

TRANSILLUMINATORS

UVI^{BLUE}

The non-UV transilluminator

To eliminate the damage caused by ultra violet light to DNA and RNA gels we are pleased to introduce our new UVIblue transilluminator.

During the purification of DNA and RNA from gels, Ultra – violet light can induce both nicking and crosslinking. Use of the new Uviblue transilluminator eradicates this problem and thus greatly improves the efficiency of this process.

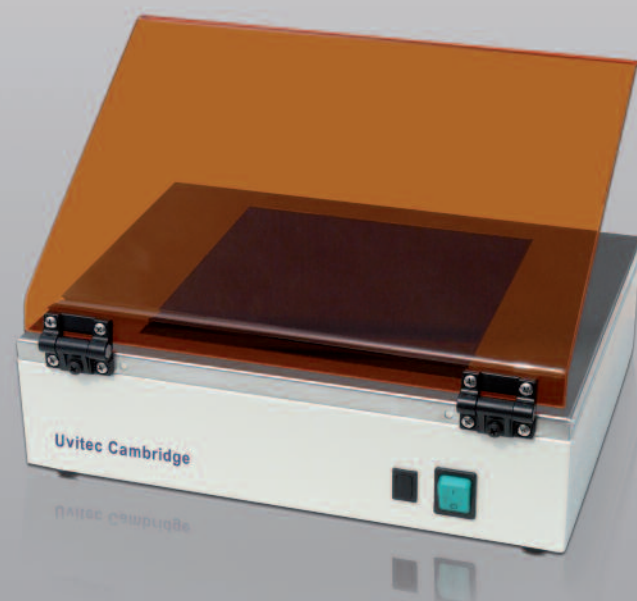
The UVIblue has been designed in order to give the best image possible. There are almost 300 LEDs arranged to give a consistent intensity across the table. We incorporate the highest standard of LED available to give unprecedented light uniformity. The Light Emitting Devices also conform to the highest environmental standards.

The intense blue light emitted is doubly enhanced by use of a narrow excitation filter giving an excitation peak at 470 nm. This allows the excitation light to be separated from the emission light to give the clarity of image our customers expect from Uvitec.

UVIblue technology is ideal for Sybr Safe®, Gel-Red®, Sypro Ruby®, Gel-Star®, Sypro Orange®, Sybr Gold®, Sybr Green® I & II and eGFP®, amongst others.

Ordering

Model No.	Filter (cm)	Light device
BXT-F20.Blue	20x20	Filtered blue LED technology



UVI^{PURE}

Enhanced viewing & documentation

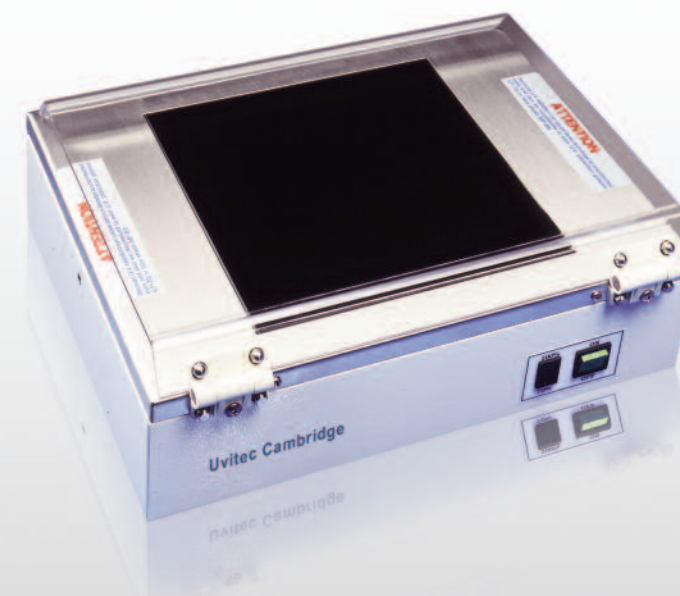
The use of special filter material in the UVIpure transilluminator greatly enhances contrast, making fluorescent bands easier to see with the naked eye or imaging systems. The special filter eliminates visible light which reduces the need for filtering to isolate the fluorescent band signal.

