

# Transilluminators

All UVP transilluminators provide back-illumination of transparent fluorescent materials. UV Transilluminators are equipped with an UV blocking cover to shield the user from UV. The transilluminator base is painted with a high-quality, scratch-resistant powder coat. Models include either a stainless steel top assembly or powder coat paint.

## FirstLight® Uniform UV Illuminator

The **FirstLight** represents a unique, highly uniform 302nm UV excitation source for quantitative fluorescent imaging in a wide range of applications.

- Produces <5% coefficient of variance (CV) across the full filter area
- Exceptionally uniform, edge-to-edge illumination
- Accurate gel-to-gel comparisons
- Uniformity ensures consistent illumination over the imaging surface, resulting in high quality images



*FirstLight UV Illuminator with its unique design (patented) provides uniform UV illumination, which is critical for accurate quantitative analysis*

Achieve accurate and reproducible RNA and DNA protein results. The FirstLight emits 302nm UV excitation and combines with a patented phosphor coating configuration to generate exceptionally uniform UV illumination over each band and lane. Multiple gels may be placed on the surface with assurance of uniformity for each gel.

**Additional Wavelengths:** When other wavelengths are required for fluorescence of various stains, optional plates convert the transilluminator's 302nm to 365nm, 460-470nm or white light. See page 27 for **converter plates**.

FirstLight and 3UV models are patented and available only from UVP!

### Ordering Information

<b>FI-26X</b> , 302nm UV Filter Size 25 x 26cm	95-0364-01 (115V)
	95-0364-02 (230V)
<b>FI-20</b> , 302nm UV Filter Size 20 x 20cm	95-0365-01 (115V)
	95-0365-02 (230V)
<b>FI-26</b> , 302nm UV Filter Size 21 x 26cm	95-0366-01 (115V)
	95-0366-02 (230V)

**Dimensions:** 11D x 14W x 5.63H in. (279 x 356 x 143mm)  
Height includes UV blocking cover

## Benchtop UV Transilluminators

**Benchtop Transilluminators** are equipped with 8-watt tubes and a variety of filter sizes.

### 3UV™ Benchtop Models



*Unique 3UV benchtop models include 254, 302 and 365nm UV wavelengths in one unit.*

### Replacement Tubes (for Benchtop models)

Tube, 8-watt, 254nm UV	34-0007-01
Tube, 8-watt, 302nm UV	34-0042-01
Tube, 8-watt, 365nm UV	34-0006-01

UVP's patented **3UV Benchtop Transilluminator** allows selection of 8-watt longwave, midrange or shortwave in one compact unit.

- View gels using longwave UV for extended periods of time, reducing photonicking damage
- Switch to 302nm to increase the fluorescence for photodocumentation
- Use shortwave to irradiate samples
- Compact size is an alternative to larger High Performance UV Transilluminators
- Stainless steel filter assembly

### Ordering Information

<b>LMS-20</b> Single Intensity 254/302/365nm UV Filter Size 20 x 20cm	95-0417-01 (100-115V)
	95-0417-02 (230V)
<b>LMS-26</b> Single Intensity 254/302/365nm UV Filter Size 21 x 26cm	95-0414-01 (100-115V)
	95-0414-02 (230V)

**Dimensions:** 11D x 14W x 5.4H in. (279 x 356 x 137mm) Height includes UV blocking cover.

## 2UV™ Benchtop Transilluminators

The **2UV models** allow users to switch between 302nm and 365nm UV wavelengths in one unit.

