

SO-5800

... optics for life

XY Ophthalmic Microscope



- New digital technology.
- Fully integrated microscope.
- XY location movement
 - $\pm 25\text{mm}$ from centre.
 - Sterile (no-touch) return to centre function.
- Floor stand mounted.
- Foot controlled focus, zoom, lighting and XY
- High resolution Olympus optics.
- High intensity coaxial LED light
 - Remove the cost and inconvenience of spare bulbs for the life of the microscope.
- Operate from mains power (with internal regulation for voltage fluctuations) or 12V battery.
- coaxial streaming video with LCD monitor
- Assistant Microscope.

The SO-5800 XY Ophthalmic Microscope is the ideal instrument for the modern surgery room. It provides a low cost, yet high quality instrument suitable for the simplest to the most complex of procedures.

Features of this model includes the foot controlled XY, focus and zoom. Based on high intensity solid state LED technology, the light colour is similar to halogen light and gives low light scatter in the lens and maximum red reflex.

Ergonomic design coupled with modern technology and precision optics, this microscope is worthy of any hospital or clinic.

S P E C I F I C A T I O N S

OPTICAL HEAD	
Viewing System	Binocular stereoscopic, convergent angle 10° for viewing comfort. Image erection by high resolution prism system.
Eyepieces	Tube inclination 45° High field number 22 for wide field of view High eye relief 24.6mm and reversible eye cups for ease of use by spectacle wearers.
Magnification	Zoom, 4.2x to 25x continuous.
Field of View	53mm to 9mm depending on magnification.
Refractive Error Correction	±5D anisometropia
Pupillary Distance	50mm to 76mm, eyepiece tubes locked for ease of adjustment.
Focusing	Fine focus range ±25mm.
Mould Protection	Anti-fungus pellets (three year protection) standard.

ILLUMINATION	
Type	Coaxial, direct optical delivery system.
Lamp	20W LED, 65,000 lux, lifetime of the microscope.
UV and Blue light hazard	UV and blue light hazard: Filtered to 435nm
Colour Temperature	3,500°K
Intensity range	10 levels

XY	
Number of axis	Two
Range	± 25mm from centre
Return to centre	On start up or via a no touch sterile, infra red sensor.

FOOT CONTROL	
Functions	Focus, Zoom, Light Intensity, XY
Dimension	310 x 210 x 70 mm
Weight	5.1Kg
Cable length	2.0m
Mounting	Yes, to the main pillar

MOUNTING / MECHANICAL	
Arm	Elbow and angle poise movement in horizontal and vertical directions. Variable friction locks.
Reach	TBA
Head Tilt	+5° o -45°
Vertical Tension	Adjustable gas springs to set lifting force.
Height	TBA
Head Rotation	330° about the centre of the XY

POWER SUPPLY	
Mains Input	100-240VAC, 50-60Hz, 2.0A max. @ 100VAC
Mains Output Regulation	< ±5%
Protection	Over voltage, over current and short circuit protection
Battery / Auxiliary Input	12V DC, polarity and current surge protected.
Approvals	Medical grade approvals CSA C22.2 No. 60601.1-M90 UL 60601-1, 2nd edition IEC 60601-1 CE marked EN 60601-1-2:2001

PACKAGING AND WEIGHTS	
Microscope	810 x 520 x 31 mm 26 kg
Floor stand (two cartons)	900 x 270 x 290 mm 25 kg
Video System (optional)	420 x 490 x 340 mm 5 kg
Nett Weight	TBA

OPTIONAL UPGRADES	
Video System	SO-5800. Includes beam splitter, c-mount adapter, CCD camera, LCD monitor and monitor arms, cables and power supplies
Assistant Microscope	Binocular, non-coaxial assistant microscope for left or right mounting.



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