/0.25	STD			
Objectives		40X/0.65 (sprungloaded)	STD			
		100X/1.25 Oil (sprungloaded)	STD			
Total Magnification	40X – 1000X		STD			
Condenser	Abbe condenser	Abbe condenser, rack & pinion adjustable, NA=1.25	STD			
Illumination	Transmitted light	6V20W halogen lamp, adjustable brightness	STD			
Nosepiece	Quadruple		STD			
Eyepiece Tube	Binocular (Compensation inclination of 30°)		(Compensation inclination of		STD	
Stage	size - 360° r	STD				
Focus	Coarse/Fine f with adjusta limit stop	STD				



The JPL-135 is equipped with a smooth, rotating, graduated stage and a set of polarisers that allow observation of all types of transmitted light polarised specimens such as thin sections of minerals, polymers, crystals and particulates.

This model, is part of GX Microscope's new range of polarising microscopes, it is affordable by amateur microscopists, schools and colleges.

It is equipped with a comfortable viewing, monocular head and a fine set of achromatic objectives giving a magnification range of 40X – 1000X.

The analyser mounted in the head is retractable and the polariser is mounted over the collector near the lamp and is rotatable though 360deg

The microscope is also supplied with a rack and pinion mounted, adjustable condenser with a 20W illumination source and coarse/fine focus knobs with limit stoppers and tension adjustment.

### product datasheet

#### JPL-1350HBG

Binocular Simple
Polarising Microscope

Specifications					
	JPL-1350HBG				
Eyepieces	Widefield	WF10X (18mm FOV)	STD		
cyepieces	Widelield	WF16X (11mm FOV)	ОРТ		
	Achromatic	4X/0.10	STD		
		10X/0.25	STD		
Objectives		40X/0.65 (sprungloaded)	STD		
		100X/1.25 Oil (sprungloaded)	STD		
Total Magnification		40X – 1000X	STD		
Condenser	Abbe condenser	Abbe condenser, rack & pinion adjustable, NA=1.25	STD		
Illumination	Transmitted light	6V20W halogen lamp, adjustable brightness	STD		
Nosepiece	Quadruple		STD		
Eyepiece Tube	Binocular (Compensation inclination of 30°)		STD		
Stage	size - 360° r	STD			
Focus	Coarse/Fine f with adjusta limit stop	STD			



The JPL-1350HBG is equipped with a smooth, rotating, graduated stage and a set of polarisers that allow observation of all types of transmitted light polarised specimens such as thin sections of minerals, polymers, crystals and particulates.

This model, is part of GX Microscope's new range of polarising microscopes, it is affordable by amateur microscopists, schools and colleges.

It is equipped with a comfortable viewing, adjustable binocular head and a fine set of achromatic objectives giving a magnification range of 40X – 1000X.

The analyser mounted in the head is retractable and the polariser is mounted over the collector near the lamp and is rotatable though 360deg

The microscope is also supplied with a rack and pinion mounted, adjustable condenser with 20W illumination and source coarse/fine focus with limit knobs stoppers and tension adjustment.



#### XPL1500 series

Routine and
Research Polarising
Microscopes

Specifications	XPL1500 SERIES				
	Model:	XPL1500	XPL1503	XPL1530	
	Product Code:	GXMXPL1500	GXMXPL1503	GXMXPL1530	
	10X pair	STD	STD	STD	
Widefield Eyepieces	10x with reticle crosshair with 10mm/0.1mm divisions	STD	STD	STD	
	16X	OPT	OPT	OPT	
	Monocular				
Head	Binocular	OPT			
	Trinocular	STD	STD	STD	
Centerable	X4 PLL	STD	STD	STD	
Objectives Plan Achromatic	X5 PLL	OPT	OPT	OPT	
POL	X10 PLL	STD	STD	STD	
Strain –free for	X20 PLL	OPT	OPT	OPT	
optimum quality	X40 PLL	STD	STD	STD	
imaging Non-coverslip	X50 PLL	OPT	OPT	OPT	
corrected	X60 PLL	STD	STD	STD	
(coverslip	X80 PLL	OPT	OPT	OPT	
corrected optional)	X100 PLL	OPT	OPT	OPT	
Total Magnification	40x-600x	STD	STD	STD	
Condenser	Adjustable, centerable NA 1.30	STD		STD	
Illumination	Transmitted light	STD			
	Incident Light		STD		
	Transmitted and Incident Light			STD	
Nosepiece	Quadruple	STD	STD	STD	
Nosepiece	Quintuple	OPT	OPT	OPT	
Polarisers	Retractable analyser in head 90deg rotatable with scale and rotatable polariser	STD	STD	STD	
Plates and wedges, scales and filters	1/4 & 1 wavelength retardation plates, quartz wedge, Bertrand lens centre adjustable	STD	STD	STD	
Stage	360° rotatable 30x40mm travel Centerable	STD	STD	STD	
Focus	Coarse/Fine focus mechanism, limit stopper and tension adjustment	STD	STD	STD	

### product datasheet





The XPL1500 series of polarising microscopes are specifically designed for use in routine and university level teaching laboratories.

The range includes standard transmitted light models and extends to include an excellent dual illumination model (XPL1530) which has both incident and transmitted illumination.

The XPL1500 series are based on one of GX Microscopes' most popular microscope ranges and feature a highly robust construction and first class optics designed to provide a long life and excellent quality images. This is backed by a 3 year warranty as standard on all models.

Designed with students in mind the number of removable components is minimised and the operation made as simple as possible.

