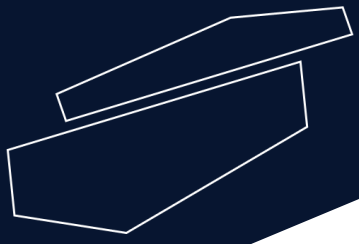
letslab®

DELIVERING LAB SOLUTIONS



UV TUBE TRANSILLUMINATOR

Please read the User Manual carefully before use, and follow all operating and safety instructions!



user manual

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User Manual

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UV TUBE TRANSILLUMINATOR

Preface

Thank you for purchasing our product. Users should read this manual carefully, follow the instructions and procedures, and beware of all the preventive measures when using this instrument.

Service

If help is needed, you can always contact your dealer or Letslab via www.letslab.com

Please, provide the customer service representative with the following information:

- Serial number
- Description of the problem
- Your contact information

Warranty

This instrument is guaranteed to be free from defects in materials and workmanship under normal use and service, for a period of 12 months from the date of invoice. The warranty is extended only to the original purchaser. It shall not apply to any product or parts that have been damaged due to improper installation, improper connections, misuse, accident or abnormal conditions of operation.

Safety Warnings and Guidelines

1. Important operation information of security

Before operation, please have a perfect conception of how to use the Instrument. Read this manual carefully before using it.

2. Security



Use the instrument only on grounded circuits.



When using the instrument, please wear appropriate protective dresses, such as gloves, UV goggles, UV protective clothing, etc. The company will not be responsible for UV injuries caused by improper operation.

The instrument and accessories should be placed in a clean, dry, ventilated, non-corrosive place and avoid direct sunlight.



During use, do not touch the device with wet hands to prevent electric shock.

Before cleaning or maintenance, please be sure to disconnect the power.



Before using it, please ensure that the UV protection plate is installed well and is strictly prohibited from contacting with liquids such as water to prevent the circuit inside from short circuiting.

Please take off the power when the instrument is not in standby.



Remove the foam material on both sides and place the transilluminator stably onto work area. Please ensure that the instrument is placed horizontally. The environment where the instrument is placed should be clean, dry, ventilated, non-corrosive and avoid direct sunlight.

⚠ If there is any violation of the above matters, the consequences shall be borne by themselves.

3. The maintenance of Instrument

The frequent use of instruments will inevitably cause different degrees of wear and abnormality. Therefore, the regular maintenance and troubleshooting of the instrument plays a decisive role to guarantee the instrument in normal working and extend the service life of the instrument. Please read the entire safety instructions before starting to maintain or clean the equipment.

a. Make sure that the power supply is disconnected before maintaining and cleaning the instrument.
b. When the instrument is not used for a long time, it should be placed in the original packaging box to prevent dust or moisture from affecting the normal use of the instrument.
c. Avoid direct touching between the instrument and water and other liquids, prevent entering the instrument, to cause short circuit.
d. When cleaning, please use a sponge or towel to wipe the paint surface and the transparent area. Rough or too wet cleaning cloth will damage the equipment.
e. The instrument shall be cleaned regularly with ethanol in a concentration of more than 70% and shall not be cleaned with corrosive liquid or detergent.

4. After Sale Service Commitment

A) Instructions of warranty

The company will replace the instrument within 1 month from the date of delivery of the product itself.

During the 2 years warranty period of the instrument, the company will provide warranty for non-human damage or faults caused by defects of the product itself. The warranty products shall be sent to the designated maintenance department by the company, and the user bears the cost of shipping back. The company will bear the freight of the instrument returning to the user.

For out of the warranty period and not covered by warranty scope, the company will charge the corresponding cost.

B) Scope of Warranty

Damage and normal use loss caused by accidental disasters, improper user use, wrong application, unauthorized maintenance or modification, do not fall within the above warranty scope.

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01 Introduction

The UV Transilluminator is mainly used for nucleic acid (DNA/RNA) gel electrophoresis results observation and gel cutting operation. Different wavelengths of UV light are used to detect DNA and RNA electrophoresis gel samples. This instrument is widely used in molecular biology, molecular genetics, medicine and health, biological products, agriculture and other life science research fields.

Features

- Special UV filter glass, with good permeability and high sensitivity.
- High-quality UV lamp tube, strong and uniform UV rays, and excellent fluorescence effect.
- Standard 302nm (optional 254nm or 354nm) UV wavelength lamp tube.
- Precise sealing structure effectively reduces the possibility of gel contamination and internal damage caused by leakage.
- The protection cover can be positioned arbitrarily within 0°~180° to ensure optimal UV protection.

