

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.



THE SO-111 OPHTHALMIC MICROSCOPE SERIES

| MODEL | FEATURES | | | |
|----------|-------------|---------------|----------------------|---|
| | Mounting | Magnification | Assistant Microscope | Aluminium Transit Case |
| SO-111T | Table | Two-step | Optional | Optional |
| SO-111TZ | Table | Zoom | Optional | Optional |
| SO-111SZ | Floor-Stand | Zoom | 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 $\pm 5D$ 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 $\pm 25mm$

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 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:

Aluminum transit case SO-

111A Wheeled for easy transport

Weight of microscope when packed in aluminum case:

32kg (70lbs)



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