- A single intensity setting and 8-watt UV tubes
- Select from 20x20 or 21x26cm filter areas

### 2UV Models - Ordering Information

<b>LM-20</b> Single Intensity 302/365nm UV Filter Size 20 x 20cm	95-0449-01 (100-115V) 95-0449-02 (230V)
<b>LM-26</b> Single Intensity 302/365nm UV Filter Size 21 x 26cm	95-0459-01 (100-115V) 95-0459-02 (230V)
<b>LS-26</b> Single Intensity 254/365nm UV Filter Size 21 x 26cm	95-0566-01 (100-115V) 95-0566-02 (230V)

## Single Intensity and Variable Intensity Benchtop Models



**Variable Intensity Models** feature adjustable intensity with selection of high, medium and low settings.

### Replacement Tubes

Tube, 8-watt, 254nm UV	34-0007-01
Tube, 8-watt, 302nm UV	34-0042-01
Tube, 8-watt, 365nm UV	34-0006-01

## Mini Benchtop Transilluminator



**Mini benchtop M-10E** is an economical transilluminator using 6-watt, 302nm tubes. This model is excellent for educational purposes.

### Dimensions:

7.25D x 10.25W x 4.5H in. (184 x 260 x 114mm) Height includes UV blocking cover. Weight: 7.7 lb. (3.5 kg)



**3UV, 2UV, Single UV and Variable Intensity Benchtop models** (except Mini) feature increased performance and efficiency with an electronic ballast. This design produces higher UV intensity and uniformity plus instant start up.

Benchtop models include the economical, compact **single intensity and variable intensity transilluminators** which are equipped with 8-watt, 302nm UV tubes. The variable intensity models feature:

- **High** setting allows UV excitation of fluorophores on gels for routine photography. Also excites gels with low sample concentration.
- **Medium** intensity setting is excellent for viewing and quick single-band excision.
- **Low** setting is used for positioning and preparation of the gel, excising multiple bands and focusing for photography purposes.

### Single & Variable Models - Ordering Information

<b>M-15</b> Single Intensity 302nm UV, Filter 15 x 15cm	95-0455-01 (100-115V) 95-0455-02 (230V)
<b>M-15V</b> Variable Intensity 302nm UV, Filter 15 x 15cm	95-0456-01 (100-115V) 95-0456-02 (230V)
<b>M-20</b> Single Intensity 302nm UV, Filter 20 x 20cm	95-0447-01 (100-115V) 95-0447-02 (230V)
<b>M-20V</b> Variable Intensity 302nm UV, Filter 20 x 20cm	95-0452-01 (100-115V) 95-0452-02 (230V)
<b>M-26</b> Single Intensity 302nm UV, Filter 21 x 26cm	95-0457-01 (100-115V) 95-0457-02 (230V)
<b>M-26V</b> Variable Intensity 302nm UV, Filter 21 x 26cm	95-0458-01 (100-115V) 95-0458-02 (230V)
<b>M-26XV</b> Variable Intensity 302nm UV, Filter 25 x 26cm	95-0413-01 (100-115V) 95-0413-02 (230V)

### Dimensions of 2UV, Single and Variable Intensity Models:

11D x 14W x 4.8H in. (279 x 356 x 122mm) Height includes UV blocking cover. Weight: 12.7 lb. (5.79 kg)

**For Gel Tools and Converter Plates, see page 27.**

### Mini M-10E - Ordering Information

<b>M-10E</b> Single Intensity 302nm UV, Filter Size 10 x 10cm	95-0180-01 (115V) 95-0180-02 (230V)
Tube, 6-watt, 302nm	34-0044-01

## High Performance UV Transilluminators

All **High Performance UV Transilluminators** include exclusive 25-watt ultraviolet tubes which provide a total of 100-watts of brilliant UV illumination.

- Deliver high UV output and intensity, no light flicker, fast lamp start-up and reduced electrical consumption
- Stainless steel frame enables easy cleaning
- The back-lit UV illumination is further enhanced with UVP's UVG long-life filter and uniformity screen
- The UV blocking cover, included with each transilluminator, is adjustable for access to the filter area

### Single Wavelength UV Transilluminators

These models supply a single UV wavelength. The ordering information chart below shows the filter sizes available.

