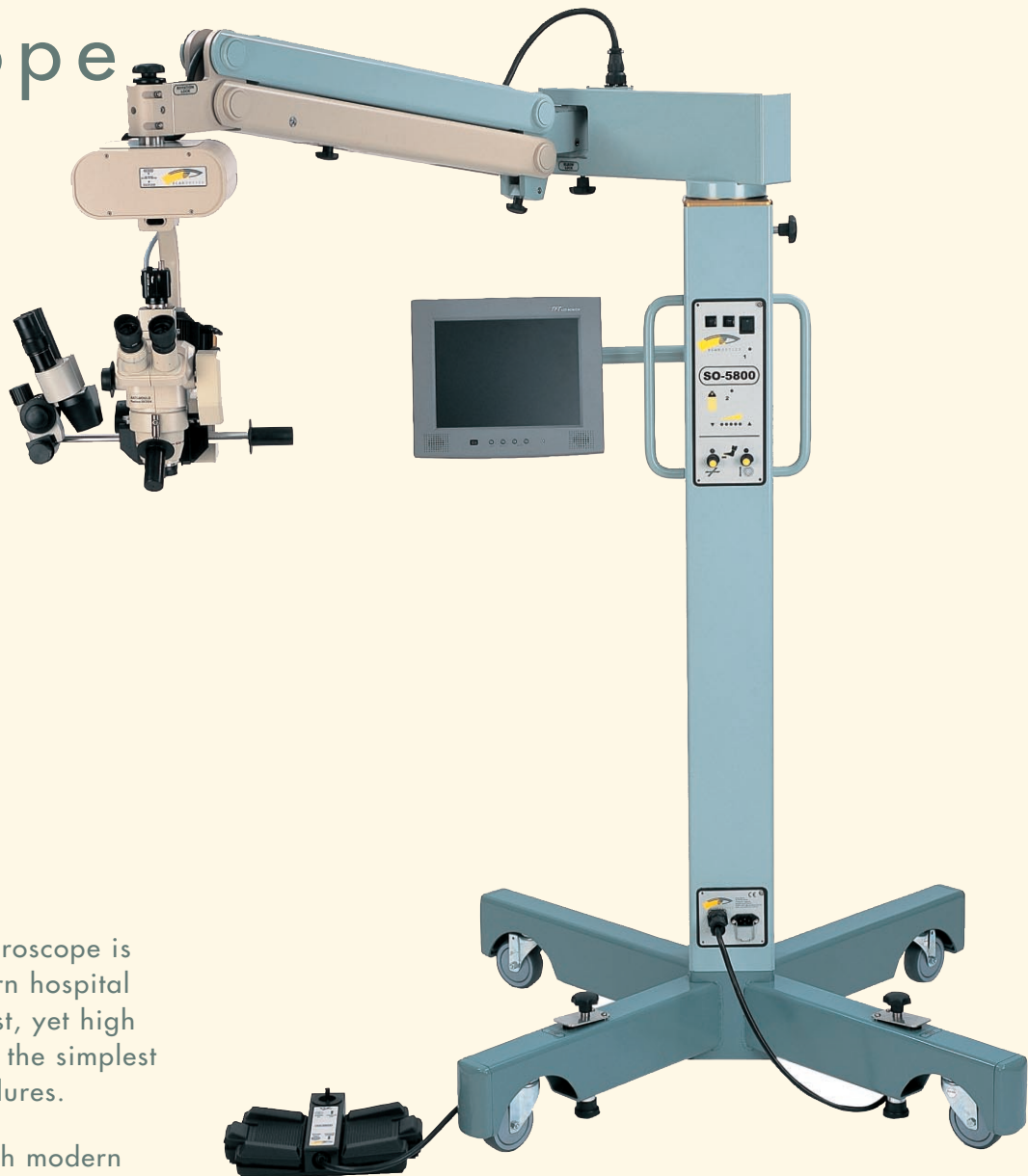


# SO-5800

## Ophthalmic Microscope

...optics for life!



