

20D Double Aspheric BIO Diagnostic Lens

Instructions for Use

Ophthalmic Diagnostic Lens

Intended use

Hand-held double aspheric condensing lens used with a binocular indirect ophthalmoscope to give a wide-field stereoscopic view of the fundus, retinal periphery and posterior pole. For diagnostic use only.

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.
- For diagnostic use only. Do not use for laser delivery.
- 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 ophthalmoscope illumination at the lowest level that gives an adequate view, according to clinical judgment.

2. Package contents

- 20D double aspheric lens
- Rigid protective safety case

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

3. Specifications

Lens power	20 D
Optics	Double aspheric glass
Field of view	46° static / 60° dynamic
Image magnification	3.13x
Laser spot magnification	0.32x
Working distance	50 mm
Coating	Multi-layer anti-reflection coating on both surfaces
Case	Rigid protective safety case
Variants	Varies by variant: Black, Blue, Golden, Green, Silver, Red

4. Unpacking and setup

- 1 Remove the lens from its case by the rim.
- 2 Check both surfaces for dust or smudges and clean if needed.
- 3 Set up the binocular indirect ophthalmoscope according to its own instructions.
- 4 Prepare and position the patient according to your clinical protocol.

5. Operation

Indirect ophthalmoscopy

- 1 Stand or sit at arm's length from the patient and direct the ophthalmoscope light into the pupil.
- 2 Hold the lens between thumb and forefinger, steadying your hand on the patient's forehead if needed.

- 3 Start with the lens close to the eye, then move it back until the fundus image fills the lens (about 50 mm from the eye).
- 4 Tilt the lens slightly to move reflections out of the field.
- 5 Ask the patient to look in different directions and move with the lens to examine the periphery.
- 6 Keep your eyes, the lens and the patient's pupil aligned throughout.
- 7 Return the lens to its case after use.

6. Cleaning and disinfection

- Do not touch the lens surfaces with fingers.
- Remove dust with a soft brush or puffer before wiping.
- The listing states the lens may be wiped with lens tissue and 70% isopropyl alcohol or an ophthalmic disinfectant wipe.
- For heavy soiling, use a mild soap solution and dry with a soft lens cloth.
- Do not use paper towels, clothing or abrasives; they can scratch the coating.
- Do not autoclave unless labeled as autoclavable.

7. Maintenance and storage

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

8. Troubleshooting

Problem	Likely cause	What to do
Reflections in the image	Lens held perpendicular to the light	Tilt the lens slightly
Blurred image	Dirty lens or lens at wrong distance	Clean the lens; move it slowly toward or away from the eye
Image does not fill the lens	Lens too close to the eye	Draw the lens back toward yourself until the image fills it
Field too narrow	Small pupil or poor alignment	Realign light, lens and pupil; prepare the patient per clinical protocol
Permanent marks in the image	Scratched lens 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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