### Variable Intensity UV Transilluminators

- Choose a model with shortwave (254nm), midrange (302nm) or longwave (365nm) UV for high fluorescence and sensitivity of stained gels
- Variable intensity allows the researcher to select high, medium or low settings

#### Single or Variable Intensity - Ordering Information

<b>TFM-20V</b> Variable Intensity 302nm UV Filter Size 20 x 20cm	95-0423-01 (100-115V) 95-0423-02 (230V)
<b>TFM-26V</b> Variable Intensity 302nm UV Filter Size 21 x 26cm	95-0422-01 (100-115V) 95-0422-02 (230V)
<b>TFM-30V</b> Variable Intensity 302nm UV Filter Size 25 x 30cm	95-0424-01 (100-115V) 95-0424-02 (230V)
<b>TFM-40V</b> Variable Intensity 302nm UV Filter Size 20 x 40cm	95-0421-01 (100-115V) 95-0421-02 (230V)
<b>TFL-40V</b> Variable Intensity 365nm UV Filter Size 20 x 40cm	95-0420-01 (100-115V) 95-0420-02 (230V)
<b>TFS-20V</b> Variable Intensity 254nm UV Filter Size 20 x 20cm	95-0427-01 (100-115V) 95-0427-02 (230V)
<b>TFS-26V</b> Variable Intensity 254nm UV Filter Size 21 x 26cm	95-0428-01 (100-115V) 95-0428-02 (230V)
<b>TFS-30V</b> Variable Intensity 254nm UV Filter Size 25 x 30cm	95-0429-01 (100-115V) 95-0429-02 (230V)
<b>TFS-40V</b> Variable Intensity 254nm UV Filter Size 20 x 40cm	95-0430-01 (100-115V) 95-0430-02 (230V)

**Dimensions** for all High Performance UV Transilluminators:

13.25D x 19.13W x 5.63H in. (337 x 486 x 143mm)  
Height includes UV blocking cover.

UVP ... (800) 452-6788 | (909) 946-3197 | +44(0)1223-420022 | UVP.com



**TFM-40V High Performance UV Transilluminator** with variable intensity and 20x40cm filter. The hinged UV blocking cover is adjustable to different angles for access to the filter surface.

#### Replacement Tubes

Tube, 25-watt, 254nm	34-0073-01
Tube, 25-watt, 302nm	34-0072-01
Tube, 25-watt, 365nm	34-0060-01

### 2UV Transilluminators

**High Performance 2UV models** are the same size and design as other high performance models but are equipped with midrange (302nm) and longwave (365nm) UV in each unit.



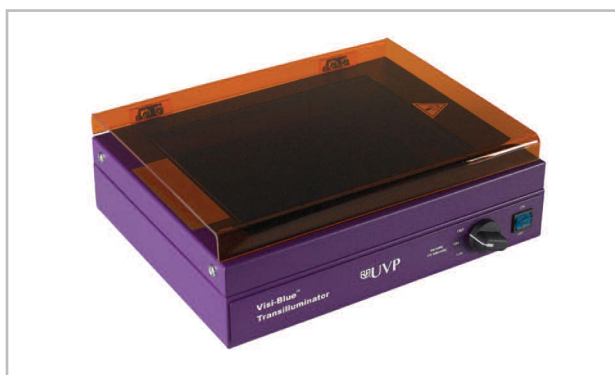
#### 2UV High Performance - Ordering Information

<b>TFML-20</b> Single Intensity 302/365nm UV Filter Size 20 x 20cm	95-0431-01 (100-115V) 95-0431-02 (230V)
<b>TFML-26</b> Single Intensity 302/365nm UV Filter Size 21 x 26cm	95-0425-01 (100-115V) 95-0425-02 (230V)
<b>TFML-30</b> Single Intensity 302/365nm UV Filter Size 25 x 30cm	95-0432-01(100-115V) 95-0432-02 (230V)
<b>TFML-40</b> Single Intensity 302/365nm UV Filter Size 20 x 40cm	95-0426-01 (100-115V) 95-0426-02 (230V)

## Visi-Blue™ Transilluminators

Visi-Blue transilluminators are excellent for use with blue 460-470nm excitation samples including SYBR Green, SYPRO Orange and GFP stains. A special amber camera filter (50mm sq) is included for photography of gels.

