

90D Double Aspheric Lens, 48 mm Aperture

Instructions for Use

Ophthalmic Diagnostic Lens

Intended use

Non-contact double aspheric condensing lens used with a slit lamp biomicroscope for indirect examination of the fundus, optic nerve head, macula and posterior segment.

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.
- This is a non-contact lens. Do not place the lens on the cornea or eyelids.
- Inspect the lens before use; do not use it if chipped, cracked or the coating is damaged.
- Hold the lens firmly by its rim to avoid dropping it.
- Keep slit lamp illumination at the lowest level that gives an adequate view, according to clinical judgment.
- Do not autoclave or immerse the lens in liquid disinfectant.

2. Package contents

- 90D double aspheric lens
- Hard protective storage case

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

3. Specifications

Lens power	90 D
Aperture	48 mm
Image magnification	2.97x
Field of view (static)	50°
Working distance	47 mm
Optics	Double aspheric glass
Coating	Anti-reflection multi-layer coating
Contact type	Non-contact
Case	Hard protective storage case

4. Unpacking and setup

- 1 Remove the lens from its case by the rim.
- 2 Check both surfaces for dust or smudges and clean with lens tissue if needed.
- 3 Set up the slit lamp according to its own instructions, starting at low magnification.
- 4 Prepare and position the patient according to your clinical protocol.

5. Operation

Fundus examination with a slit lamp

- 1 Align the slit lamp beam with the viewing axis and direct it at the pupil.
- 2 Hold the lens about its working distance (47 mm) in front of the patient's eye without touching it.
- 3 Steady your hand by resting it on the slit lamp or the patient's forehead bar.

- 4 Pull the slit lamp joystick back slowly until the fundus comes into focus.
- 5 Tilt the lens slightly to remove reflections.
- 6 Move the joystick or ask the patient to change fixation to view other areas.
- 7 Increase magnification as needed for detail.
- 8 Return the lens to its case after use.

6. Cleaning and disinfection

- Never touch the lens surfaces with fingers; skin oils can degrade the anti-reflection coating.
- Remove dust with a soft brush or puffer before wiping.
- Clean surfaces with lens tissue and an optical lens cleaning solution.
- Do not use abrasives or alcohol-based clinical disinfectants on the lens surfaces.
- Do not autoclave and do not immerse the lens in liquid.

7. Maintenance and storage

- Store the lens in its hard case when not in use.
- Keep the case in a dry place away from heat and direct sunlight.
- Inspect the lens regularly for scratches, chips or coating damage.

8. Troubleshooting

Problem	Likely cause	What to do
Glare or reflections	Lens perpendicular to beam or illumination too bright	Tilt the lens slightly and reduce illumination as appropriate
Blurred image	Dirty lens surface or incorrect focus	Clean the lens; refocus by moving the slit lamp slowly
Cannot find the fundus image	Lens too close or too far, or beam misaligned	Start with the lens near the eye and pull the slit lamp back slowly; realign the beam
Image unstable	Hand movement	Rest your hand on the slit lamp or forehead bar
Persistent spots in image	Scratched or damaged coating	Stop using the lens and replace it

9. Disposal

- Dispose of a damaged lens as glass waste according to local regulations.
- Clean and disinfect before disposal if contamination is possible.

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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