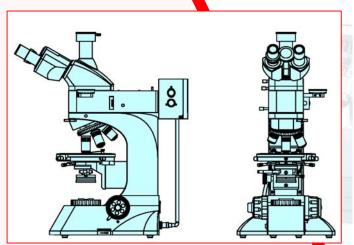
As standard a set of four, very high quality, strain-free, plan achromatic objectives form the heart of the instrument. A set of inserts allow viewing of all standard mineral types.

The optics are also fully corrected SO that changes in the viewing angle from the prism in head the during interocular distance adjustments does not cause any colour changes.

www.gxoptical.com

### XPL3200 Series <u>pro</u>duct datasheet

Advanced, Research Polarising Microscopes



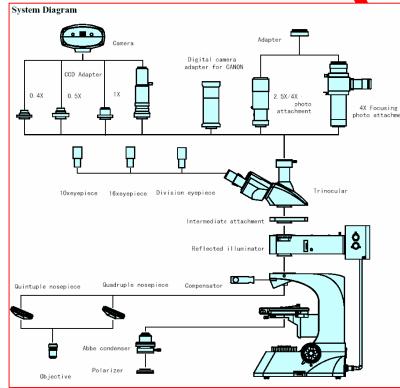


The XPL3200 series polarising microscopes are professional, research grade instruments equipped with a set of 4 (or 5) superb quality infinity optics, strain-free, plan achromatic objectives to provide very high quality imaging of a wide range of specimens.

These are the very latest models in the GX Microscopes range of polarising microscopes and are of exceptional build quality and delivery superb polarisation images.

> Each model in the range equipped with a smooth, rotating, graduated stage with locking screws, a rotating insertable analyser, Bertrand lens and click-stop rotatable polariser below the condenser.

> > These microscopes are suitable observation of all types of transparent and reflective polarised such specimens polished minerals, polymers, crystals and particulates.



### XPL3200 Series

#### product datasheet

Advanced, Research Polarising Microscopes

		Model:	XPL3200	XPL3230
	Widefield	Two WF10X	STD	STD
Eyepieces		WF10X with graduated crosshair scale	STD	STD
Head	Trinocular	0/100% split to camera with lever	STD	STD
	INFINITY PLL Plan Achromatic POL Strain –free for optimum quality imaging	4X/0.10 coverslip corr.	STD	OPT
		5X/0.10 non-coverslip corr.	OPT	STD
		10X/0.25 coverslip corr.	STD	OPT
		10X/0.25 non-coverslip corr.	OPT	STD
		20X/0.4 coverslip corr.	OPT	OPT
		20X/0.4 non-coverslip corr.		OPT
		40X/0.65 (spring-loaded) coverslip corr.		ОРТ
Centerable Objectives mounted on a quadruple nosepiece (Quintuple optional)		40X/0.65 (spring-loaded) non-coverslip corr.	ОРТ	STD
		60X/0.75 (spring-loaded) coverslip corr.	STD	ОРТ
		60X/0.75 (spring-loaded) non-coverslip corr.	ОРТ	STD
		80X/0.95 (spring-loaded) coverslip corr.	OPT	ОРТ
		80X/0.95 (spring-loaded) non-coverslip corr.	ОРТ	ОРТ
		100X/1.25 oil (spring-loaded) coverslip corr.	ОРТ	ОРТ
		100X/1.20 (spring-loaded) non-coverslip corr.	ОРТ	ОРТ
Total Magnification	40X – 600X (1000X OPT)		STD	STD
Condenser	Adjustable, centerable NA 1.30		STD	STD
Illumination	Transmitted light	6V30W halogen lamp, adjustable brightness with spare lamp	STD	STD
	Incident light	6V30W halogen lamp, adjustable brightness with spare lamp		STD
Nosepiece	Reversed quadrup	le (quintuple optional) centratable	STD	STD
Polarisers	Rotatable external analyser and polariser		STD	STD
Plates and wedges, scales and filters		m 1 wavelength retardation plate, 1 mm scale, blue filter, transmission adaptor	STD	STD
Stage	360° ro	tatable 30x40mm travel Centerable		STD
Focus	Coarse	/Fine focus mechanism		STD

This range is part of GX Microscope's latest range of polarising microscopes and represents the very best value for money in this demanding area of technology.

The standard model is equipped with infinity optics, trinocular head, a fine set of first class objectives giving a magnification range of 40X-600X (with options of up to 1000X).

One eyepiece is fitted with a measurement reticle with a crosshair for centering and measurement and includes a focussing adjustment.

The grade of polarisers fitted is the highest available giving good extinction with crossed polars.

The optics are also fully corrected so that changes in the viewing angle from the prism in the head during interocular distance adjustments does not cause any colour changes.

The microscope is also supplied with an adjustable condenser with 30W illumination sources, koehler illumination and coarse/fine focus knobs with limit stoppers and tension adjustment.

The incident light path in the XPL3230 model is introduced with a mirror attached to a lever.

The microscope frame is substantial giving high stability and is particularly suitable for photomicrography.

#### Supplied to you by:

GT Vision Ltd Hazel Stub Depot Camps Road Haverhill Suffolk CB9 9AF

Tel: 01440 714737 Fax: 01440 709421 eurosales@gt-vision.com

www.gxoptical.com www.gt-vision.com www.gxmicroscopes.com www.looksmall.com

www.gxoptical.com

Due to our policy of continuous development specifications may change without notice

Aug 08