

HEINE retinoscope trainer

OPERATIONAL CONTROLS:

Sphere scale:

scale graduated in steps of 0,5 dpt (small scale marks) for reading the sphere setting

Pupil diameter:

Rotating wheel to select the „pupil diameter“ from 2 to 8 mm

Simulation of ametropia:

The level of the simulated ametropia can be selected by rotating the adjustable ocular fundus

Tabo scale (0 – 180°):

for reading the astigmatic axis

Lens holder:

Holder for lenses, especially for the simulation of astigmatism

Heavy, stable base

Tiltable mounting

INTENDED USE:

The model eye is intended as a training device for the techniques of retinoscopy using a construction which is optically very similar to the human eye. It provides the possibility to set spherical ametropia and to simulate astigmatic vision impairment by placing astigmatic trial lenses in front.

INSTRUCTIONS FOR USE:

1. Select or have the spherical ametropia selected usually without reading the result before measuring.
2. Select the pupil diameter, choose at the beginning 8 mm to allow easier measuring.
3. Take the retinoscope and usually a measuring lenses bar or the measuring lenses.

4. The retinoscope trainer is on the table. Ensure before and during the measuring that the light beam of the measuring instrument runs perpendicularly to the pupil's plane to avoid getting an inclined view and therefore an astigmatic error.
5. Now the retinoscopy can be carried out in accordance with the rules and the refraction can be determined. The measured values can be controlled with the help of the setting. The astigmatic axis is read with the help of the Tabo scale.
6. If a spherical lens is mounted, note that a plus-power lens moves the focal point closer to the eye model, thus it makes the result more myopic respectively less hyperopic. In the same way a mounted plus cylinder value produces a negative result with the minus cylinder axis position in the same direction. Therefore in this case plus cylinder lenses should be used as simulation lenses for a better (self) control. If a minus cylinder is used as simulating lens, the result is as follows: Sphere: the selected rear value plus the absolute value of the minus cylinder, astigmatic value equal to the value of the mounted lens, but as minus cylinder, axis perpendicular to the mounted simulation lens!

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We reserve the right to change specification without notice.

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