

78D Double Aspheric Diagnostic Lens

Instructions for Use

Ophthalmic Diagnostic Lens

Intended use

Non-contact handheld lens for indirect biomicroscopy of the fundus at the slit lamp, providing a wide view of the retina including the periphery. Suited to examination through small pupils and dynamic sweeping of the fundus.

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 touch the lens to the patient's cornea, lids or lashes.
- Inspect the lens before each use. Do not use a lens that is chipped, cracked or loose in its ring.
- Keep slit lamp illumination at the lowest level that gives an adequate view and limit exposure time to reduce patient light discomfort.
- Hold the lens securely by its ring. Dropping the lens can crack the glass or damage the coating.
- Do not use alcohol-based or abrasive cleaners on the lens surfaces; they can damage the anti-reflection coating.
- Do not autoclave or heat-sterilize the lens. Clean and disinfect per facility protocol.

2. Package contents

- 78D 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	78 D
Field of view	Approx. 81° static / approx. 97° dynamic
Image magnification	0.93x
Optics	Double aspheric glass
Aperture	Small aperture ring
Coating	Anti-reflection multi-layer coating
Contact	Non-contact

4. Unpacking and setup

- 1 Remove the lens from its case, holding it only by the ring.
- 2 Inspect both lens surfaces for dust, smudges or damage and clean with lens tissue if needed.
- 3 Set up the slit lamp per its own instructions: adjust eyepieces, chin rest and table height for the patient.
- 4 Set the slit lamp to low magnification with the illumination and viewing arms coaxial and a moderately wide slit.
- 5 Dilate the pupil according to clinical protocol and physician's judgment where appropriate.

5. Operation

Fundus examination at the slit lamp

- 1 Seat the patient with chin and forehead in the slit lamp rests and ask them to look straight ahead or at a fixation target.
- 2 Focus the slit beam on the cornea, then pull the slit lamp back slightly from the eye.

- 3 Hold the lens between thumb and index finger in front of the eye, close to the cornea, and steady your hand on the chin rest or headrest.
- 4 Center the beam through the lens and pupil, then slowly pull the slit lamp back until the fundus image comes into focus.
- 5 Adjust slit width, height and illumination as needed for the area under examination.
- 6 Note that the image is inverted and reversed; interpret findings accordingly.

Peripheral and dynamic examination

- 1 Ask the patient to look in the direction of the area to be examined.
- 2 Tilt and decenter the lens slightly toward the area of interest while keeping the beam aligned through the lens.
- 3 Sweep the lens laterally in small movements to survey the fundus continuously, refocusing with the slit lamp joystick as needed.
- 4 Return the patient's gaze to primary position between quadrants to reduce fatigue.

After the examination

- 1 Clean the lens surfaces as described in the Cleaning section.
- 2 Return the lens to its case immediately.

6. Cleaning and disinfection

- Clean after each patient according to facility protocol.
- Remove loose dust first with a soft lens brush or a puff of clean air.
- Wipe the lens surfaces gently with lens tissue moistened with a lens-cleaning solution suitable for coated optics, using a circular motion from the center outward.
- Do not touch the lens surfaces with fingers; skin oils can degrade the coating.
- Do not use alcohol-based clinical disinfectants, abrasive cleaners or paper towels on the lens surfaces.
- Do not autoclave. Clean and disinfect per facility protocol; do not autoclave unless labeled as autoclavable.

7. Maintenance and storage

- Store the lens in its hard protective case when not in use.
- Keep in a clean, dry place away from extreme heat, cold and direct sunlight.
- Inspect the coating and glass periodically for scratches, chips or coating wear.
- Replace the lens if the surfaces are damaged to the point that image quality is reduced.

8. Troubleshooting

Problem	Likely cause	What to do
Image is hazy or low in contrast	Smudges or dust on lens surfaces	Clean both lens surfaces with lens tissue and suitable lens cleaner.
Strong reflections in the view	Lens perpendicular to the beam or illumination too bright	Tilt the lens slightly and reduce illumination.
Cannot find a fundus image	Slit lamp too close to the lens or beam not centered	Re-center the beam through the lens and pupil and pull the slit lamp back slowly until the image focuses.
View is cut off or very small	Small pupil or lens held too far from the eye	Bring the lens closer to the eye; consider dilation according to clinical protocol.
Lens fogs up	Temperature difference or patient breath	Wait briefly or wipe gently with lens tissue; ask the patient to breathe normally away from the lens.

9. Disposal

- Dispose of a damaged or retired lens according to local regulations for glass and medical equipment.
- Clean and disinfect before disposal per facility protocol.

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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