

Eye model

LABOTRIX OPTIC E2

PRODUCT PASSPORT

Kyiv

2026

1. Basic product information

- 1.1. Product name — Eye model.
- 1.2. Trademark — Labotrix.
- 1.3. Model — Optic E2; full trade name — LABOTRIX OPTIC E2.
- 1.4. Manufacturer — Labotrix Group Limited, China.
- 1.5. Intended use: Educational model of the human eye for studying anatomy and physiology in secondary education institutions. With the help of the model, students get acquainted with the structure of the eyeball, its main components and their function. The model is used in biology, anatomy and physiology lessons in science classrooms for demonstrations and practical classes.
- 1.6. Design features: The model is a realistic copy of an adult eye, enlarged approximately 3 times compared to natural size, mounted on a rotating stand. The model is divided by a sagittal section through the anterior and posterior poles, which allows you to observe the internal structure. Individual components of the eye (cornea, iris, lens, vitreous humor) are removable and can be removed for more detailed study. The model is made of impact-resistant plastic with realistic coloring. The scale of the model allows you to distinguish its main structures and their color designation from a distance of 5 meters from the last desk; small captions on the diagram poster and in the brochure are intended for close-up viewing.

2. Technical specifications

- Brand — Labotrix
- Model — Optic E2
- The article number is LTX-OPTIC-E2
- Type of manual — anatomical model of the human eye
- Scope of application - teaching anatomy and physiology in secondary education institutions
- The subject of research is the structure of the human eye, the location and function of the main structures
- Model type — collapsible demonstration model with rotating base
- The scale of the model is approximately 3 times larger than the natural size of the human eye.
- Model size: anteroposterior diameter of the eyeball (centimeter) - about 7
- Manufacturing material - impact-resistant plastic
- Making the incision — sagittal incision through the anterior and posterior poles
- Structures depicted — cornea, iris, pupil, lens, vitreous humor, retina, optic nerve, blood vessels
- Individual components are removable (iris, lens, vitreous humor)
- Base surface — matte, rotating

- Type of mounting on the base - free, allows horizontal rotation
- Model guides - illustrated structure notations, brief description of functions
- No need for a power source
- Operating temperature range (degrees Celsius) - from +5 to +40
- Operating conditions — premises of an educational institution, air temperature from +5 to +40 °C, relative humidity from 40 to 60 % without condensate
- Service life (year) — 5
- Warranty period (month) — 12

3. Equipment

- Eye model on a rotating stand — 1 pc.
- Upper half of the eyeball wall (removable) — 1 pc.
- Lower half of the eyeball wall — 1 pc.
- Cornea — 1 pc.
- Iris (removable) — 1 pc.
- Lens (removable) — 1 pc.
- Vitreous body (removable) — 1 pc.
- Rotating base with stand — 1 pc.
- Poster diagram with designation of eye structures — 1 pc.
- Brochure with a description of anatomical structures and their functions — 1 pc.
- Product Passport and Warranty Card — 1 pcs
- Individual packaging — 1 pcs

All removable components are securely attached and can be safely removed without the use of additional tools. The kit includes a detailed description of the structures of the eye in Ukrainian and recommendations for the teacher. The product is ready to use without additional training.

4. Safety measures

4.1. General requirements

- Before first use, read this passport and brochure carefully and keep them with the model and proof of purchase.
- The model is used under the guidance of a teacher or other trained adult.
- Students work with the model only under adult supervision.
- After unpacking, check all parts of the model for damage, manufacturing defects, or contamination.

4.2. Safety when working with modeling

- The model is made of durable materials, but can easily break if dropped from a height. Be careful; do not drop the model or subject it to strong impacts.
- When removing removable components, proceed carefully and methodically; do not use sharp objects or excessive force.

- Place the removed components on a protected surface; do not leave them on the edge of a table where they may fall.
- When rotating the base, make sure it moves freely; do not allow your fingers to get caught during rotation.

4.3. Cleanliness and hygiene

- The model is intended for demonstration purposes and does not directly contact human organs.
- All components can be wiped with a dry, clean cloth.
- When washing, use only warm water with a minimal amount of mild detergent.
- Do not immerse the model in water for quick cleaning.