Gels stained with both ethidium bromide and Sybr® Green are viewed on a UVIpure transilluminator with the naked eye more easily. Since background light is eliminated no filtering is required and no signal is lost. The dark, uniform surface of the filter provides a high-contrast background, enabling viewing of even the faintest bands.

The absence of visible background light and minimal IR output from the UVIpure transilluminator enable broad transmission camera filters to be used. This ensures that maximum transmission of the fluorescent signal is always achieved.

Ordering

Model No.	Description	Filter (cm)	Tube & wavelength (nm)
BXT-F26.MX	Hi/Lo intensity	26x21	6 x 8W – 302nm
BXT-F26.LMX	Hi intensity	26x21	6 x 8W – 365nm 5 x 8W – 302nm



UVI^{VUE}

Extensive range

For optimum visualisation of agarose or polyacrylamide gels UVItec offers what is probably the widest available range of ultraviolet transilluminators. The ‘mini’ range takes 8W tubes and can have filter sizes up to 21 x 26cm. With the standard size range filters with dimensions up to 25 x 35cm are possible. All are high quality models with stainless steel filter frames, long life filters and highly polished ‘ondulex’ reflectors for ultimate efficiency.

An adjustable UV blocking cover is included to protect the user from harmful UV. This new technology reduces flicker, provides instant switch-on and allows dual intensity to be a standard feature.

High quality, stainless steel filter frame is resistant to chemicals and scratching. The epoxy painted body is resistant to chemicals too and the unit design prevents liquids from leaking into the interior.

Transfer and positioning of wet gels on the transilluminator surface is facilitated by the smooth, scratch-resistant stainless steel filter frame and the highly polished filter surface. Angle-adjustable UV blocking cover offers users hands-free protection from harmful UV rays.

Ordering – UV / white light transilluminator

Model No.	Description	Filter (cm)	Tube & wavelength (nm)
STS-20 W/M	Single intensity	20x20 UV & 20x20 white light	2 x 8W – white light 6 x 8W – 302nm
STS-20 W/S	Single intensity	20x20 UV & 20x20 white light	2 x 8W– white light 6 x 8W – 254nm
STS-20 W/L	Single intensity	20x20 UV & 20x20 white light	2 x 8W – white light 6 x 8W– 365nm

Ordering – 8 watt transilluminator

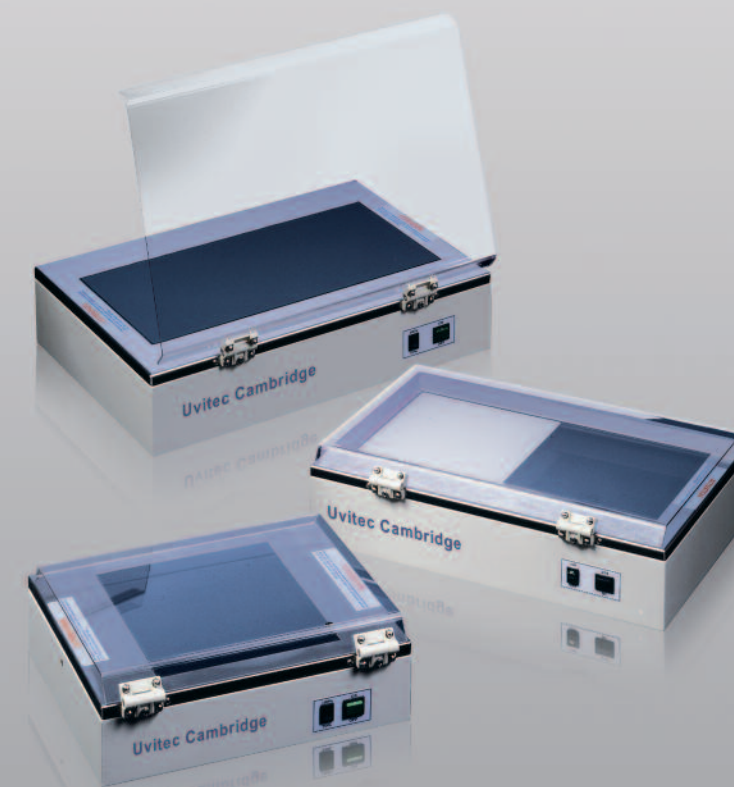
Model No.	Description	Filter (cm)	Tube & wavelength (nm)
BXT-F26.M	Hi/Lo intensity	26x21	6 x 8W – 302nm
BXT-F20.M	Hi/Lo intensity	20x20	6 x 8W – 302nm
BXT-F15.M	Hi/Lo intensity	15x15	6 x 8W – 302nm
BXT-F26.S	Hi/Lo intensity	26x21	6 x 8W – 254nm
BXT-F26.L	Hi/Lo intensity	26x21	6 x 8W – 365nm
BTS-20.W	Hi/Lo intensity	20x20	2 x 8W – White light

