

Globe model "Parallels and Meridians of the Earth"

LABOTRIX GLOBE G2

PRODUCT PASSPORT

Kyiv

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1. General Information about the Product

- 1.1. **Product name** — Model globe "Parallels and meridians of the Earth".
- 1.2. **Trademark** — Labotrix.
- 1.3. **Model** — Globe G2; full trade designation — LABOTRIX GLOBE G2.
- 1.4. **Manufacturer** — Labotrix Group Limited, China.
- 1.5. **Intended use:** a tabletop model of the Earth globe, designed for demonstrating the degree grid and teaching work with geographic coordinates. The product shows parallels and meridians, the equator, the main geographic parallels (tropics and polar circles), and the prime meridian. The model is used in geography lessons when studying methods of representing the Earth, studying geographic coordinates, and in grades 5-11 for reviewing topics on the Earth's movements, illumination, and time zones.
- 1.6. **Design features:** a globe in the shape of a sphere with a degree grid applied to its surface. The axis is tilted at an angle of 66.5° to the plane of the stand, which corresponds to the tilt of the Earth's axis. The surface shows the continents, oceans, degree-grid divisions, and the names of the main parallels and meridians in Ukrainian. The sphere rotates freely on the stand.

2. Technical Specifications

- Brand — Labotrix
- Model — Globe G2
- SKU — LTX-GLOBE-G2
- Product type — tabletop model of the Earth globe with a coordinate scale
- Diameter of the sphere (millimeter) — 300-320
- Tilt of the axis to the plane of the stand (degree) — 66.5
- Rotation — free rotation around a fixed axis
- Language of the surface labels — Ukrainian
- Surface markings — degree grid (parallels and meridians), equator, tropics, polar circles, prime meridian, pole markings
- Electric power supply — not required (model without illumination)
- Language of marking and operating documentation — Ukrainian
- Product marking — trademark, model, and space for the inventory number on the stand
- Packaging — individual box of corrugated cardboard with the contents secured
- Documentation supplied — product passport with warranty card and operating manual
- Installation method — tabletop, on a flat surface of a demonstration or student desk
- Ready-to-use condition — supplied assembled, requires no preliminary setup
- Work organization — suitable both for frontal demonstration to the class and for independent work by a student at the desk
- Surface color scheme — continents, oceans and grid lines are rendered in contrasting colors for clear visual distinction

- 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. Package Contents

- Globe model, assembled (sphere on axis) — 1 pcs
- Stand (base) — 1 pcs
- Axis fastening elements (depending on version) — per the packing list
- Product Passport and Warranty Card — 1 pcs
- Individual transport packaging — 1 pcs

The exact package contents are given in the packing list. After unpacking, check that all items are present; keep the packaging and the box for storage and transportation.

4. Safety Precautions

4.1. General requirements

- Before first use, read the passport in full. Students work with the model only under the supervision of the teacher.
- Inspect the unpacked product for damage: the sphere must have no dents, cracks, scale wear, or scratches, and the stand — no chips.
- The model is intended for learning, not for play: do not throw the sphere, do not roll it on the table, do not force-spin it.
- Install on a flat, stable surface, no closer than 10 cm from the edge of the table, away from walkways and windows.

4.2. Working with the model and rotation

- Carry the globe with both hands, holding it by the stand and supporting the sphere from below; do not hold it by the axis.
- Rotate only the sphere itself, holding it near the equator with your palm. Never rotate it by the axis.
- Rotate smoothly, without jerks and without excessive force; do not spin it forcefully.
- Do not lean on the model, do not place heavy objects on the sphere and do not hang foreign objects on it.
- Point to lines and features with a pointer or the blunt end of a pencil, not with your finger — handprints are visible on the surface.

4.3. Protection from damage and heating

- Monitor the integrity of the sphere's surface and the legibility of the labels; burrs and wear spread quickly.
- Keep the model away from direct sunlight and heating: place it in a shaded area of the classroom, in a closed cabinet, or in its original box.
- Do not leave the globe on a windowsill, on the edge of a shelf, or on tables near a window.
- Do not place near heating radiators, heaters, air conditioners and other heat sources.

4.4. It is strictly prohibited

- Disassemble the model, modify the construction, or take apart the axis without permission.
- Immerse in water, wash under running water, in a bath, or in a dishwasher.
- Use alcohol, acetone, solvents, glass cleaners, chlorine-based agents, abrasive powders or hard sponges for cleaning.
- Write on the sphere with markers or pencils, or apply stickers without the manufacturer's permission.
- Rotate the sphere by pushing at the extreme points of the axis (the poles) — this may break the mount.

5. Preparation for Use

- 5.1. Unpack the model on a flat, clean surface, taking out the sphere with both hands and supporting it from below.
- 5.2. Check the completeness against the packing list and the passport; keep the box for transportation.
- 5.3. Inspect the sphere's surface for dents, cracks, chips, print wear, and scratches.
- 5.4. If the stand is supplied separately, assemble the model according to the passport: install the sphere into the sockets so that the axis is tilted and the sphere can rotate freely.
- 5.5. Check the rotation: hold the sphere near the equator and turn it a full revolution; the sphere must rotate smoothly without sticking.
- 5.6. Turn the model so that the North Pole is on top; this is a convenient position for most demonstrations.
- 5.7. Check the lighting: make sure the grid lines and labels are visible from any desk in the classroom; reposition the model if necessary.
- 5.8. Wipe off dust with a dry soft cloth.

