

WUV



UV Transilluminator

Operating Manual

written for
WUV-L10/-L20/-L50/-M10/-M20

witeg Labortechnik GmbH

Contents

1 Introduction	3
2 Safety Instructions	3
2.1 Description of symbols	3
2.2 Instructions	3
3 Packing contents.....	5
4 Product description	5
4.1 Key features	5
4.2 Operating surface	6
5 Positioning the device and commissioning.....	6
6 Operation	6
7 Maintenance and cleaning.....	7
8 Troubleshooting Guide	7
9 Technical data.....	7
10 Certificate.....	8

1 Introduction

Thank you for purchasing our **WUV Transilluminator**. You did a good choice buying a **Wisdom** product.

Before use, please read this manual and use it properly.

To cover the user's health and avoid the product's destruction you have to follow the safety instructions of the second chapter.

Please keep this operating manual in a save place for future reference and hand it out if you consign the device to a third person.

Witeg reserves to modify the capsule or make amendments for the improvement of quality and efficiency without prior notice.

2 Safety Instructions

2.1 Description of symbols



WARNING

Information for avoiding injuries or fatal accidents.



ATTENTION

Safety instruction to avoid a damage of the product.



ATTENTION

Information about technical parameters.



Environment

Information about the operating environment.



WARNING of explosions

Safety instruction to avoid explosions.



ATTENTION to high temperatures

Instructions to avoid injuries caused by high temperatures.



Proximity Caution

Keep clear of the product during use.

2.2 Instructions

For a safety and faultless using of the device it is indispensable that you read the following instructions purposely and follow them by the use.



- Connect the device only to the suitable power supply. Please have a look to the identification plate.
- Use the device only in electric circuits with ground fault circuit interrupter.
- Check the power supply cord before you stick it into the electrical outlet.
- Do not use power bars to extend the power supply cord.
- Only use extension cables with sufficient cable cross section.
- Do not touch the device with wet hands during the usage because this might cause an electrical shock.
- If unexpected sound, smell or smog is generated by the device, pull out the main plug and contact the manufacturer or your supplier immediately.
- Disconnect the power supply plug before cleaning or maintenance.
- If you use radiation or contaminated samples the responsibility is only up to you.
- **Do not see transilluminator filter directly when it turn on. UV is harmful to your eye and all of your skin.**
- **It can be causation of cancer more over. So please have to cover by installed cover block or take a UV protect goggle when you handle UV light.**
- **Always be clear filter by 70% ethanol at least. Normally DNA gel use with EtBr dye for DNA dying. It is a heavy carcinogen.**
- **When you work, you have to notice contaminating it to other things. and When you finish work, You have to clean surround. And wash your hands completely.**



- Pay attention if you open the door, hot air is coming out.
- Do not put heat-sensitive items at the device.
- Do not clean the hot device.



- Reparations and amendments should only made by **witeg** authorized people. Contraventions exclude the warranty.



- Use this device only if you read the whole safety instructions.
- This device should only used by persons who are familiarized with safety instructions made for laboratories.
- Pay attention that no liquid reach the controller or inward of the capsule.
- You have to keep the device clean if you want to get a longer life of it.
- Wear corresponding protective work clothing during the usage.
- All circuits and electrotechnical components are **witeg** owned technology. In fact of this it is necessary that only **witeg** authorized personal repair the device.
- Pull out the power cable if you didn't want to use the device for a longer time.



- It is important that the device stands up on a horizontal and firm subsurface to avoid vibrations.
- Make sure that the device cannot slip away.
- To avoid heat congestion or fires make sure that there is enough space for air circulations.
- Avoid direct solar radiation.
- Do not use the device near highly combustible materials.
- Do not set the device outdoors.
- It is superiorly to set the device in a good illuminated place to avoid accidents engendered by handling errors.
- To set the device in wet or dusty places could cause overheating, short circuits or fires.



- Do not use this device in area with potentially explosive atmosphere.



- This symbol indicates the user must be kept away while operation.

3 Packing contents

quantity	denomination
1	WUV Transilluminator
1	power supply curt
1	operating manual

4 Product description

4.1 Key features

WUV Transilluminator are useful for DNA and RNA work such like. Molecular Biology, Convenience and safety in use is considered in developing and manufacturing this product.

