

Aspheric Ophthalmic Lens Set: 20D, 78D and 90D

Instructions for Use

Ophthalmic Diagnostic Lens

Intended use

Non-contact double aspheric condensing lenses for examination of the retina and posterior segment. The 20D lens is used with a binocular indirect ophthalmoscope; the 78D and 90D lenses are used with a slit lamp biomicroscope.

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.
- These are non-contact lenses. Do not place the lens on the cornea or eyelids.
- Inspect each lens before use; do not use a lens that is chipped, cracked or has a damaged coating.
- Hold the lens firmly by its rim; a dropped glass lens can chip or crack.
- Keep slit lamp and ophthalmoscope illumination at the lowest level that gives an adequate view, according to clinical judgment.
- Do not autoclave, boil or immerse the lenses in liquid unless labeled as suitable.

2. Package contents

- 20D double aspheric lens
- 78D double aspheric lens
- 90D double aspheric lens
- Wooden safety case

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

3. Specifications

Lenses included	20D, 78D and 90D
Optics	Double aspheric glass
Contact type	Non-contact
20D use	Binocular indirect ophthalmoscopy, wide field of view
78D use	Slit lamp fundus examination, extended working distance
90D use	Slit lamp fundus examination, wide-field posterior pole
Case	Wooden safety case
Variants	Varies by variant: Black, Red, Golden, Blue, Green, Pink

4. Unpacking and setup

- 1 Remove the required lens from the wooden case by its rim.
- 2 Check both lens surfaces for dust, fingerprints or smudges; clean with lens tissue if needed.
- 3 Confirm the ophthalmoscope or slit lamp is working and set up according to its own instructions.
- 4 Prepare the patient according to your clinical protocol.
- 5 Close the case after removing the lens to protect the remaining lenses.

5. Operation

20D lens with a binocular indirect ophthalmoscope

- 1 Position yourself at arm's length from the patient with the ophthalmoscope light directed at the pupil.
- 2 Hold the lens between thumb and forefinger, close to the patient's eye.
- 3 Draw the lens slowly back toward yourself until the fundus image fills the lens.
- 4 Keep the lens perpendicular to the light path and tilt slightly to reduce reflections.
- 5 Move your head and the lens together to examine different areas of the retina.
- 6 Return the lens to its case when finished.

78D and 90D lenses with a slit lamp

- 1 Seat the patient comfortably at the slit lamp with chin and forehead in position.
- 2 Set the slit lamp to low magnification and align the light beam with the viewing axis.
- 3 Hold the lens in front of the patient's eye, a short distance from the cornea, without touching it.
- 4 Pull the slit lamp joystick back slowly until the fundus image comes into focus.
- 5 Adjust lens tilt slightly to remove reflections.
- 6 Increase magnification or move the beam as needed to examine the required area.
- 7 Return the lens to its case when finished.

6. Cleaning and disinfection

- Never touch the lens surfaces with fingers; skin oils can damage the coating.
- Remove dust with a soft brush or puffer before wiping.
- Clean surfaces gently with lens tissue and an optical lens cleaning solution.
- Do not use abrasives, paper towels, clothing or alcohol-based disinfectants on the coated surfaces.
- Clean and disinfect the lens rim per facility protocol; do not autoclave unless labeled as autoclavable.

7. Maintenance and storage

- Store each lens in its place in the wooden case when not in use.
- Keep the case closed, dry and away from heat and direct sunlight.
- Inspect lenses regularly for scratches, chips or coating damage.
- Do not stack loose lenses together or store them outside the case.

8. Troubleshooting

Problem	Likely cause	What to do
Glare or reflections in the image	Lens perpendicular to the light, or illumination too bright	Tilt the lens slightly and reduce illumination as appropriate
Blurred or hazy image	Dirty lens surface	Clean the lens with lens tissue and optical cleaning solution
Image does not fill the lens	Lens held at the wrong distance	Move the lens slowly toward or away from the eye until the image fills it
Small field of view	Small pupil or poor alignment	Realign the light with the pupil; prepare the patient per clinical protocol
Persistent spots or streaks	Scratched or damaged coating	Stop using the lens and replace it

9. Disposal

- Dispose of damaged lenses as glass waste according to local regulations.
- Clean and disinfect before disposal if the lens may be contaminated.

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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