

# SO-161R

## Ophthalmic Microscope

...optics for life!

**High resolution optical system**

**Coaxial illumination**

**Fully Portable**

**Table, floor stand or wall mount**



The Scan Optics Model SO-161R Ophthalmic Microscope provides sharp image resolution and coaxial illumination for a wide range of minor surgical procedures as well as for extracapsular cataract extraction and intraocular lens implantation.

The SO-161R is the ideal instrument for in-office procedures. It provides a low cost, yet high quality instrument that will allow a wider range of procedures than a slit lamp including:

- excision of pterygia
- lid surgery such as chalazia removal, lid shortening and lid reduction
- lacrimal procedures, especially punctal occlusions  
difficult rust ring removals
- excisional biopsies of ocular surface pathology such as melanoses oculi and basal cell carcinomas
- removal of corneal sutures



SCANOPTICS

# SPECIFICATIONS : SO-161R Series

High resolution, wide-field optics provide excellent visibility of fine detail, good depth of focus and ease of orientation within the working area.

The lighting system produces fully coaxial light for a strong red fundus reflex and sharp definition of the lens capsule. Light intensity is continuously adjustable.

Three dimensional movement of the optical head allows many procedures to be more easily performed vertically on a prone patient than with a slit lamp.

The microscope is normally clamped to the operating table or to an adjacent trolley. It can also be mounted on the optional Scan Optics Model SO-311 Floor Stand or on the SO-411 Wall Mount.

A wide range of accessories is available, including an assistant microscope and an auxiliary light.

## OPTICAL HEAD

### Viewing System:

Binocular, stereoscopic (convergent angle 12°)  
Image erection by high resolution prism system

### Eyepieces:

Tube inclination 45°  
High field number 22 for wide field of view  
Reversible eye cups for ease of use by spectacle wearers

### Magnification:

Fixed, 6.25x. Optional 9.4x eyepieces are available

### Working Distance:

180mm (7") from auxiliary objective

### Field of View:

44mm

### Refractive Correction:

By focussing and +5D left eyepiece for anisometropia

### Interpupillary Distance:

Adjustable for distance PD range 52 to 75mm

### Focussing:

Fine focus range ±25mm

### Mould Protection:

Anti-fungus pellets (three year protection) standard

## ILLUMINATION

### Alignment:

Coaxial and parfocal with viewing system

### Lamp:

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

### Lamp Change:

Plug-in for fast change, no screws

### Intensity Control:

Continuous



### Scan Optics

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Specifications subject to change without notice

## POWER SUPPLY

### Main Input:

110V, 220-240V universal input  
5 metre detachable, most earthed mains plug types available

### Lamp Soft Start:

Ramped voltage switch-on to increase lamp life

### Circuit Breaker:

External resettable circuit breaker on mains power supply

### Battery Input:

12V DC, 5 metre cable with battery clips  
Automatic battery cut-in if mains power fails

## MOUNTING SYSTEM

### Arm:

Elbow and angle-poise movement in horizontal and vertical directions  
Maximum arm length to optical axis 790mm (31")  
Variable friction locks

### Head Tilt:

An optional adaptor can provide tilt of the head

### Vertical Tension:

Adjustable gas spring to set lifting force

### Clamp:

Opening 75mm (3"), throat 100mm (4")

### Mount Side:

Left or right hand

### Materials:

Specially selected to prevent rust and corrosion

### Dimensions:

Vertical pillar to head optical axis, maximum 930mm (37")  
Head vertical movement 320mm (13")

## PACKAGING

### Dimensions:

790 x 560 x 340mm (31"x 22" x 13.5")

### Weight:

18 kg (40lb) when packed

### Options:

Robust aluminium transit case, 12kg (26.4lb)