

# SO - 5900

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

### OPTICAL HEAD

<b>Viewing System</b>	Binocular stereoscopic, convergent angle 10° for viewing comfort. Image erection by high resolution prism system.
<b>Eyepieces</b>	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.
<b>Magnification</b>	Zoom, 4.2x to 25x continuous.
<b>Field of View</b>	53mm to 9mm depending on magnification.
<b>Refractive Error Correction</b>	±5D anisometropia
<b>Pupillary Distance</b>	50mm to 76mm, eyepiece tubes locked for ease of adjustment.
<b>Focusing</b>	Fine focus range ±25mm.
<b>Mould Protection</b>	Anti-fungus pellets (three year protection) standard.

### ILLUMINATION

<b>Type</b>	Coaxial, direct optical delivery system.
<b>Lamp</b>	20W LED, 65,000 lux, lifetime of the microscope.
<b>UV and Blue light hazard</b>	UV and blue light hazard: Filtered to 435nm
<b>Colour Temperature</b>	4,100°K
<b>Intensity range</b>	10 levels

### XY

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

### FOOT CONTROL

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

### MOUNTING / MECHANICAL

<b>Arm</b>	Elbow and angle poise movement in horizontal and vertical directions. Variable friction locks.
<b>Reach</b>	1150 mm
<b>Head Tilt</b>	+5° - 45°
<b>Vertical Tension</b>	Adjustable gas springs to set lifting force.
<b>Height</b>	1600 mm to top of pillar
<b>Head Rotation</b>	330° about the centre of the XY

### POWER SUPPLY

<b>Mains Input</b>	100-240VAC, 50-60Hz, 2.0A max. @ 100VAC
<b>Mains Output Regulation</b>	< ±5%
<b>Protection</b>	Over voltage, over current and short circuit protection
<b>Battery / Auxiliary Input</b>	12V DC, polarity and current surge protected.
<b>Approvals</b>	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

<b>Microscope</b>	810 x 520 x 31 mm 26 kg
<b>Floor stand (two cartons)</b>	900 x 270 x 290 mm 25 kg
<b>Video System (optional)</b>	420 x 490 x 340 mm 5 kg
<b>Nett Weight</b>	SO-5900: 72 kg SO-5900AV: 76 kg

### OPTIONAL UPGRADES

<b>Video System</b>	SO-5900V. Includes beam splitter, c-mount adapter, CCD camera, LCD monitor and monitor arms, cables and power supplies
<b>Assistant Microscope</b>	Binocular, non-coaxial assistant microscope for left or right mounting.

SO-5900 - STANDARD  
 SO-5900A + ASSISTANT MICROSCOPE  
 SO-5900V + VIDEO SYSTEM  
 SO-5900AV + ASSIST. MICROSCOPE + VIDEO SYSTEM



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