6. Operating Procedure

6.1. Demonstration of the surface and geographic features

Place the model on the demonstration table in a position convenient for viewing. Ask the students to identify the continents and oceans, and to find Ukraine and other countries. Draw attention to how the globe conveys the shape of the Earth without distortion, unlike a map.

6.2. Showing the degree grid and main lines

Stretch a thread along a meridian from one pole to the other — students should see that meridians have the same length and converge at the poles. Show the equator as the longest parallel and the smallest "west — east" direction. Name the 0° line (prime meridian) and the 180° line.

6.3. Showing the main parallels

Stretch a thread along the northern and southern tropics, and then along the polar circles. Explain the geographic meaning: the tropics — the boundaries where the Sun is at its zenith; the polar circles — the

boundaries of the polar day and night regions. Draw attention to the tilt of the axis: this is what creates these boundaries.

6.4. Demonstration of geographic coordinates

Choose any point on the sphere. Find its parallel (latitude), count the degrees from the equator, determine the hemisphere (northern or southern). Then find its meridian (longitude), count from the prime meridian, determine the direction (eastern or western). Write down the coordinates following the example: 50° N, 30° E.

6.5. Finishing the work

Return the model to its initial position (North Pole on top); cover it with a dust cover if one is available. Remove the model from the table smoothly, do not roll the sphere.

7. Care, Maintenance and Troubleshooting

7.1. Cleaning

- Regularly wipe the sphere and the stand with a dry soft microfiber cloth.
- Remove visible soiling with a cloth very slightly moistened with clean water and wipe dry immediately.
- Use of alcohol, acetone, solvents, acidic and chlorine-based agents, abrasive powders and hard sponges is prohibited.
- Do not wash the model under water, and do not immerse it in liquid.

7.2. Periodic inspection

- At least once a month, check the integrity of the grid surface and the legibility of the labels.
- Check the rotation of the sphere: it must rotate smoothly without sticking.
- Maintain the axis mounting: the sphere must not wobble on the axis or slip off.
- The model does not require lubrication or other maintenance operations by the user; repairs are performed only by an authorized service center.

7.3. Possible malfunctions and methods of their elimination

Symptom	Possible cause	User actions
The sphere rotates stiffly or jams	Contamination at the axis points, axis bent from being rotated by the axis itself	Wipe dust from the axis area with a dry cloth; from now on, rotate only the sphere, not the axis
The sphere wobbles on the axis	The sphere's mount has loosened	Tighten the fastening in accordance with the passport of the product
The model stands unstably on the table	Uneven surface; deformed stand	Move it onto a level surface; check the supports of the stand

Symptom	Possible cause	User actions
Scratches or wear marks on the surface	Contact with sharp objects; washing with abrasives	Minor scratches — normal from use; deep ones require the unit to be taken out of service
The grid lines and labels are poorly visible from the classroom	Glare from the window; lighting too dark	Turn the model, or move the table; improve the lighting; show the lines with a stretched thread
Colors have faded, the scale has faded	Prolonged action of direct sunlight	Move it to a shaded location; fading is irreversible; use tables for recording data
Crack, chip on the sphere	Drop, impact, improper rotation	Withdraw the product from service; contact the supplier

8. Storage and Transportation Conditions

- Store in a dry enclosed room at a temperature of not below +5 and not above +40 °C, relative humidity up to 80% without moisture condensation.
- Protect from direct sunlight: place it in a shaded area of the classroom, in a closed cabinet with glass doors, or in its original box.
- Do not place it near heating radiators, heaters, air conditioners, or fans.
- The model can be positioned horizontally (lying down) or vertically on the stand, but not for long in a tilted position — this may lead to deformation.
- For transportation and long-term storage, pack the model in the factory box with soft material; do not place heavy items on the box.
- Do not stack boxes one on top of another, and do not place other teaching aids on the model.
- The storage period before commissioning is unlimited provided that the specified requirements are observed.

9. Warranty Obligations

- 9.1. The warranty period of operation of the product is 12 months from the date of sale specified in the warranty card.
- 9.2. The manufacturer guarantees that the product conforms to the declared technical specifications provided that the transportation, storage and operating rules set out in this passport are observed.
- 9.3. During the warranty period, defects of the product that have arisen through the fault of the manufacturer are remedied free of charge. The method of remedy (repair, replacement of a component or replacement of the product) is determined by the service center.
- 9.4. Warranty service is provided on presentation of a correctly and completely filled-in warranty card and of a document confirming the fact and the date of purchase.

9.5. The warranty does not cover 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 cover the natural wear of the coating and of the appearance of the product, nor consumables.

10. Product Disposal

- The product is not electrical or electronic equipment, therefore the marking in the form of a crossed-out container does not apply to it.
- After the end of the service life, the product is disposed of according to the rules established at the institution that operated it, with prior separation by materials.
- 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

Name:	Globe model "Parallels and Meridians of the Earth"
Product model:	LABOTRIX GLOBE G2
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 _____

Telephone of the buyer _____ Signature of the buyer _____

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 of the product is valid for 12 months from the date of sale specified in the warranty card. Within this period, components that have failed because of a manufacturing defect are repaired or replaced at no cost to the buyer.
2. Before applying, 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 subsection 7.3.
3. After the end of the 12-month warranty period, repairs are performed on a paid basis; the cost of the work and of the 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