MODEL OF THE HUMAN EYE

PRODUCT SHEET

Reference : OS-8477

The observed image appears on the retina
The model comes with adjustable focus lens
Ideal to study and actually model vision defects!
With this model of the eye respecting the biology of this organ, explore human sight!

Unlike optical models commonly used in physics, this model includes all the elements existing in an eye: retina, lens, cornea and pupil.

These elements can be modulated according to their role and their physiological positioning!
Thus, the retina can take three positions (one normal, two pathological) and different lenses can be used to model the lens. Only the cornea is fixed, like a real eye.

Using the modular lens, delve even deeper into physiology!
This is positioned instead of the lenses and can be filled with water using the syringe, to take a convex shape, or emptied, to take a concave shape.

Correct sight defects!
Using the lens set, watch the image improve directly on the retina.

Main Features:

- Dimensions of the eyeball: 15 x 17 x 10cm
- Focal length of the cornea in the air: 140 mm (+7.1 d)

Sordalab .com
15 Av. des grenots - 91150 Etampes
Tel. : +33 (0)1 69 92 26 72 - Fax : +33 (0)1 69 92 26 74 - Email : info@sordalab.com

- Three positions of the retina to explore: Myopia, hyperopia and normal vision.

The model comes with:

- a set of lenses
- 3 lenses that mimic human vision: normal vision, myopia, and astigmatism.
- 3 correction lenses: correction of astigmatism, hyperopia and myopia.
- a double pupil adapter (tight round pupil and cat pupil)
- an adjustable lens
  Adjustable focal length lens:
  This lens is the essential tool to most faithfully simulate the adjustment of the eye. A syringe adjusts the amount of water in the lens and thus modifies the curvature of the membrane and therefore the focal length of the lens.
  Delivered with 1 syringe and 2 lenses.