

THE SO-111 OPHTHALMIC MICROSCOPE 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.



SO-111 OPHTHALMIC MICROSCOPE SERIES

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

SPECIFICATIONS

OPTICAL HEAD

Viewing System:

Binocular, stereoscope (convergence angle 10°)

Eyepieces:

Tube inclination 45°

Magnification:

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

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

Working Distance:

170mm from auxiliary objective

Field of View:

SO-111T: 40mm at 5x magnification

SO-111TZ/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:

Optional for SO-111 TZ
Standard for SO-111 SZ
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:

Aluminum transit case
SO-111A Wheeled for easy transport
Weight of microscope when packed in aluminum case:
32kg (70lbs)



COAXIAL VIDEO SYSTEM

Option for SO-111TZ/FZ models. Not available for the SO-111T. Supplied complete with camera, beam splitter, monitor, mounting arm, power supply and cables.



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