- Visi-Blue transilluminators and converter plates minimize photonicking of DNA samples
- The amber protective cover blocks blue light transmission and allows visualization of most samples above 500nm
- **VB-26V** is a compact 8-watt model while the **VB-40V** is a large format 25-watt model



**VB-26V Visi-Blue Transilluminator** patented design supplies 460-470nm illumination.

### Ordering Information

<b>VB-26</b> 8-watt Variable Intensity	95-0461-01 (100-115V)
Filter Size 21 x 26cm	95-0461-02 (230V)
Replace. Tube, 365nm BLB	34-0031-01

<b>VB-40V</b> 25-watt Variable Intensity	95-0433-01 (100-115V)
Filter Size 20 x 40cm	95-0433-02 (230V)
Replace. Tube, 365nm BLB	34-0060-01

### Dimensions: Height includes amber cover

**VB-26V:** 11D x 14W x 4.8H in. (279 x 356 x 122mm)  
Wt: 15 lb. (6.8 kg)

**VB-40V:** 13.25D x 19.13W x 5.6H in. (337 x 486 x 143mm)  
Wt: 21 lb. (9.6 kg)

## White Light Transilluminators



White Light Transilluminators offer uniform light diffusion for autoradiographs, film positives, negatives, X-ray film, microtiter plates and gels.

Plexiglas® and glass filter plates are sealed into the unit for durability.

*Work areas of 21 x 26cm or 36 x 43cm.*

### Ordering Information

<b>TW-26</b> 8-watt	95-0208-01 (115V)
Filter Size 21 x 26cm	95-0208-02 (230V)
Replacement Tube	34-0056-01



### Dimensions:

**TW-26:** 9.5D x 13.25W x 4.25H in. (241 x 337 x 108mm)  
Wt: 8 lb. (3.8 kg)

## White/UV Transilluminators

White/UV transilluminators have 20 x 20cm white light and UV filter areas side by side for illumination of multiple stained gel types:

- White light can be used for viewing Coomassie blue and silver stained protein gels, autoradiographs and microtiter plates
- The UV side can be used for viewing Ethidium Bromide and other stained gels



**White/UV Transilluminator** Easily switch between the UV and white light sources.

### Ordering Information

<b>TLW-20</b> 8-watt	95-0415-01 (100-115V)
365nm UV/White	95-0415-02 (230V)
Filter Size 20 x 20cm	

<b>TMW-20</b> 8-watt	95-0415-04 (100-115V)
302nm UV/White	95-0415-05 (230V)
Filter Size 20 x 20cm	

<b>LMW-20</b> 8-watt	95-0418-01 (100-115V)
365/302nm UV/White	95-0418-02 (230V)
Filter Size 20 x 20cm	

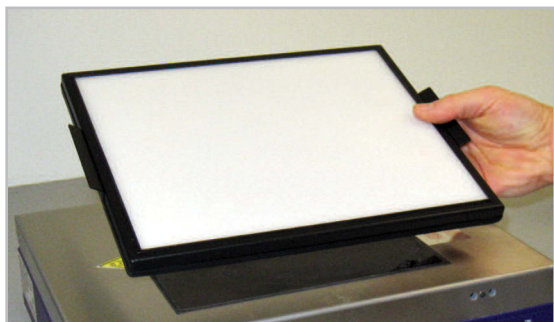
Replacement Tube, White	34-0056-01
Replacement Tube, 365nm	34-0006-01
Replacement Tube, 302nm	34-0042-01

### Dimensions: Height include UV blocking cover

13.25D x 19.13W x 5.64H in. (337 x 486 x 143mm)  
Weight: 21 lb. (9.6 kg)

## Converter Light Plates

### UV/White Converter Plates



**Convert UV to White Light**

Specially designed plate converts the transilluminator's UV radiation to white light for viewing protein gels, Coomassie blue stained or silver stained media.

