

Slit Lamp, Motorized Table and Indirect Ophthalmoscope Bundle

Operating Manual

Ophthalmic Diagnostic Equipment

Intended use

Complete eye examination setup: a 2-step slit lamp microscope for anterior segment examination, a motorized table for height adjustment, and a wireless binocular indirect ophthalmoscope for retinal examination.

Intended users

For use by trained healthcare professionals (ophthalmologists, optometrists and supervised trainees). Follow your facility's protocols and applicable regulations.

Read this manual completely before first use and keep it with the product. This document provides general operating, care and safety guidance. Where the product is supplied with manufacturer labeling or instructions, those take precedence. For questions, a replacement copy, or a digital copy of this manual, email sales@scimedstore.com.

1. Safety

Safety warnings and cautions

- For use by trained healthcare professionals. Follow your facility's protocols and applicable regulations.
- Connect each component only to a grounded outlet with the supply voltage marked on the unit.
- Use the lowest light intensity and shortest exposure that give an adequate view, to limit light exposure to the patient's eye, especially with the indirect ophthalmoscope.
- Lock the table casters before examining a patient. Keep the patient's knees and hands clear of the table while it moves.
- Lamps and lamp housings become hot. Allow them to cool before replacing lamps.
- Unplug all components before cleaning, lamp replacement or servicing. Do not allow liquids to enter any housing.
- Charge and handle the indirect ophthalmoscope's rechargeable battery only as described in its own user manual.
- Disinfect chin rest and forehead rest between patients.

2. Package contents

- 2-step slit lamp microscope
- Motorized adjustable exam table
- Wireless binocular indirect ophthalmoscope
- Lamp module and filter set
- Chin rest and forehead rest
- Power supply
- Foot pedals
- Mounting hardware
- User manuals

Check contents on receipt. Report missing or damaged items to sales@scimedstore.com within 48 hours of delivery.

3. Specifications

Slit lamp type	2-step slit lamp microscope
Magnification steps	10x and 16x (lever switch)
Eyepieces	10x or 15x wide-field
Total magnification	10x, 16x (10x eyepieces) or 15x, 24x (15x eyepieces)
Real field of view	18 mm / 11 mm (10x) or 14 mm / 9 mm (15x)
Pupillary distance	52-90 mm
Diopter adjustment	±8 D
Working distance	100 mm
Slit width / length	0-12 mm continuously variable
Slit apertures	0.2, 1, 3, 4, 6, 10, 14 mm
Slit angle	0°-180°
Filters	Yellow, red-free, neutral density, cobalt blue, diffuser
Slit lamp input voltage	110V / 220V AC, 50/60 Hz
Lamp	12V, 50W
Power consumption	45 W max
Movement range	Longitudinal 99 mm, lateral 118 mm, vertical 30 mm
Chin rest range	55 mm
Slit lamp dimensions	530 x 380 x 780 mm (L x W x H)
Slit lamp packed weight	20 kg
Table	Sealed motorized lift, foot-switch control, 4-caster base, 110V / 220V

4. Unpacking and setup

- 1 Unpack all components and check them against the package contents list.
- 2 Place the table on a level floor and lock the casters. Raise and lower it once with the foot switch to check operation.
- 3 Mount the slit lamp on the table using the supplied mounting hardware, following the slit lamp user manual.
- 4 Fit the chin rest and forehead rest and connect the lamp module and power supply.
- 5 Check that the supply voltage matches each component, then plug into grounded outlets. Route cables away from the patient area and moving parts.
- 6 Set the eyepiece diopters to zero and adjust the pupillary distance (52-90 mm) for the examiner.
- 7 Charge the indirect ophthalmoscope before first use as described in its user manual.

5. Operation

Slit lamp examination

- 1 Clean and disinfect the chin rest and forehead rest.

- 2 Seat the patient and adjust the table height with the foot switch so the patient sits comfortably with chin on the chin rest and forehead against the band.
- 3 Adjust the chin rest so the patient's eye level aligns with the marker on the headrest.
- 4 Switch on the lamp at a low setting and select the slit width, length, aperture and filter needed.
- 5 Select 10x or 16x magnification with the lever.
- 6 Use the joystick to bring the eye into focus, then adjust beam angle (0-180°) and illumination as needed.
- 7 Switch the lamp off after the examination and lower the table for the patient to leave.

Indirect ophthalmoscope examination

- 1 Put on the headset and adjust the headband for a secure, comfortable fit.
- 2 Adjust the oculars for your pupillary distance and align the light beam with your viewing field.
- 3 Dilate the patient's pupils according to clinical protocol and physician's judgment.
- 4 Switch on the light at a low setting and increase only as needed.
- 5 Hold a handheld condensing lens in front of the patient's eye and move until the fundus image fills the lens.
- 6 Ask the patient to look in different directions to examine the periphery.
- 7 Switch off and return the headset to its charger or storage after use.

Motorized table

- 1 Use the foot switch to raise or lower the table; release it to stop.
- 2 Lock the casters before each examination.
- 3 To move the table, lower it, unplug it, release the casters and push gently by the frame.

6. Cleaning and disinfection

- Unplug all components before cleaning.
- Clean the chin rest, forehead rest and handles between patients with a disinfectant compatible with the materials, per facility protocol.
- Clean eyepieces and optical surfaces only with lens tissue and a lens cleaner suitable for coated optics. Do not use abrasive cleaners.
- Wipe housings and the table with a soft cloth lightly dampened with mild detergent. Do not spray liquid directly onto equipment.
- Do not autoclave any component.

7. Maintenance and storage

- Fit dust covers on the slit lamp and store the indirect ophthalmoscope in its case when not in use.
- Replace slit lamp lamps only with the type specified (12V, 50W).
- Check power cords, foot switches and caster locks regularly.
- Maintain the indirect ophthalmoscope battery as described in its user manual.

- Refer optical, electrical and motor repairs to qualified service personnel.

8. Troubleshooting

Problem	Likely cause	What to do
Slit lamp does not light	No power, lamp failed or loose connection	Check power supply and connections; replace the lamp if failed.
Image blurred in eyepieces	Eyepiece diopter or PD not set for the examiner	Reset the diopter and pupillary distance.
Table does not move	No power or foot switch not connected	Check the outlet, power cord and foot switch connection.
Table rolls during exam	Castors not locked	Lock the casters.
Indirect ophthalmoscope light dim or off	Battery low	Recharge as described in its user manual.
Uneven slit beam	Lamp not seated correctly or dirty optics	Re-seat the lamp and clean the optics with lens tissue.

9. Disposal

- Dispose of electrical components, lamps and rechargeable batteries as electronic waste in accordance with local regulations.
- Do not discard batteries in household waste.

10. Warranty and support

Products are covered by SciMed's standard warranty (12 months from purchase unless a different period is stated on your invoice). Warranty terms: scimedstore.com/pages/warranty.

Support, spare parts and additional copies of this manual: sales@scimedstore.com. Please include your order number and a photo of the product or issue.

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