**High resolution optical system**

**High intensity, coaxial light**

**Foot control for:**

- **XY translation**
- **focus**
- **zoom**

**Coaxial video system**

**Assistant microscope**

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

Ergonomic design coupled with modern technology and precision optics produce a microscope worthy of any hospital.

The Scan Optics Model SO-5800 Ophthalmic Microscope provides sharp image resolution and coaxial illumination for extracapsular cataract extraction including phacoemulsification, intraocular lens implantation and other surgical procedures.



SCANOPTICS

## SPECIFICATIONS: SO-5800 Series

### 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

**Working Distance:**

180mm from auxiliary objective

**Field of View:**

53 to 9mm depending on the magnification

**Refractive Correction:**

By focusing and ±5D left eyepiece for anisometropia

**Pupillary Distance:**

50 to 70mm, eyepiece tubes interlocked for ease of adjustment

**Focussing:**

Fine focus range ±25mm

**Mould Protection:**

Anti-fungal pellets (three year protection) standard

**Foot Controls:**

XY joystick, focus and zoom controls (variable speed) using sealed switches  
Manual knob controls remain available for zoom and focus

**Assistant Microscope:**

Quick change, left or right side mountable

### ILLUMINATION

**Main Light:**

Coaxial, direct optical delivery system  
12V 50W quartz halogen, rapid change lamp  
Internal UV and IR filters

**Intensity Control:**

Five step, standby control to select previous settings

### POWER SUPPLY

**Control:**

Touch panel for low contamination risk

**Mains Input:**

110, 200-260V AC, 47 to 440Hz, universal input  
5 metre cable, most earthed mains plug types available

**Circuit Breakers:**

External resettable circuit breakers on mains supply

**Electrical Approvals:**

IEC 60601-1, 60601-1-2

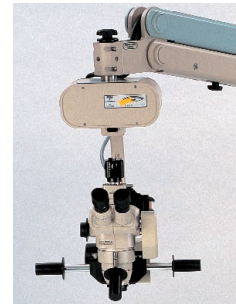
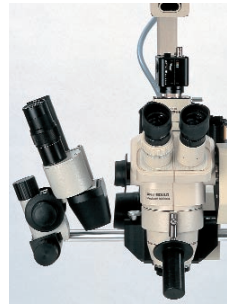
**Scan Optics**

32 Stirling Street, Thebarton SA 5031  
Adelaide, Australia

Tel: 61 (8) 8234 9120 Fax: 61 (8) 8234 9417

E-mail: admin@scanoptics.com.au

Web site: www.scanoptics.com.au



### MOUNTING SYSTEM

**Arm:**

Elbow and angle-poise movement, variable friction locks  
Safety position limiter

**Head Tilt:**

+5° to -45°

**XY Translation:**

50 X 50 mm  
Return to centre function

**Vertical Tension:**

Adjustable gas spring to set lifting force

**Dimensions:**

Vertical pillar to head optical axis, maximum 1460 mm (58")  
Floor to top 1750mm (69")  
Head vertical movement 600mm (24")

### VIDEO CAMERA

**Type:**

Waltec Wat-202B (PAL) CCD Colour Camera

**System:**

PAL

**Pick-up Element:**

1/3" CCD image sensor

**Lens Mount:**

CS Mount

**Horizontal Resolution:**

More than 420 TV lines

**Total Picture Elements:**

795 (H) x 596 (V)

**Scanning system:**

2:1 interlaced

**Power Supply:**

Built in 12V regulated

### MONITOR

**Type:**

AM133PV TFT LCD Monitor

**Screen:**

TFT Active Matrix Colour, Liquid Crystal Display type  
Screen size diagonal 337mm (13.3")  
Resolution 224,640 pixels  
Viewing angle: horizontal 120°, vertical 40°

**Options:**

378mm (15") Screen Optional

**Power Requirements:**

Built-in 12V regulated

**Dimensions:**

330 x 343 x 142mm (W x H x D)



Quality  
Endorsed  
Company  
Certified to  
ISO 9001