

Document camera

LABOTRIX VISIO D1

PRODUCT PASSPORT

Kyiv

2026

1. Basic product information

- 1.1. Product name — Document camera.
- 1.2. Trademark — Labotrix.
- 1.3. Model — Visio D1; full trade name — LABOTRIX VISIO D1.
- 1.4. Manufacturer — Labotrix Group Limited, China.
- 1.5. Intended use: A digital document camera is a portable and reliable device for capturing and transmitting images of detailed objects during lessons, school events, and business presentations. A document camera is equipped with a high-resolution sensor and a powerful autofocus lens for clear display of small details, text, and drawings. The device is used in science and math classrooms, for document demonstrations, scanning materials, and videotaping educational tasks.
- 1.6. Design features: The device is mounted on a flexible tripod with a stable base, which ensures adaptability of the location and stability during operation. The folding design allows you to store the camera compactly and quickly deploy it when necessary. Equipped with a variety of ports (VGA, HDMI, USB) and the presence of an infrared remote control provide versatility of connection to various displays and projectors.

2. Technical specifications

- Brand — Labotrix
- Model — Visio D1
- The article number is LTX-VISIO-D1
- Device type — portable document camera with autofocus
- Image sensor — CMOS sensor, 8 megapixel
- Horizontal resolution — 1800 TV lines (HDMI and USB output)
- Zoom — 4x lossless, 7x digital, total magnification 30x
- Focusing method — automatic and manual modes
- White balance - automatic and manual
- Capture range is from A5 to A3, covering A4 and larger documents
- VGA output resolution - 1920×1080 at 30 frames per second, 1024×768 at 30 frames
- HDMI output resolution - 1920×1080 @ 30fps, 4K 3840×2160 @ 30fps (if 4K display is available)
- USB output resolution is 3840×2160 at 20fps or 1920×1080 at 30fps
- Digital image formats — JPG, BMP
- USB video stream format — MJPEG
- Image processing — black and white and color modes, negative, horizontal mirroring, text and general modes, brightness and sharpness adjustment, freeze frame

- Lens control - standard range infrared remote control
- Power supply — USB Type-C port, 5 volts, 2 amps
- Input interfaces — HDMI (1 piece) for connecting external signal sources
- Output interfaces — VGA (1 piece), HDMI (1 piece), USB 2.0 type B (1 piece)
- Dimensions when unfolded - 350 × 260 × 115 (millimeter)
- Folded dimensions - 350 × 310 × 115 (millimeter)
- Operating conditions — premises of an educational institution, air temperature from +5 to +40 °C, relative humidity from 40 to 60 % without condensate
- Language of marking and operating documentation — Ukrainian
- Product marking — trademark, model and a space for the inventory number
- Packaging for delivery — individual box of corrugated cardboard with the contents secured inside
- Installation method - on the teacher's desk, the tripod angle is adjusted manually
- Organization of work - intended for demonstrating materials to the class with the image output to a projector or panel
- Status indication - light indicator on the case shows standby and active operation mode
- User requirements - work with the device is organized by the teacher, students work under supervision
- Service life (year) — 5
- Warranty period (month) — 12

3. Equipment

- Visio D1 document camera — 1 pc.
- Type-C power adapter — 1 pc.
- Remote control — 1 pc.
- VGA cable for connecting to a projector or monitor — 1 pc.
- USB cable for synchronization with a computer — 1 pc.
- HDMI cable for digital connection — 1 pc.
- Document camera software compatible with Windows and Linux OS Teacher's PC - 1 set
- Product Passport and Warranty Card — 1 pcs
- Individual transport packaging — 1 pcs

Batteries for the remote control are not included and must be purchased separately.
The device does not require additional assembly before first use.

4. Safety measures

4.1. General requirements

- Please read this manual carefully before using it for the first time. Keep it with the appliance and your proof of purchase.

- The device is operated by a teacher or a designated adult who has been instructed in occupational safety. Students may use the device only under the direct supervision of a teacher.
- Do not start work until you are sure that all cables and the adapter are connected correctly and securely.
- Inspect the unpacked device for mechanical damage. Do not use a casing with cracks, bent edges, or a broken tripod.
- Make sure that there are no unauthorized persons around the device during the demonstration, especially children, who could knock over the tripod or block the lens.

4.2. Electrical safety

- Use only the power adapter provided by the manufacturer. Using other adapters may damage the device and cause injury.
- Do not use or store the device in humid environments, near water, in the rain, or near sources of moisture.
- Do not allow foreign objects or liquids to enter the device's ports and connectors, as this may cause short circuits, fire, and electric shock.
- Unplug the adapter from the outlet during long breaks in use and during thunderstorms.
- Do not disassemble the power adapter or attempt to repair it.

4.3. Lens and sensor safety

- Do not touch the lens and lenses with your fingers or foreign objects. Grease from fingers leaves fingerprints that degrade image quality. If necessary, clean the lens with special optical cleaning paper.
- Do not shine strong light directly at the lens, as extreme brightness can damage the sensor.
- Do not leave the device in direct sunlight for long periods of time.
- Be careful when adjusting autofocus; do not force the tripod mechanism beyond its range of motion.

