

Brunel Microscopes Ltd



Brunel SP350XP Microscope

The Brunel SP350XP is a polarisation ore microscope with full specification transmitted and incident illumination that can be equipped with coverslip or non coverslip corrected objectives or a combination of the two. It has a trinocular head with x10 widefield eyepieces, with full interocular and dioptic adjustment, and the lighting control allows either full eyepiece or CCTV eyetube illumination. This is a large modern design, stable base, with ergonomically positioned coaxial coarse and fine focus controls. There are independent tension and focus stop controls that can be adjusted to suit the individual. The rotating circular stage has a ball bearing race for smooth movement and a well defined chapter ring for graduation measurement. Stage clips are supplied as standard, but there is the option of an attachable specimen driver with 'mushroom' controls to avoid damage to the objectives.



SP350XP rotating analyser



SP350XP incident illumination

The infinity corrected plan objectives are strain free and provide excellent optical performance. x5 (x4), x10, x40 and x60 either coverslip or non coverslip corrected or a combination of both types depending on customer specification.



SP350XP Kohler illumination



SP350XP rotating circular stage

Each has an adjustable seat with lateral movement controls to ensure that each objective can be positioned in the centre of the optical axis. In addition additional objectives are available as accessories. Non coverslip corrected x20, x50, x80 and x100 (dry) and coverslip x20 and x100 (oil).

The SP350XP has a graduated analyser, that can be rotated through 360° and a push/pull lever that allows the analyser to be introduced or removed from the optical path. There is a filter slot that allows the introduction of the quartz wedge, lambda and ¼ lambda wavelength plates. The Bertrand lens can be introduced to allow conoscopic assessment, and has centring adjusters to ensure correct alignment. The polariser is housed in a swing out holder with graduation and an indexing click stop at 360°. The substage condenser has full lateral position adjustment and an iris diaphragm, together with a flip top lens to ensure full field illumination at all magnifications.

With polarisation microscopy, illumination is very important and the SP350XP has excellent Kohler illumination systems, for both the transmitted and incident lighting. The rheostat controlled quartz halogen illumination for the incident lighting has full lamp adjustment with double iris and polariser adjustment.

Objective	N.A.	W.D. (mm)
PL L x5	0.10	26.10
PL L x10	0.25	20.20
PL L x40	0.40	3.98
PL L x60	0.65	3.18

Non coverslip corrected objectives

Objective	N.A.	W.D. (mm)
PL L x4	0.10	19.80
PL L x10	0.25	5.00
PL L x40	0.65	0.66
PL L x60	0.8	0.45

Coverslip corrected objectives

Brunel Microscopes has a suite of Microscopy and Computing related websites.

[Brunel website](http://www.brunelmicroscopes.co.uk)

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