

Hertel Exophthalmometer

Part Number: 521500

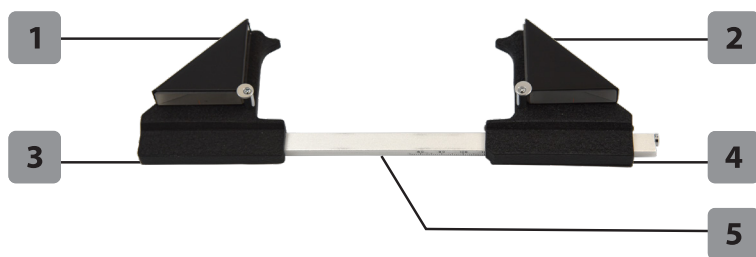
Technique Parameters

The range of exophthalmos: 0-35mm

The adjustment range of pupil distance: 80-120mm

The Function Basis and Structure

The Hertel Exophthalmometer is composed of left/right prisms, regular bracket, moving bracket, orbital margins, and so on.



1. - Left prism
2. - Right prism
3. - Moving bracket
4. - Regular bracket
5. - Orbital margins

This product can precisely determine the level of exophthalmia over the orbital margins. The function is based on the special structure, which is the isosceles right triangle, of the optical glass prism. Thus through which, both the vertex of the cornea and the scale of a millimeter can be fully reflected.

The inside of the isosceles right triangle ranges from 0mm to 35mm. There are red lines at the place of 18mm and the side which is in the isosceles right triangle respectively and they are helpful to aim at the correct position (Because of the distance between the scale of the millimeter and the vertex of the cornea, these red lines are to avoid the movement of parallax.)

There is also a range from 75mm to 125mm in the rail side, used to record the distance between both sides of orbital margins.

Operation Methods

While using, first let the regular bracket lean against the outside orbital margin of the right side, and then push the moving bracket to adjust the distance of orbital margins and close to the outside orbital margin of the left eye.

Second, let the examinee look forward, while the examiner moves his sight. When the two red lines of the prism are overlapped, the line of sight is vertical against the front of the prism.

Finally, the correct level of exophthalmia can be obtained from the result tested. The normal height is about 12-14mm over the socket of the eye of sides from the vertex of the cornea.

The distance temples are the sum that the distance of two pupils plus the distance between the pupil's centers of the orbital margins and the normal distance is about 100mm.

Maintenance

While using the ophthalmometer, keep lightly and avoid shaking the instrument which may cause the decline of accuracy.



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