

### Brunel SP250 Video/Computer Microscope

The SP250 is an excellent example of a modern design concept. The microscope is based on a large stable stand finished in beige enamel. Incorporated into the binocular head is a 1/3 inch colour CCD chip. The SP250 has dual output, providing both analogue and digital signals. The SP250 can therefore be used with both TV/Monitor sets and with computers, the unit is simply "plugged" directly into a TV set or a computer via a USB port - or both at the same time.

#### Video Camera Device Specification:

1/3" CCD sensor, 480 lines resolution, auto iris and white balance controls (1/50 to 1/10,000 seconds). Video out PAL or NTSC colour.

- Binocular head with full interocular and dioptic adjustment.
- Inverted quadruple nosepiece with plan x4, x10, x40 and x100 objectives, matched with x10 widefield eyepieces.
- Large square mechanical stage measuring 150 x 145mm with a double vernier scale and drop down coaxial controls.
- Low position coaxial coarse and fine focus controls with tension adjustment and individually adjustable focus stop.
- Focusing substage condenser with lateral movement controls and iris diaphragm. Field lens allowing full Kohler illumination.
- Rheostat controlled quartz halogen illumination - 6 volts 20 watt.
- Dimensions: 395 x 190 x 235mm Weight 6 Kgm.



|                                |       |                    |       |                           |       |
|--------------------------------|-------|--------------------|-------|---------------------------|-------|
| x15 widefield eyepieces (pair) | SV101 | x60 plan objective | SV105 | Phase contrast set        | SV109 |
| x20 widefield eyepieces (pair) | SV102 | x25 plan objective | SV106 | Dark ground condenser dry | SV110 |
| x10 measuring eyepiece         | SV103 | Wooden case        | SV107 | Dark ground condenser oil | SV111 |
| Stage micrometer               | SV104 | Spare bulb         | SV108 | Scart plug                | SV112 |

### Brunel SP-95-I Inverted Biological Microscope



The Brunel SP-95-I is a laboratory standard inverted trinocular biological microscope ideal for cell culture and fluid deposit analysis. The key feature of this instrument is the high performance planachromatic long working distance objectives that are housed on a side mounted turret that ensures a good clearance distance between the objectives and the stage.

- Extra widefield x10/20mm eyepieces, with dioptic adjustment on both eyetubes.
- Specimen table measures 200 x 155 mm with drop down coaxial controls with 75mm movement on the X axis and 50mm on the Y axis. The table is fitted with three varying sized inserts for use with petri dishes, culture flasks and multiple well dishes.
- Long working distance condenser N.A. 0.4 with a working distance of 30mm. The condenser has rack and pinion focus with full centring and lateral adjustment, an internal iris diaphragm and a slot for phase rings and a filter holder.
- The SP-95-I has a low position coaxial coarse and fine focus mechanism with tension adjustment and individually variable focus stop. The fine focus is graduated in increments of 0.002 to facilitate depth measurement.
- The illumination system is 6 volt 20 watt quartz halogen with a centring mechanism and rheostat control. There is a field iris and focus mechanism allowing Kohler illumination. Swing out filter holder. The illumination electronics incorporates a 240 to 110 voltage switching device.
- Dimensions: 430 x 330 x 200mm Weight 8Kgms

| Objective | N.A. | Working distance |
|-----------|------|------------------|
| x10       | 0.25 | 7.9mm            |
| x10 phase | 0.25 | 7.9mm            |
| x25       | 0.40 | 5mm              |
| x40       | 0.60 | 3mm              |

|                                |       |                             |       |                           |       |
|--------------------------------|-------|-----------------------------|-------|---------------------------|-------|
| x15 widefield eyepieces (pair) | SP901 | x40 phase objective         | SP905 | Stage micrometer          | SP909 |
| x20 widefield eyepieces (pair) | SP902 | Photography attachment      | SP906 | Dark ground condenser dry | SP910 |
| x10 measuring eyepiece         | SP903 | Photography parallax system | SP907 | Dark ground condenser oil | SP911 |
| x25 phase objective            | SP904 | x3.2 photoeyepiece          | SP908 | Polariser/analyser simple | SP912 |