4.4. It is strictly forbidden

- Disassemble the model except for removing the intended removable components.
- Do not attempt to repair damaged parts yourself; contact an authorized service center.
- Exposing the model to direct sunlight for long periods of time may cause the dye to fade.
- Do not store the model in damp areas or near heat sources.
- Use the model for purposes other than educational demonstrations.
- Allow young children to play with the model without adult supervision.

5. Preparation for work

- 5.1. Unpack the model and place all components on a clean table. Make sure that all parts are present according to the package list.
- 5.2. Wipe the model and all removable components with a dry, clean cloth to remove any packaging residue and dust.
- 5.3. Check the rotation base; gently rotate the model horizontally, making sure it moves smoothly.
- 5.4. Place the model on a hard, flat surface in a location protected from direct sunlight.
- 5.5. Place the poster diagram near the model for easy viewing by students.
- 5.6. Before first use, read the brochure describing the anatomical structures and their functions.

6. Procedure

6.1. Observation of the external structure of the eye

Orient the model so that students can clearly see the outer surface of the eye: the cornea, sclera, iris, and pupil. Rotate the model to demonstrate different viewing angles.

6.2. Removing the upper half of the wall

Gently lift the upper half of the eyeball wall; it should come off without any effort. Show students the internal structure: the retina, blood vessels, and nerve endings on the back wall.

6.3. Demonstration of individual components

Remove the removable components (iris, lens, vitreous humor) one by one. Demonstrate each part, explaining its anatomical function and location in a living eye.

6.4. Observation of the retina and optic nerve

The posterior wall of the eyeball shows the imprints of the retina, optic disc, macula, and blood vessels. Identify these structures and explain their function.

6.5. End of demonstration

Carefully replace all removable components. Make sure the top half fits snugly against the bottom half. Place the model in its original position.

7. Care, maintenance and possible malfunctions

7.1. Cleaning

- Wipe the outer surfaces of the model with a dry soft cloth or hydrophilic sponge.
- For minor dirt, you can gently wipe it with a soft damp cloth with a neutral detergent.
- Do not use abrasive powders, sharp objects, solvents or alcohol; they may damage the surface and the dye.
- Removable components are washed separately with special care.

7.2. Periodic control

- Once a month, check the integrity of all components for microcracks or deformations.
- Make sure that the rotating base remains in working order; if there is difficulty in rotating, contact the service center.
- Check the tightness of the upper half to the lower half; if necessary, lightly wipe the contact surfaces with a damp cloth.
- The model does not require lubrication or calibration by the user. Service is performed only by an authorized center.

7.3. Possible malfunctions and ways to eliminate them

Symptom	Possible cause	User actions
The top half is difficult to remove	Dust accumulation on the contact surface; plastic drying out	Carefully clean the contact surfaces with a damp cloth; remove with slow, smooth movements.
The top half doesn't fit snugly enough	Change in the shape of the material due to temperature; slight damage	Check the surface for deformation; store the model in more stable temperature conditions
Removable component broken	Drop or impact during removal	Stop using the component; order a replacement part from a service center.
The dye fades in some areas	Prolonged exposure to direct sunlight	Protect the model from direct sunlight; store in a shaded place.
The base does not rotate freely.	Damage to the rotation mechanism; dust accumulation	Try to clean the rotating area lightly; if there are significant difficulties, contact a technician.
Small parts have unclear markings	Fading of font on labeling	This does not affect functionality; use the brochure with a detailed description of the structures
The model breaks when dropped.	The plastic material is fragile.	Carefully treat the damaged area; significant fractures will require replacement of the entire model

8. Storage and transportation conditions

- Store the model in its original packaging or in a specialized container in a dry room at a temperature of +5 °C to +40 °C and a relative humidity of no more than 80%.
- Protect the model from direct sunlight, moisture, and temperature fluctuations, which can cause plastic deformation.
- Make sure the top half fits snugly against the bottom before storing.

- Place removable components (iris, lens, vitreous humor) separately in a protected compartment of the package.
- Do not place heavy objects on the packaging with the model.
- When transporting, use the original packaging or a similar rigid, cushioned container.
- Transport the model by any type of closed transport, avoiding mechanical shocks and vibrations.
- The storage period before commissioning is unlimited provided that the stated requirements are observed.

