

Prism Bar Set, Horizontal and Vertical, in Case

Instructions for Use

Ophthalmic Diagnostic Instrument

Intended use

Hand-held horizontal and vertical prism bars for measuring strabismus, phorias and fusional vergence, typically with the prism and cover test.

Intended users

For use by trained healthcare professionals (ophthalmologists, optometrists, orthoptists and supervised students). 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.
- Hold the bar in front of the eye without touching the eye or eyelids.
- Inspect prisms before use; do not use a bar with chipped or cracked prisms.
- Hold the bar firmly; dropping it can chip the glass.
- Take care with young children who may grab the bar.

2. Package contents

- Horizontal prism bar
- Vertical prism bar
- Protective case

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

3. Specifications

Horizontal bar values	1, 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 35, 40 prism diopters
Vertical bar values	1, 2, 3, 4, 5, 6, 8, 10, 12, 14, 16, 18, 20, 25 prism diopters
Prism material	Optical glass
Use	Hand-held
Case	Padded protective case

4. Unpacking and setup

- 1 Remove the required bar from the case.
- 2 Check the prisms are clean and undamaged.
- 3 Seat the patient and set up the fixation target at the test distance required by your protocol.
- 4 Make sure the patient is wearing their correction if required by your protocol.

5. Operation

Prism and alternate cover test

- 1 Perform a cover test first to find the direction of the deviation.
- 2 Choose the horizontal bar for horizontal deviations or the vertical bar for vertical deviations.
- 3 Hold the bar in front of one eye with the prism base oriented opposite to the direction of the deviation.
- 4 Alternately cover the eyes while the patient looks at the target.
- 5 Slide the bar to stronger or weaker prisms until no refixation movement is seen.
- 6 Record the prism value, base direction, eye and test distance.

Fusional vergence measurement

- 1 Have the patient view a single target with both eyes open.
- 2 Place the bar in front of one eye starting at the weakest prism.
- 3 Slowly move to stronger prisms while asking the patient to report blur or doubling.
- 4 Record the value at which blur, break and recovery occur, as required by your protocol.
- 5 Repeat with the base in the opposite direction if required.

6. Cleaning and disinfection

- Wipe prism surfaces with lens tissue and an optical cleaning solution.
- Do not use abrasives or rough cloths.
- Clean and disinfect the bar handle per facility protocol.
- Do not autoclave unless labeled as autoclavable.

7. Maintenance and storage

- Store both bars in the protective case after use.
- Keep the case dry and away from heat.
- Check regularly for chips, scratches or loose prisms.

8. Troubleshooting

Problem	Likely cause	What to do
Movement never fully stops	Deviation is between bar values	Record the nearest values or combine with a loose prism per your protocol
Patient reports blurred view	Dirty prism surface	Clean with lens tissue
Inconsistent readings	Bar held tilted or not in front of the pupil	Hold the bar upright and centered in front of the eye
Prism appears loose	Damaged bar	Stop using the bar and replace it

9. Disposal

- Dispose of damaged prism bars according to local regulations for glass and plastic waste.

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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