02 Specifications

1. Operating Environment

The instrument is designed for schools, laboratories and factories for the following environments

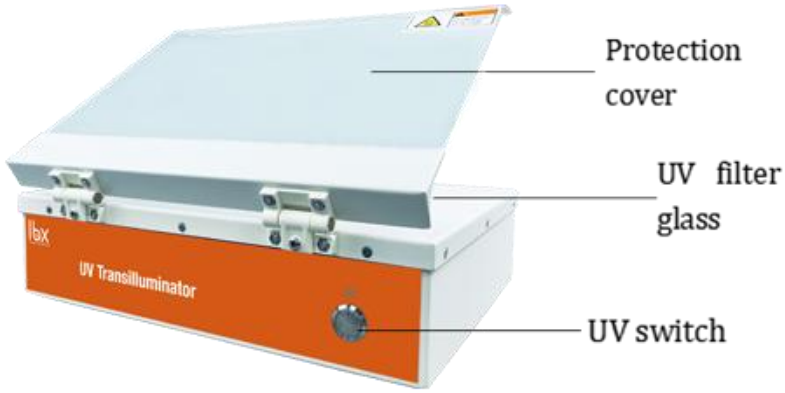
- The elevation does not exceed 2000 m
- Temperature ranging from 0℃ to 40℃
- Installation type: the product is designed to connect the indoor socket, and the voltage fluctuation does not exceed ± 10% of the normal value.
- The minimum distance between instrument room, instrument and wall is 100 mm

2. The basic parameters and function

Product	UV Tube Transilluminator
Observation area	L195mmxW145mm
Power	8Wx6
UV lifetime	>1,500h
Transmission wavelength	302nm (standard)
Dimension	L335xW265xH120mm
Weight	5kg
Power supply	110V/220V;50/60HZ

3. Product Structure





03 Operation Guide

1. Preparation

- Open the outer package, foam wrap the instrument, take out carefully.
- Remove the foam material on both sides and place the transilluminator smoothly in the operating area. Make sure the instrument is placed horizontally. The environment of the instrument should be clean, dry, ventilated, noncorrosive and avoid direct sunlight.
- Remove the protective cotton between the UV protective cover and the cutting platform.

2. Operation Instruction

1) Wear protective equipment such as gloves, UV goggles, and UV protective clothing.
2) Place the instrument on a horizontal workbench.
3) Plug in the plug and turn on the power.
4) Place the gel to be observed after electrophoresis in the observable area of the workbench.
5) Adjust the angle of the UV protection plate to the best observation state.
6) Turn on the power switch button of the gel cutter host.
7) After observing the sample, turn off the instrument.
8) Use anhydrous ethanol to clean the UV filter area to ensure that the area is clean and dry.

Failure Analysis and Handling

Problem	Possible cause	Solution
Power failure	1. The power supply voltage is abnormal. 2. The main power switch is not turned on. 3. Damaged power cord	1. Replace power outlet. 2. Turn on power switch. 3. Replace power cord
UV light cannot light	UV light failure	Replace UV light

Attachment A – Pack List

No.	Item	Unit	Qty
1	UV Transilluminator	unit	1
2	Power cord	pcs	1
3	Certificate of conformity	pcs	1

Nota importante para los aparatos electrónicos vendidos en España

Instrucciones sobre la protección del medio ambiente y la eliminación de aparatos electrónicos:



Los aparatos eléctricos y electrónicos marcados con este símbolo no pueden ser eliminados en forma de residuos urbanos.

De conformidad con la Directiva 2012/19/UE, los usuarios de la Unión Europea de aparatos eléctricos y electrónicos, tienen la posibilidad de devolver sus RAEE para su eliminación al distribuidor o fabricante del equipo después de la compra de uno nuevo. La eliminación ilegal de aparatos eléctricos y electrónicos es castigada con multa administrativa.

Remarque importante pour les appareils électroniques vendus en France

Informations sur la protection du milieu environnemental et élimination des déchets électroniques :



Les appareils électriques et électroniques portant ce symbole ne peuvent pas être jetés dans les décharges.
En réponse à la règlementation, Labbox remplit ses obligations relatives à la fin de vie des équipements électriques de laboratoire qu'il met sur le marché en finançant la filière de recyclage de ecosystem dédiée aux DEEE Pro qui les reprend gratuitement (plus d'informations sur www.ecosystem.eco).
L'élimination illégale d'appareils électriques et électroniques est punie d'amende administrative.

Nota importante per le apparecchiature elettroniche vendute in Italia

Istruzioni sulla protezione ambientale e sullo smaltimento dei dispositivi elettronici:



Le apparecchiature elettriche ed elettroniche contrassegnate con questo simbolo non possono essere smaltite come rifiuti urbani.
In conformità con la Direttiva 2012/19 / UE, gli utenti dell'Unione Europea di apparecchiature elettriche ed elettroniche hanno la possibilità di restituire i propri RAEE per lo smaltimento al distributore o al produttore di apparecchiature dopo averne acquistato uno nuovo. La rimozione illegale di apparecchiature elettriche ed elettroniche è punibile con una sanzione amministrativa.

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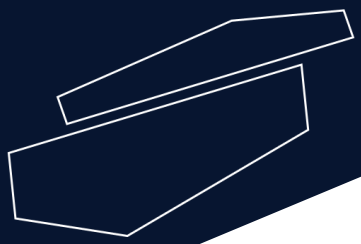

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