

Visi-Blue™ Transilluminators

Instruction Manual



UVP, LLC
2066 W 11th Street, Upland, CA 91786
Tel: (800) 452-6788 / (909) 946-3197
Fax: (909) 946-3597

Ultra-Violet Products Ltd.
Unit 1, Trinity Hall Farm Estate,
Nuffield Road Cambridge CB4 1TG UK
Tel: +44(0)1223-420022 / Fax: +44(0)1223-420561

Web site: www.uvp.com

Visi-Blue is a trademark of UVP, LLC.

81-0250-01 Rev A

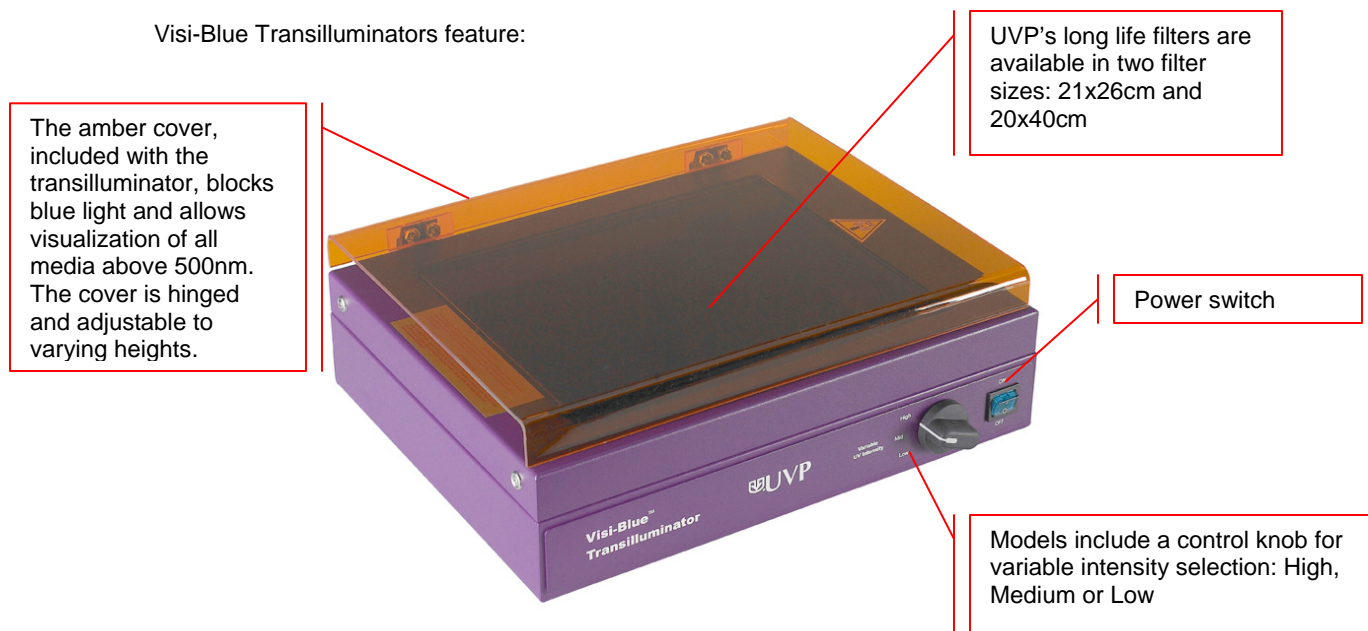
Introduction

Introduction

The Visi-Blue™ Transilluminators convert 365nm UV to 460-470nm blue light emitting no harmful UV energy. Visi-Blue Transilluminators are designed for use with GelStar®, GFP, SYBR® green, Vistra Green, SYPRO® Orange and Ethidium Bromide stains. As compared to UV, the blue light can transmit through almost any transparent (plastic, glass, acrylic, etc.) laboratory equipment. This is essential when monitoring and detecting DNA migration and Protein expression in “real time.” When used in imaging applications, use the proper photographic filter to eliminate/reduce the background. The amber colored cover blocks blue light transmission and allows visualization of all media above 500nm.

A Word of Caution: Even though this cover blocks the ultraviolet radiation emitted by the unit, UV Blocking Eyewear should be worn as well.

Visi-Blue Transilluminators feature:



Specifications

Visi-Blue Transilluminators are designed with **variable intensity settings**. Units are equipped with an electronic ballast. This manual covers the VB-26V and VB-40V models.

VB-26V Dimensions: 14"W x 11"D x 4.8"H (356 x 279 x 122mm) Height includes cover

VB-40V Dimensions: 19.13" W x 13.25" D x 5.63" H (486 x 337 x 143mm) Height includes cover

Model	Part Number	Wave-length	Volts/Hz	Filter Size	No. of Tubes	Intensity Style
VB-26V	95-0461-01	460-470nm	100-115V/60Hz	21 x 26cm	4 x 8W	Variable
VB-26V	95-0461-02	460-470nm	230V/60Hz	21 x 26cm	4 x 8W	Variable
VB-40V	95-0433-01	460-470nm	100-115V/60Hz	20 x 40 cm	4 x 25W	Variable
VB-40V	95-0433-02	460-470nm	230V/60Hz	20 x 40 cm	4 x 25W	Variable

Transilluminator Operation

Set-Up

- Place the transilluminator on a level work surface. Be sure that an air space exists around the bottom of the work surface. This space allows for the proper air circulation through the unit.
- Plug the female end of the power cord into the transilluminator. For 230 volt models, or those requiring special power cord connectors, ensure that the proper configuration of male connector or plug is properly connected to the power cord.
- Plug the male end of the power cord into a properly grounded electrical outlet. The proper voltage of the transilluminator is found on the product information label.
- The transilluminator may be equipped with a UV Blocking Cover. Remove the brown protective paper from the cover. Insert the bracket pins on the cover into the holes on the front of the transilluminator. The cover is adjustable to varying angles for access to the filter surface.

