

28D Double Aspheric Lens for Slit Lamp Fundus Examination

Instructions for Use

Ophthalmic Diagnostic Lens

Intended use

Non-contact 28 diopter double aspheric lens used with a slit lamp or binocular indirect ophthalmoscope to view the fundus. Suited to wide-field fundus examination, vitreoretinal screening and dilated retinal examination.

Intended users

Trained eye care professionals (ophthalmologists, optometrists and supervised trainees). 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

- For use by trained healthcare professionals. Follow your facility's protocols and applicable regulations.
- This is a non-contact lens. Do not allow the lens to touch the patient's eye.
- Inspect the lens before each use. Do not use a lens that is chipped, cracked or scratched in the viewing area.
- Limit slit lamp or ophthalmoscope light exposure to what is needed for the examination, following your facility's light-safety practice.
- Handle the lens by its rim only. Avoid touching the optical surfaces.
- Do not drop the lens. Return it to its case when not in use.
- Clean and disinfect between patients per facility protocol. Do not autoclave unless labeled as autoclavable.

2. Package contents

- 28D double aspheric lens
- Protective hard case

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

3. Specifications

Power	28 D
Optical design	Double aspheric glass
Contact type	Non-contact
Compatibility	Slit lamp fundus examination; indirect ophthalmoscopy
Storage	Protective hard case

4. Unpacking and setup

- 1 Remove the lens from its case, holding it by the rim.
- 2 Inspect both optical surfaces for dust, smudges or damage. Clean if needed (see Cleaning).
- 3 Set up the slit lamp or indirect ophthalmoscope per its own instructions, with the patient prepared per your clinic's protocol.
- 4 Identify the lens orientation marking, if present, and hold the lens with the correct side facing the patient.

5. Operation

Slit lamp fundus examination

- 1 Position the patient comfortably at the slit lamp with chin and forehead in the rests.
- 2 Set a narrow to moderate beam with low illumination and center it on the pupil.
- 3 Hold the lens by its rim between thumb and index finger, steadying your hand on the headrest bar or patient's brow area.
- 4 Place the lens in front of the eye at its working distance, centered on the pupil, without touching the eye.

- 5 Pull the slit lamp back from the eye and move it slowly forward until the fundus image comes into focus.
- 6 Make small tilts and shifts of the lens to remove reflections and to view different areas of the fundus.
- 7 Ask the patient to change fixation to examine peripheral areas.
- 8 After the examination, return the lens to its case and clean it before the next patient.

Indirect ophthalmoscopy

- 1 Set up the indirect ophthalmoscope and adjust the light to the lowest level giving a usable view.
- 2 Hold the lens at arm's length in line with the light beam and the patient's pupil.
- 3 Bring the lens in front of the eye and move it slowly toward or away from the eye until the fundus fills the lens.
- 4 Tilt the lens slightly to reduce reflections.
- 5 Move around the patient and direct the patient's gaze to examine the periphery systematically.

6. Cleaning and disinfection

- Remove dust with a soft brush or air blower before wiping.
- Clean the optical surfaces gently with lens tissue or a soft lint-free lens cloth, using a small amount of lens cleaner if needed.
- Do not use abrasives, paper towels or alcohol on the lens surfaces unless the labeling allows it.
- Clean and disinfect the lens between patients per facility protocol. Do not autoclave unless labeled as autoclavable.
- Allow the lens to dry fully before returning it to the case.

7. Maintenance and storage

- Store the lens in its hard case when not in use.
- Keep in a clean, dry place away from extreme heat and direct sunlight.
- Check the lens regularly for scratches, chips or coating damage, and take a damaged lens out of service.
- Keep the case clean and free of grit that could scratch the lens.

8. Troubleshooting

Problem	Likely cause	What to do
Image is blurred or unclear	Incorrect working distance or dirty lens	Move the slit lamp or lens slowly to refocus; clean the lens surfaces.
Bright reflections obscure the view	Lens held perpendicular to the beam	Tilt the lens slightly and reduce the illumination.
Image appears upside down and reversed	Normal for indirect viewing lenses	No action needed; interpret the image accordingly.
Small field of view	Small pupil or lens too far from eye	Confirm adequate pupil dilation per protocol and adjust the lens position.
Smears return after cleaning	Residue from cleaner or fingerprints	Clean again with fresh lens tissue and handle the lens by its rim only.

9. Disposal

- Dispose of a damaged or retired lens according to local regulations for glass and optical waste.
- Clean and disinfect the lens before disposal or return.

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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