

# SO-5900

## XY Ophthalmic Microscope

- LCD function display.
- 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.
- Coaxial LED light
  - Remove the cost and inconvenience of spare bulbs for the life of the microscope.
- Universal AC voltage input or 12V battery.
- Includes
  - HD video system with LCD monitor
  - Assistant Microscope.

The SO-5900 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

|                                    |   |
|------------------------------------|---|
| <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°<br>High field number 22 for wide field of view<br>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>Working/focal Distance</b>      | 170mm from Aux Objective lens.  |
| <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, 75,000 lux, lifetime of the microscope. |
| <b>UV and Blue light hazard</b> | UV and blue light hazard: Filtered to 435nm      |
| <b>Colour Temperature</b>       | 3,000°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>            | 945 mm   |
| <b>Head Tilt</b>        | +5° o -45°   |
| <b>Vertical Tension</b> | Adjustable gas springs to set lifting force.   |
| <b>Height</b>           | 1605 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<br>CSA C22.2 No. 60601.1-M90<br>UL 60601-1, 2nd edition<br>IEC 60601-1<br>CE marked<br>EN 60601-1-2:2001 |

## PACKAGING AND WEIGHTS

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

## Assistant Microscope

|                         |   |
|-------------------------|---|
| <b>Microscope</b>       | Tube inclination 45 deg .<br>Viewing axis 6-7 deg to main Microscope.<br>Manual focusing. |
| <b>Eyepieces</b>        | 10X non adjustable  |
| <b>Mounting</b>         | L/hand or R/hand  |
| <b>Working distance</b> | 155 to 180mm  |

## Video System

|                |  |
|----------------|--|
| <b>Camera</b>  | 48 Mega Pixel CMOS<br>HDMI 1080@60fps<br>IR remote control<br>On board Micro SD card for recording |
| <b>Monitor</b> | 21.5 Colour LCD High-Definition<br>1920 X 1080 Resolution<br>mounted on articulating arm           |



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