Using the Transilluminator

Place gel/sample on the filter area. It is recommended to place the gels on a Gel-Tray to protect the filter surface from cuts and scratches. It is recommended that gloves be worn to prevent contact with gel and staining agents.

Press the ON/OFF switch to ON. The UV tubes within the unit will glow beneath the filter.

Use the variable intensity settings as follows:

- **High:** allows for UV excitation of fluorophores on gels for routine photography and for excitation of gels with low sample concentration
- **Medium:** Excellent for viewing and quick single-band excision
- **Low:** Allows for positioning and preparation of gels, excising multiple bands and focusing for photography

After viewing/photographing the sample, turn the transilluminator off.

Cleaning and Care of the Transilluminator

Clean unit surface with a damp soft cloth or sponge. Never use abrasive cleaners which can damage the filter surface.

To protect the filter glass and minimize moisture and liquids on the glass, it is recommended that you use a UV transmitting Gel-Tray. Refer to the Replacement Parts for ordering information.

Replacing Tubes in the Transilluminator

1. Disconnect the transilluminator from the electrical supply.
2. Remove the filter cover: Use a Phillips head screwdriver to remove the four screws on the sides of the unit. Lift the filter cover off the unit.
3. Remove the reflectors on the left and right side of the unit: Slide the reflectors up out of the unit.
4. Remove the tube: Carefully rotate the tube and slide out of the socket. Replace with a new tube by sliding the tube into the socket and rotating into place.
5. Insert the reflectors back into place and reattach the filter cover.

Maintenance/Repair/Technical Assistance

Replacement Parts/Accessories

For replacement parts or components not shown here, please call UVP Customer Service or place of purchase. Please have the transilluminator model number available when you call.

<u>Replacement Part Description</u>	<u>Part Number</u>
Filter Assembly (VB-26V)	38-0313-06
Filter Assembly (VB-40V)	38-0215-01
Cover, Amber (VB-26V)	19-0170-02
Cover, Amber (VB-40V)	19-0171-01
Tube, 8 Watt, 365nm midrange UV (VB-26V)	34-0031-01 – Qty 4
Tube, 25 Watt, 365nm longwave UV (VB-40V)	34-0060-01 – Qty 4
Ballast, electronic, universal voltage, 8 watt (VB-26V)	42-0067-01
Ballast, electronic, universal voltage, 25 watt (VB-40V)	42-0067-02
Fuse, 2 amp, 250V, Slo-Blo (all voltages)	56-0002-01 – Qty 2

<u>Accessories Description</u>	<u>Part Number</u>
Gel-Ruler, UV Fluorescing	85-0003-01
Gel-Cutter	85-0002-01
Gel-Scooper	85-0006-01
Gel-Tray, UV Transmitting, Sm. 11.5"W x 9"D (29 x 23cm)	85-0007-01
Gel-Tray, UV Transmitting, Lg. 16.5"W x 10.5"D (42 x 27cm)	85-0005-01
Spectacles, UV Blocking	98-0002-01
Goggles, UV Blocking	98-0002-02
Faceshield, UV Blocking	98-0002-04

Technical Support

Note: A **Returned Goods Authorization (RGA) number** must be obtained from UVP Customer Service before returning any product.

UVP offers technical support for all of its products. If you have any questions about the product's use or operation, please contact UVP's offices at the following locations.

If you are located in North America, South America, East Asia or Australia:	If you are located in Europe, Africa, Middle East, or Western Asia:
UVP, LLC 2066 W. 11 th Street, Upland, CA 91786 (800) 452-6788 or (909) 946-3197 Fax: (909) 946-3597 Email: info@uvp.com	Ultra-Violet Products Ltd Unit 1, Trinity Hall Farm Est., Nuffield Rd Cambridge, CB4 1TG UK +44(0)1223-420022, Fax: +44(0)1223-420561 Email: uvp@uvp.co.uk

Warranty

UVP, LLC. warrants its Ultraviolet Transilluminators to be free of defects in materials and workmanship for a period of two (2) years from date of purchase. The foregoing warranty of UVP shall be of no force and effect if buyer has modified or damaged the product. Tubes and filters are warranted for 90 days.

All warranties or merchantability and fitness for any purpose and all other warranties, expressed or implied, except those expressly set forth herein, are deemed waived and excluded.

UVP's duty under the warranty is limited to replacement and/or repair of the defective part at the option of UVP, LLC. UVP shall not be liable for any expenses or damages incurred by the purchaser except as expressly set forth herein, and in no event shall UVP be liable for any special, incidental or consequential damages of any kind. This warranty does not supersede any statutory rights that may be available in certain countries.