Key features are as follows:

- Low Cost, Robust, Versatile
- Long-life electronic (low heat, no flickering)
- Stainless-Steel frame and Robust steel housing
- Increased UV intensity and homogeneity
- Used for standard gel documentation, and also for preparative work
- Can be used in both EtBr and SyBr bands or for Quantitative analysis
- UV Protection shield, Recessed Switched, Stainless-steel Frame
- Moveable Face Protection Shield

4.2 Operating surface



Lamp Select:

WUV-L50:

- Wave Length select: 312nm – 312nm and 365nm – 365nm

WUV-L10 and WUV-M10 for 365nm, WUV-L20 and WUV-M20 for 312nm:

- Lamp Intensity control : 70% and 100%

5 Positioning the device and commissioning

1. Follow especially the safety instructions marked with following symbol: 
2. Remove the package carefully.
3. If there are any unexpected transport damages, please inform your forwarder and your customer service.
4. Before you connect the device with the electrical outlet, please let some time laps until the device is acclimatised.
5. Make sure that you follow all safety instructions.
6. Connect the device with the power outlet.
7. Switch the device on.

6 Operation

- Open safety UV block cover and then let one sample to filter for UV.
- Be careful split running buffer of EtBr dying solution to another position. If you split it out. You have to clean by 70% ethanol immediately.
- **Close safety UV block cover and then Turn on the Main Power Switch. Do not open safety UV block cover and Do not see UV filter directly. It can be serious damage to eye and skin. Also can get cancer in eye and skin.**
- Select wave length (WUV-L50 model : 312nm – 312nm and 365nm – 365nm) or select intensity of UV (75% or 100% in WUV-L10, L20, M10, M20 model).
- After check DNA sample, **Turn off the Main Power Switch. If you turn on the UV lamp for long time, DNA will be destroy and DNA gel will be dry by temperature.**
- Open safety UV block cover and then remove it carefully.
- Be clear filter for UV by 70% ethanol completely.
- **If you contaminated by running buffer or EtBr dying solution. You have to clean.**

7 Maintenance and cleaning

- Please read the whole safety instructions before you start to maintain or clean the device.
- Pull the power plug out of the electrical outlet.
- Only use care cleaning agents and soft cleaning rags.
- Organic lotions, strong chemicals and rough cleaning rags can damage the device.
- Always be clear filter by 70% ethanol at least. Normally DNA gel use with EtBr dye for DNA dying. It is a heavy carcinogen.
- If you not want to use the device for a long time, pull of the power plug and keep it dry in the package.
- Only use original spare parts.

8 Troubleshooting Guide

Situation	Confirmations and Solutions
Power Failure or Not Illuminating	<ul style="list-style-type: none"> ✓ Check the supplied voltage is present. ✓ Check the power connection and the power cord for proper connection and integrity. ✓ Check if the MAIN Power Switch is "ON". ✓ It can be UV lamp was dead. Please call technical service.

If other problems arise, or one of the above not solves problems, please contact your official agent or the manufacturer.

Reparations and amendments should only made by **witeg** authorized people. Contraventions exclude the warranty.

9 Technical data

Wave Length & Model	Single 365 nm "WUV-L10"	Single 312 nm "WUV-L20"	Dual 365+312 nm "WUV-L50"	Single 365 nm "WUV-M10"	Single 312 nm "WUV-M20"
Features	Standard Case-type			Compact Case-type	
UV Lamps	15W x 6ea (90W)			8W x 6ea (48W)	
Power Consumption	95 W			52 W	
Filter Size (mm)	200 x 200 mm				
Dimension	495 x 330 x h95 mm			350 x 275 x h95 mm	
Weight				8 kg	
Packing Size (mm) & Gross Weight (kg)	520 x 380 x h220 mm, 12 kg			380 x 320 x h220 mm, 10 kg	
Power plug type	Hybrid E+F				
Power Supply*	AC 230V, 1N~, 50/60Hz				

10 Certificate

Certificate

for



The quality and all features were checked by the manufacturer before the shipment.

We grant from date of purchase

two years guaranty.

This certificate excludes damages by natural disasters or incorrect usages by the customer.

Please look on your account and complete following table:

Article	WUV Transilluminator
Typ	
Serialno.	
Date	

witeg Labortechnik GmbH

Am Bildacker 16
D-97877 Wertheim
TEL: +49-9342-9301-0
FAX: +49-9342-9301-77
Email: info@witeg.de
www.witeg.de