Ordering – 2 wavelengths transilluminator

Model No.	Description	Filter (cm)	Tube & wavelength (nm)
BTS-26.LM	Hi intensity	26x21	5 x 8W – 365nm 6 x 8W – 302nm
BTS-20.LM	Hi intensity	20x20	5 x 8W – 365nm 6 x 8W – 302nm
BTS-26.LS	Hi intensity	26x21	5 x 8W – 365nm 6 x 8W – 254nm

Ordering – 15 watt transilluminator

Model No.	Description	Filter (cm)	Tube & wavelength (nm)
SXT-F36.M	Hi/Lo intensity	25x35	6 x 15W – 302nm
SXT-F26.M	Hi/Lo intensity	26x21	6 x 15W – 302nm
SXT-F20.M	Hi/Lo intensity	20x20	6 x 15W – 302nm





UVLINK Ultraviolet crosslinker

The UVlink CL-508 Crosslinker is a fully microprocessor-controlled unit specially designed to give the best possible results when binding nucleic acids to membranes. The correct ultraviolet dosage can be set using the membrane keypad in either energy units (Joules) or time (seconds). There are nine possible presets for energy exposure and nine presets for time exposure as well as manual user selection.

- Programmable microprocessor control
- UV energy monitored automatically
- Compact footprint with large interior
- Observation window – UV blocking
- Membrane keypad operation
- Clear LED display
- Safety interlocked

Outstanding, high quality results in less time

Ultraviolet crosslinking of DNA and RNA to nylon or nitrocellulose membranes is now well established as a laboratory technique and there is a large amount of work published on the topic. Time saved from UV crosslinking compared with the conventional vacuum oven baking method is considerable – seconds or minutes as opposed to hours.

Small and safe without compromising efficiency

UVlink CL-508 is a compact unit occupying minimum bench space with a footprint of only 350 x 350 mm and a spacious interior chamber of 270 x 300 x 140 mm. As with all UVitec products safety is a major consideration so the CL-508 door is safety interlocked against opening during operation and the observation window in the door is ultraviolet-blocking. The ultraviolet energy is continuously monitored by an accurate, microprocessor-controlled, photo-feedback system which compensates for variation in output from the UV sources. In this way consistency of operation and maximum efficiency are maintained.

> Applications include:

- Fixing of nucleic acids to nylon or nitrocellulose membranes
- Southern or Northern blotting, dot blotting and colony or plaque lifts
- Elimination or reduction of PCR contamination
- Nicking ethidium bromide stained DNA in agarose gels
- Gene mapping for creating cleavage inhibiting thymine dimers
- Screening RecA mutation
- Ultraviolet curing of polymers, adhesives and inks
- Ultraviolet sterilisation

Specifications

Features	Description
UV source	5x8W, either in 254, 302 or 365nm Interchangeable wavelengths
Maximum time and energy	Maximum time exposure: 999.9 minutes Maximum energy exposure: 99.99 J (Joule) Two measurement ranges: 0 - 99.99 J or/and 0 - 9.999 J
Controls	Preset or manual controls for both energy and time exposure. 9 presets for both energy and time exposure.
Internal dimension	H145xD330xW260
External dimension	H305xD360xW350

