**Double Luedde Exophthalmometer**

**Key Advantages:**
- Half the cost of Hertl
- Results comparable to Hertl
- Tested in University Clinic
- Simple operation

The Double Luedde Exophthalmometer is a low cost device to reliably measure the exophthalmos. It requires no special technique or skill. The Double Luedde has been tested in a University Clinic setting and demonstrated results comparable to the Hertl Exophthalmometer.

The purpose of any exophthalmometer is to measure the distance (exophthalmos) between the front most surface of the cornea compared to the external orbital canthus (orbital notch). The normal range varies between 12 mm and 21 mm and a difference between the eyes greater than 2 mm is considered significant. In the treatment of diseases affecting the exophthalmos, the instrument is used to track the degree of forward (or backward) displacement of the eye.

The Double Luedde, like the Hertl, is not recommended where the orbit or eye socket has been damaged. In these cases the use of the Naugle (which indexes from the cheek bone and forehead) is more appropriate.

Construction includes a sturdy metal backbone and two clear side scales that make measurement easy and quick. The head width adjustment includes a scale to permit repeatable setting of the distance from right to left orbital notch. Detailed instructions and storage case are included.

6572x Double Luedde with case and instructions

**Hertl Exophthalmometer**

The basis for exophthalmos determination using the Hertl version is the Outer Orbital Rim ( Orbital Wall) and the apex of the cornea. The integral refraction mirrors with millimeter scales for the left-hand and right-hand measuring halves of the Hertl Exophthalmometer are calibrated so that the zero mark on the scale will be located in the plane of the resting points of the supports. Supports are placed against the two Temporal Orbital Walls so that the Orbital Rim contacts the deepest point of the supports.

**Heavy Duty Hertl Exophthalmometer**

Heavy Duty Exophthalmometer has metal construction for many years of use. Overall dimensions are 25 x 7 x 2 cm. Weight is 216 grams (7.6 oz). Scale for orbital wall goes from 75 mm to 121 mm. The scale to measure the proptosis ranges from 0 to 35 mm. Includes a metal case and instructions.

5215R Heavy Duty Hertl Exophthalmometer

**Lightweight Hertl Exophthalmometer**

Sturdy construction for many years of use. Overall dimensions are 25 x 7 x 2 cm. Weight is 117 grams (4.1 oz). Scale for orbital wall goes from 75 mm to 121 mm. The scale to measure the proptosis ranges from 0 to 35 mm. Does not include case. Comes with instructions. Made in Germany by Oculus.

52400 Lightweight Hertl Exophthalmometer
**Luedde Exophthalmometer**

Designed for simplicity and accuracy in measurement of ophthalmos. Base is clear plastic with easy to read millimeter lines on both sides. Eye is seen through lower half of scale and the scale is then viewed through the upper half to eliminate parallax thus aiding in the rapid determination of protrusion. Clinical papers show superior results in spite of the simplicity of this device. The Luedde is indexed using the outer Orbital Rim (Orbital Wall). The length is 3 inches (9 cm).

**5220 Luedde Exophthalmometer**

**Naugle Exophthalmometer**

This superior and inferior orbital rim-based instrument measures the position of the globe accurately even after Lateral Orbitotomy e.g. post tumor removal or thyroid decompression. Delivers fast reproducible results of the highest precision. Provides the best patient comfort, thus increasing patient cooperation. Indexes corneal protrusion based on cheek and forehead contact points.

**Made in Germany by Oculus.**

**52401 Naugle Exophthalmometer**