- Uniquely phosphored glass assembly (patented) converts the UV radiation via a white diffuser
- Handles are placed on two sides of the plate for easy handling

#### Ordering Information

<b>UV to White Light Converter Plates</b>	38-0191-01	21 x 26cm
	38-0191-02	20 x 40cm
	38-0191-04	25 x 26cm

### UV/Blue and UV/UV Plates



**Visi-Blue™ Converter Plate**  
Scratch resistant glass surface is secured to the metal frame.

Visi-Blue Converter Plate includes an amber camera filter for use in photographing gels.

Position the plate on top of a UV transilluminator to convert the 302nm UV. Visi-Blue Plate converts UV to 460-470nm blue light for use with various stains including SYBR Green, SYPRO Orange and GFP.

UV/UV Converter Plate converts 302nm to 365nm UV which is ideal for preparation and gel excision work.

#### Ordering Information

<b>Visi-Blue Converter Plates (460-470nm)</b>	38-0200-01	21 x 26cm
	38-0200-02	20 x 40cm
	38-0200-04	25 x 26cm

<b>Visi-Blue Converter Plate with Amber Cover (460-470nm)</b>	38-0242-01	21 x 26cm
---	------------	-----------

<b>UV/UV Converter Plate (302 to 365nm)</b>	38-0325-01	25 x 26cm
---	------------	-----------

## Gel Tools

- **Gel-Cutter:** Edge allows for easy cutting and removal of gel material
- **Gel-Scooper:** Made of strong acrylic with a beveled edge designed for transfer of gels
- **Gel-Trays:** UV transmitting trays can be used for moving gels to the transilluminator. Tray protects the filter surface from scratches
- **Gel-Ruler:** Centimeter markings fluoresce under 365nm and 302nm UV wavelengths

*Gel-Tools are useful for researchers working with transilluminators as well as gel imaging systems.*

*Photo shows Gel-Trays, Gel-Scooper, Gel-Cutter and Gel-Ruler.*

*Gel-Tool Kit combines a Gel-Ruler, Gel-Cutter, Gel-Tray, Gel-Scooper plus Faceshield.*



#### Ordering Information

<b>Gel-Tool Kit</b>	98-0109-01
---------------------	------------

<b>Gel-Trays, Plexiglas®</b>	10.75W x 9D in. (27 x 23cm)	85-0007-05
	11.5W x 9D in. (29 x 23cm)	85-0007-01
	16.5W x 10.5D in. (42 x 27cm)	85-0005-01

<b>Gel-Tray, stainless steel/glass</b>	16.5W x 10.5D in. (42 x 27cm)	38-0296-03
--	-------------------------------	------------

<b>Gel-Cutter, 20cm</b>	85-0002-01
<b>Gel-Ruler, 25cm</b>	85-0003-01
<b>Gel-Scooper, 5W x 12L in. (12.7 x 30.5cm)</b>	85-0006-01

### Fluorescent Standard Step Tablet

Place the non-photobleaching Step Tablet (patent pending) next to your gel on a FirstLight UV Illuminator. The Step Tablet has a calibrated 21-step gradation with density from totally clear (step 1) to totally opaque (step 21). The gradation allows accurate, consistent comparison of the bands and spots on acquired images against one another and the step tablet for variations in lighting and optical conditions. Allows evaluation of the image against the grayscale.



#### Ordering Information

<b>Step Tablet</b>	33-0014-02
--------------------	------------



**Wolflabs**

# Wolf Laboratories Limited

[www.wolflabs.co.uk](http://www.wolflabs.co.uk)

Tel: 01759 301142

Fax: 01759 301143

[sales@wolflabs.co.uk](mailto:sales@wolflabs.co.uk)



**Use the above details to contact us if this literature doesn't answer all your questions.**

**Pricing on any accessories shown can be found by keying the part number into the search box on our website.**

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