Ordering

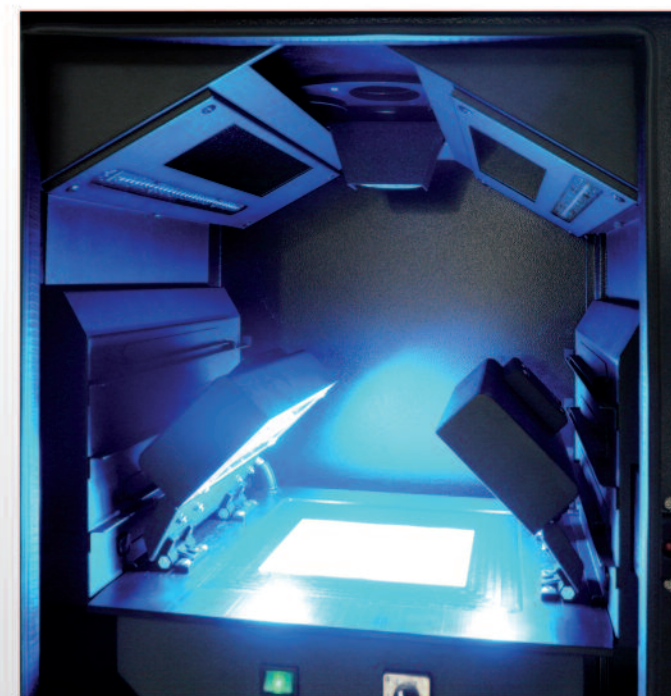
Model No.	Description	Wavelength
CL-508.G	Crosslinker shortwave	254
CL-508.M	Crosslinker midrange	302
CL-508.BL	Crosslinker longwave	365

EPI-BRIGHT Making light work

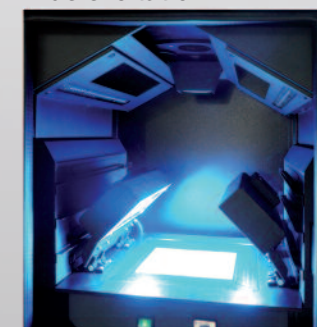
The Epibright RGB is an epi-illumination module with powerful red, green and blue focussed LED technology. This module can be simply fitted to our existing imaging systems and allows users to expand their applications to include multiplex Westerns, among many others (summarised in table below).

The Epibright RGB technology is uniquely designed to give the most focussed and intense excitation light in order to increase the probability of a successful analysis. long life LEDs are organised in array in order to maximize the excitation energy on the sample, while the captured light is passed through emission filters to give images of the highest quality for further quantification and study.

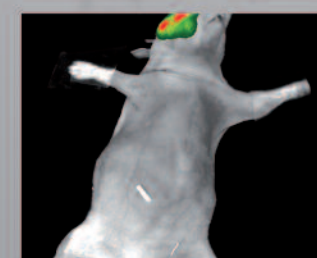
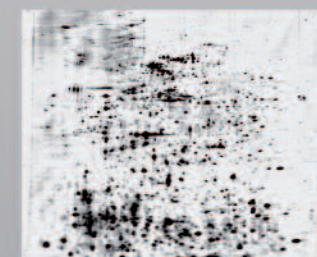
Use of the Alliance range with the Epibright RGB module allows the automatic setting of filters, lens focus and exposure settings to ensure data consistency and ease of use.



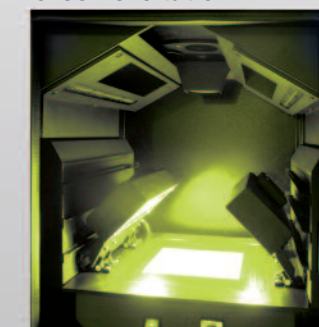
Blue excitation



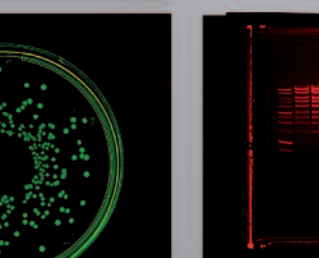
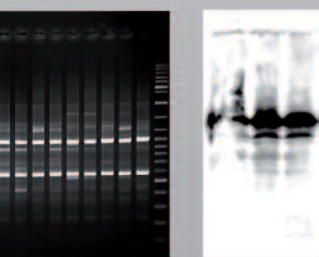
- SYBR Safe
- SYBR Green I
- SYBR Green II
- SYBR Gold
- FITC
- eGFP
- Cy2
- FAM
- Alexa Fluor 488
- DyLight 488
- SYPRO ruby
- eCFP
- Attophos



