

5-Step Slit Lamp with Applanation Tonometer, Beam Splitter and Camera

Operating Manual

Ophthalmic Diagnostic Equipment

Intended use

A slit lamp biomicroscope with 5-step magnification for examining the anterior segment of the eye, with an applanation tonometer for intraocular pressure measurement and a beam splitter and camera for image and video documentation.

Intended users

Ophthalmologists, optometrists and trained eye-care staff. For use by trained healthcare professionals. 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

- Connect only to a properly grounded outlet with the supply voltage marked on the unit.
- Unplug before cleaning, inspection or moving. Do not let liquids enter the housing, and do not operate with wet hands or a damaged cord.
- For use by trained healthcare professionals. Follow your facility's protocols and applicable regulations.
- Use the lowest light intensity needed and limit exposure time to reduce patient discomfort.
- Clean and disinfect the chin rest, forehead rest and tonometer tip between patients.
- Inspect the tonometer tip for damage before each use.
- Make sure the table and patient are stable before moving the instrument base.
- Interpretation of findings is according to clinical judgment.

2. Package contents

- Slit lamp
- Applanation tonometer
- Beam splitter
- Camera

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

3. Specifications

Optical type	Slit lamp biomicroscope
Magnification	5-step changer
Tonometry	Goldmann-style applanation tonometer
Beam splitter	Integrated for camera/observer path
Imaging	Camera for stills and video
Supply voltage	110 V or 220 V configuration (confirm with supplier)

4. Unpacking and setup

- 1 Place the slit lamp on a stable instrument table.
- 2 Check that the voltage configuration matches your supply before connecting.
- 3 Install the tonometer, beam splitter and camera according to the supplier's instructions.
- 4 Connect to a grounded outlet and the camera to your computer or recorder as supplied.
- 5 Adjust eyepieces for interpupillary distance and focus for each examiner.

5. Operation

Slit lamp examination

- 1 Seat the patient with chin on the chin rest and forehead against the band; align eyes with the canthus marker.
- 2 Switch on with low illumination.
- 3 Select low magnification and focus using the joystick.
- 4 Adjust slit width, height, angle and filters as needed.
- 5 Increase magnification step by step for detail.
- 6 Switch off or dim the light after the exam.

Applanation tonometry

- 1 Prepare the eye according to clinical protocol.
- 2 Swing the tonometer into position and set the measuring drum according to the tonometer instructions.
- 3 Use the cobalt blue filter and bring the tip gently into contact with the cornea.
- 4 Adjust the drum until the semicircles align as described in the tonometer instructions and read the value.
- 5 Withdraw the tonometer and record the result.

Image capture

- 1 Turn on the camera and capture software.
- 2 Focus through the eyepieces, then capture stills or video.
- 3 Save images according to your clinic's record procedures.

6. Cleaning and disinfection

- Unplug before cleaning.
- Wipe chin rest and forehead rest with a facility-approved disinfectant between patients.
- Clean and disinfect the tonometer tip per facility protocol.
- Clean optical surfaces with lens tissue only; do not use abrasives.
- Do not spray liquids on the instrument.

7. Maintenance and storage

- Cover with a dust cover when not in use.
- Check lamp and moving parts regularly.
- Have the tonometer calibration checked periodically.
- Have repairs done by qualified service personnel.

8. Troubleshooting

Problem	Likely cause	What to do
No illumination	No power or lamp fault	Check plug, switch and fuse; replace lamp if needed
Image blurred	Eyepieces not focused	Focus each eyepiece
Camera not recording	Cable or software issue	Check connections and software settings
Tonometer readings inconsistent	Tip not cleaned or calibration needed	Clean tip; have calibration checked
Joystick stiff	Dirt on base rails	Clean the rails

9. Disposal

- Dispose of as electrical and electronic equipment per local regulations.
- Dispose of used disinfectant wipes as clinical 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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