9. Warranty obligations

- 9.1. The warranty period of the product is 12 months from the date of sale specified in the warranty card.
- 9.2. The manufacturer guarantees that the product complies with the declared technical characteristics, provided that the rules for transportation, storage and operation set out in this passport are followed.
- 9.3. During the warranty period, product defects that have arisen due to the manufacturer's fault will be eliminated free of charge. The method of elimination (repair, component replacement or product replacement) is determined by the service center.
- 9.4. Warranty service is provided upon receipt of a correctly and completely filled out warranty card and a document confirming the fact and date of purchase.
- 9.5. The warranty does not apply to cases where the malfunction is caused by:
 - mechanical damage, in particular cracks, chips and deformation of the housing and of the components of the product;
 - violation of the operating, storage or transportation rules set out in this passport;
 - ingress of liquid or foreign objects into the product, and also the action of insects and animals;
 - independent disassembly, repair or modification of the product, in particular repair at unauthorized workshops;
 - use of the product other than for its intended purpose;
 - force majeure circumstances (fire, flood, earthquake, etc.).
- 9.6. The warranty does not apply to natural wear and tear of the coating and appearance of the product, as well as to consumables.

10. Product disposal

- The product must not be disposed of together with unsorted municipal waste. This is indicated by the marking in the form of a crossed-out container on the product or its packaging.
- After the end of the service life, hand the product over to a collection point for the corresponding waste or to an organization holding the appropriate permit.

- Hand over the packaging elements (cardboard, polymer materials) to the corresponding streams of recyclable materials.

Contacts

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Conditions of use and storage of the product

The product is intended for educational work in general secondary education institutions and is used only under the control and supervision of a teaching staff member; the recommended age of students — from 10 years, that is, students of grade 5 and of higher grades. Keep the product in a dry, clean and ventilated room at a temperature from +5 to +40 °C and relative air humidity up to 80 % without condensation, separately from heat sources and out of direct sunlight, moisture and dust. Use the product exclusively for its intended purpose and do not allow drops, impacts or other mechanical damage. If you notice damage, a crack or any malfunction, stop working with the product immediately and inform the teacher or the responsible person of the educational institution; repairing the product on your own is prohibited.

WARRANTY CARD

Product name:	Eye model
Product model:	LABOTRIX OPTIC E2
Serial number:	
Date of sale:	
Warranty period:	12 months from the date of sale
Trading organization:	
Signature of the seller:	

The goods have been received in working order, without visible damage, complete, and have been checked in my presence. I have no claims regarding the quality of the goods; I have read and agree to the operating and warranty service conditions.

Full name of the buyer

Buyer's phone number Buyer's signature

Dear Customer!

Thank you for choosing Labotrix products. After-sales service of this product is provided in accordance with the regulations of the company and the legislation of the country of sale. So that we can serve you quickly and without unnecessary formalities, check that this warranty card is filled in correctly at the moment of purchase and keep it together with the payment document throughout the entire warranty period. When applying for repair, hand the product over to the seller or to the service center together with the filled-in card.

Procedure for applying

1. The right to free warranty service for the product is valid for 12 months from the date of sale specified in the warranty card. Within this period, components that have failed due to a manufacturing defect are repaired or replaced without payment from the buyer.
2. Before contacting, make sure that the malfunction is not caused by the reasons listed in section 9 of this passport, and if possible, use the table of possible malfunctions in section 7.3.
3. After the 12-month warranty period, repairs are carried out for a fee; the cost of work and spare parts is determined depending on the nature of the malfunction.

Grounds for refusal of warranty service

The company reserves the right to refuse free service or to perform the work on a paid basis if at least one of the following circumstances is established:

- absence of the warranty card, its incomplete or corrected completion, and also the absence of a document confirming the purchase;
- non-conformity of the serial number of the product with the number specified in the card, or damage to the factory marking;
- traces of independent disassembly, repair or modification of the product;
- damage caused by violation of the operating rules, connection to an unsuitable power source or external mechanical impact;
- damage as a result of force majeure circumstances.

Service Records

Date of entry	Description of the malfunction	Work performed	Position, signature, full name of the responsible person