SP500-P Polarising Research Microscope

The Brunel SP500-P is a polarising version of the Brunel SP500.

- The SP500-P has x4, x10, x25, x40 and x63 strain free achromatic objectives the x40 and x63 objectives have spring loaded front lenses as an additional safety feature. Each turret position has a seating that can be moved laterally by two adjusters in order to centre each objective in the optical path.

- A pair of x10 widefield eyepieces are complimented by x10 micrometer, cross hair and grid eyepieces, each having an 18mm field of view.

- The SP500-P has an effective 6 volt 30 watt rheostat controlled quartz halogen illumination system.

- The fully adjustable condenser has a numerical aperture of 1.25, and has an integral iris diaphragm and flip top lens. A fully rotating and graduated polarising filter is attached to the condenser base.

- The circular stage is fully graduated and has a ball bearing race to ensure smooth and rapid rotation.

- The analyser unit is compact and features a graduated analyser filter with push/pull lever that can be rotated through 90°. The Bertrand lens is housed in a slide in mount and has its own centring adjusters.

- The analyser unit also has a filter slot for the quartz wedge, gypsum wavelength and the mica ¼ wavelength plates that are supplied as standard.

Objective	N.A
x5	0.12
x10	0.25
x20	0.40
x40	0.60
x63	1.25

SLR camera adapter	**SP500P1**	**Parallax 35mm adapter**	**SP500P5**
T2 ring (state camera)	**SP500P2**	**CCTV adapter**	**SP500P6**
Digital camera adapter	**SP500P3**	**Mechanical stage**	**SP500P7**
Stage micrometer	**SP500P4**	**Spare bulb**	**SP500P8**

SP460F Fluorescence Research Microscope

The Brunel SP460F is a reflected light fluorescence microscope with the ability to be used additionally for transmitted bright field work. The instrument is equipped with high numerical aperture glycerine immersion objectives and plan achromatic bright field objectives. The microscope stand is particularly well engineered with a backward facing objective turret with a very positive objective indexing system.

- The incident fluorescent illumination is provided by a 100 watt high pressure mercury pressure lamp operated by a D.C. power supply with separate on/off, and push start buttons, and warning lamp. The full emission of the vapour lamp is achieved after approximately 10 minutes. The lamp unit is of robust construction with external lamp adjusting screws.

- The incident light path has an iris diaphragm and a rotating aperture plate with blanking and frosted filter options. The blue and green exciting filters are situated within the trinocular head and are controlled by push/pull levers on either side of the microscope head. An essential feature is the safety baffle plate that covers the objective and stage area to protect the operator.

- The large square mechanical stage has drop down coaxial movement controls with double vernier, and a blanking plate to prevent transmission light interference.

- The SP460F has a trinocular head suitable for all types of image capture. The eyetubes have interocular and dioptric adjustment and have x10 widefield eyepieces.

- When used for transmission bright field illumination, the stage light guard plate is removed, and the inbuilt 6 volt 20 watt rheostat controlled quartz halogen light source provides Kohler illumination.

- The substage condenser has rack and pinion focusing and can be centred. Numerical aperture 1.25.

- The microscope stand has low position coaxial coarse and fine focus controls that incorporate independent tension adjustment and variable focus safety stop.

Objective	N.A
x4	0.10
x10	0.25
x25	0.40
x40	0.60
x100 (oil)	1.25
x40 (glycerine)	0.24
x100(glycerine)	1.25

SLR camera adapter	**SP4601**	**CCTV adapter**	**SP4604**	**x10 micrometer eyepiece**	**SP4607**
T2 ring (state camera make)	**SP4602**	**Parallax photography unit**	**SP4605**	**Stage micrometer**	**SP4608**
Digital camera adapter	**SP4603**	**x20 eyepieces (pair)**	**SP4606**	**Spare mercury lamp**	**SP4609**