4.4. It is strictly forbidden

- Leave the device unattended during preschool activities or in areas accessible to small children.
- Do not drop the device from a height or subject it to mechanical shocks and vibrations.
- Immerse the device in water, wash under running water or in the dishwasher.
- Heat the device on radiators, in hair dryers, or leave it in hot cars.
- Modify, disassemble, or replace internal components yourself.
- Direct the remote's infrared signals directly into the users' eyes.
- Do not use aggressive chemical solvents, alcohol or acetone for cleaning.

5. Preparation for work

- 5.1. Unpack the document camera and remove any protective covers, stickers, and film from all surfaces. We recommend that you keep the packaging for future storage and transportation.
- 5.2. Place the tripod on a flat, stable table surface so that the flexible arm is easily accessible and the base does not wobble under ambient pressures.
- 5.3. Connect the Type-C power adapter to the dedicated connector on the rear panel of the device and plug the adapter into a grounded outlet.
- 5.4. Wait until the red indicator light turns on (standby mode, power consumption less than 0.5 watts). This means the device is ready to be turned on.
- 5.5. Connect the required cables: HDMI, VGA or USB depending on the type of output device (projector, monitor or computer).
- 5.6. Check the focus level using the manual controls or the automatic function. The autofocus button is located on the control panel or remote control.
- 5.7. If the surrounding environment is colder than +5 °C, allow it to acclimatize for 1 hour at room temperature to avoid condensation on the lens.

6. Procedure

6.1. Turning on and focusing

- Press the power button on the control panel or remote control. The white indicator light will light up, indicating that the mode is active.
- Place the document or object you want to display directly under the lens at a distance of 10–50 centimeters (depending on the material and level of detail).
- Press the autofocus button; if the focus is inadequate, manually adjust it using the “NEAR” and “FAR” touch buttons on the remote control.

6.2. Zoom and brightness adjustment

- Use the TELE and WIDE buttons to set the desired zoom level. The maximum magnification of 30x allows you to see fine details.
- Use the “BRI–” and “BRI+” brightness adjustment buttons to adapt the image to the classroom lighting conditions.

6.3. Moving between output signals

- Press the “Source” button on the remote to switch between camera, VGA, HDMI, and other inputs without having to physically unpack cables.
- The output resolution is changed using the “Resol” button to optimize for the display type.

6.4. Recording and snapshots

- The “Snap” button allows you to take instant digital photos that are saved to your computer.

- The “Record” button starts video recording in 4K or 1080P formats depending on the settings; pressing it again stops recording.

6.5. Completion of work

- Press the power button to turn off the device. The indicator should change to red (standby mode).
- If you are away for a long time, unplug the adapter from the outlet.
- Make sure the lens is covered with a dust cap to protect it from contamination.

7. Care, maintenance and possible malfunctions

7.1. Cleaning

- Wipe the housing with a dry, soft cloth free from abrasive particles. If necessary, dampen the cloth with a solution of warm soapy water and wipe dry.
- Clean the lens with a special optional paper or a cotton swab dipped in pure alcohol, making gentle circular movements from the center to the edges.
- Gently wipe the ports and connectors with a dry brush to remove dust and debris.
- It is forbidden to use abrasive powders, pastes, chlorine and organic solvents.

7.2. Periodic control

- Check the cable connections every month for tightness and for any looseness in the tripod joints.
- Check image quality quarterly; if it deteriorates, clean the objective and lenses.
- The device does not require lubrication, calibration or other maintenance by the user. If any malfunctions are detected, contact an authorized service center.

7.3. Possible malfunctions and ways to eliminate them

Symptom	Possible cause	User actions
No power or picture	The adapter is not connected or the socket is faulty; the data cable is loose.	Check power, replace adapter or cable; try a different outlet
The image is blurry.	Lens is dirty; focal length is incorrect; material is far from lens	Clean the lens with special paper; press autofocus; place the subject closer
Low brightness	Insufficient lighting in the classroom; brightness setting is set to minimum	Improve lighting; press the “BRI+” button to increase brightness

Symptom	Possible cause	User actions
The remote control is not working.	Batteries are dead or installed incorrectly; interference from sunlight	Replace batteries; remove infrared light sources; reduce range
Incorrect color reproduction	White balance is set to manual; the subject has an unusual color	Press the auto white balance button on the panel; adjust manually
Errors when recording video	Insufficient USB transfer speed or memory full	Reduce recording time; use a faster computer or USB port

8. Storage and transportation conditions

- Store the device in a dry, closed room, maintaining the temperature not lower than +5 °C and not higher than +40 °C, with a relative humidity of up to 80% (at +25 °C) without condensation.
- Place the device in its original packaging or a similar rigid box, protected from mechanical shock, vibration, and falls.
- Protect the device from dust, direct sunlight, and exposure to aggressive chemicals and their vapors.
- Transport the device in any type of closed transport, with fasteners provided inside the box to reduce movement.
- Do not place heavy objects on the packaging or stack other bulky items.
- The storage period before commissioning is not limited, provided that the stated requirements are met.

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:	Document camera
Product model:	LABOTRIX VISIO D1
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