

SO-111 SERIES



Next Generation Ophthalmic Microscopes

New technology!

- ◆ Smaller and lighter than ever!
- ◆ Lifetime super bright LED light. No bulb failure to interrupt surgery.
- ◆ More light for stronger red reflex.
- ◆ UV and Blue Light Hazard protection for patient safety.
- ◆ Cold light. No harmful infrared.
- ◆ Choose between two-step and zoom magnification.
- ◆ Inbuilt voltage regulation. Constant light from any mains power supply.
- ◆ 12 volt battery operation.
- ◆ Table, floor stand or wall mount convenience.
- ◆ Lower cost



THE SO-111 OPHTHALMIC MICROSCOPE SERIES

MODEL	FEATURES				
	Mounting	Magnification	Coaxial Video	Assistant Microscope	Aluminium Transit Case
SO-111 T	Table	Two step	Not available	Option	Option
SO-111 TZ	Table	Zoom	Option	Option	Option
SO-111 SZ	Floor Stand	Zoom	Option	Option	Option. Not available for floor stand

SPECIFICATIONS : SO-111 SERIES

OPTICAL HEAD

Viewing System:

Binocular, stereoscope (convergence angle 10°)

Eyepieces:

Tube inclination 45°

Magnification:

SO-111 T: Two-step, 5x or 10x.

SO-111 TZ and SO-111 SZ : Zoom 4.2x to 25x continuous

Working Distance:

170mm from auxiliary objective

Field of View:

SO-111 T :40mm at 5x magnification

SO-111 TZ and SO-111 SZ :53mm to 9mm with magnification change

Refractive Correction:

By focusing and ±5D right eyepiece for anisometropia

Interpupillary Distance range:

SO-111 T: 52mm to 75mm

SO-111 TZ and SO-111 SZ: 50mm to 76mm

Focusing:

Fine focus range ±25mm

Mould Protection

Anti-fungus pellets (three year protection) standard

Assistant Microscope

Option available for all models

Non-coaxial



ILLUMINATION

Alignment:

Coaxial and parfocal with viewing system

Lamp:

Coaxial, direct optical delivery system

20W White LED with 435nm long pass minus-blue filter

No harmful UV and IR emissions

Non-replaceable for the lifetime of the microscope

Intensity Control:

Continuous

POWER SUPPLY

Mains Input:

90-264VAC / 0.8-0.4A universal input

Detachable 5 metre cable

Power Supply:

Output: 15VDC 3A Max

Approvals: UL/ CUL/ TUV/ CB/ CE

Safety Standards: UL2601-1/ IEC601-1/ EN60601-1 Approved

EMI Conduction and radiation: EN55011 (CISPR11) Class B

Protection:

Internal circuit breaker

Alternative Battery Input:

12VDC 3A

Battery Cable supplied as standard



MOUNTING SYSTEM

Arm:

Elbow and angle-poise movement in horizontal and vertical directions
Variable friction locks

Arm Dimensions:

Vertical pillar to head optical axis, maximum 930mm (37")

Head vertical movement 320mm (13")

Vertical Tension:

Adjustable gas spring to set lifting force

Head Tilt:

+5° to -45°

Table Clamp:

Opening: Adjustable

Mount Side: Left or right side of table

Floor Stand:

Option for SO-111 T

and SO-111 TZ. Standard for

SO-111 FZ

Packed in two cartons:

Dimension of each carton:

800 x 550 x 330mm

Weight in each carton:

22.5kg

Materials:

Mounting system materials selected to minimise rust and corrosion.



PACKAGING

Dimensions:

430 x 685 x 365mm (17" x 27" x 14.4")

Weight:

16kg (35lbs) when packed in carton

Options:

Aluminium transit case SO-111A

Wheeled for easy transport

Weight of microscope when packed

in aluminium case: 32kg (70lbs)



COAXIAL VIDEO SYSTEM

Option for SO-111 TZ and SO-111 FZ

models. Not available for the

SO-111 T. Supplied complete with

camera, beam splitter, monitor,

mounting arm, power supply and

cables.

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