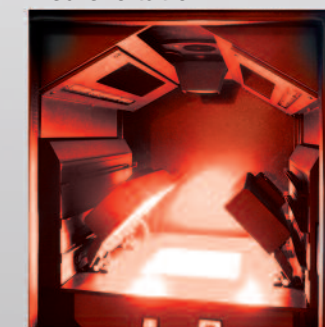
Green excitation



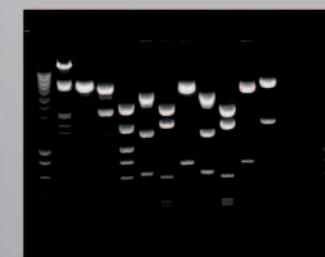
- Alexa Fluor 532
- Alexa Fluor 546
- Cy3
- DyLight 549
- SYPRO Red
- Deep Purple
- Rhodamine Red

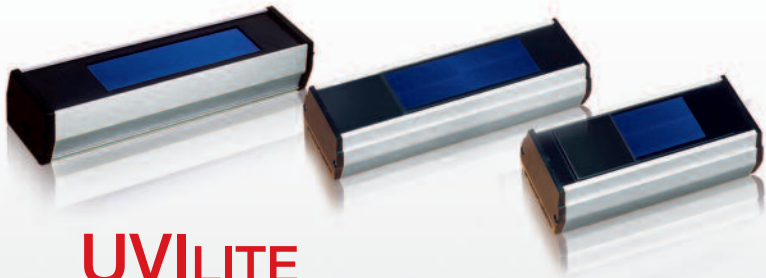


Red excitation



- Alexa Fluor 635
- Cy5
- DyLight 649
- Bodipy 650
- Alexa Fluor 647





UVILITE

Ultraviolet filtered lamps for fluorescence applications

Our filtered lamps are used in fluorescent techniques. They incorporate an extruded, anodised aluminium housing. The operator-friendly shape permits lamps to be held with gloved hands easily. Our highly efficient, well-designed lamps are produced in three wavelengths: 254, 302 and 365nm as well as in dual wavelength combinations. Power ranges from a single 4W tube up to two 15W tubes.

- > Applications include:
- Short wavelength (254nm): fluorescence techniques, fluoro-chemistry, mineralogy, photo-polymerisation, mutation studies, toxicology.
 - Mid wavelength (302nm): electrophoresis gel viewing.
 - Long wavelength (365nm): TLC plate viewing, fluoro-chemistry, food inspection, quality control, titration, pesticide analysis, mineralogy.

Ordering

Model No.	Filter (mn)	Tube (mn)	Wavelength (mn)	Intensity at 15cm $\mu\text{W}/\text{cm}^2$	External size
LF-104L	50 x 75	1 x 4W	365	400	205x82x65
LF-104S	50 x 75	1 x 4W	254	340	205x82x65
LF-106L	50 x 150	1 x 6W	365	700	282x82x65
LF-106M	50 x 150	1 x 6W	312	680	282x82x65
LF-106S	50 x 150	1 x 6W	254	710	282x82x65
LF-115L	80 x 300	1 x 15W	365	1100	505x140x100
LF-115M	80 x 300	1 x 15W	312	1000	505x140x100
LF-115S	80 x 300	1 x 15W	254	1000	505x140x100
LF-204LS	50 x 75	1 x 4W 1 x 4W	365 254	350 265	205x82x65
LF-206LM	50 x 150	1 x 6W 1 x 6W	365 312	610 580	282x82x65
LF-206LS	50 x 150	1 x 6W 1 x 6W	312 254	610 400	282x82x65
LF-206MS	50 x 150	1 x 6W 1 x 6W	365 254	580 400	282x82x65
LF-215L	80 x 300	2 x 15W	365	2300	505x140x100
LF-215M	80 x 300	2 x 15W	312	3000	505x140x100
LF-215S	80 x 300	2 x 15W	254	1780	505x140x100
LF-215LM	80 x 300	1 x 15W 1 x 15W	365 312	1350 1800	505x140x100
LF-215MS	80 x 300	1 x 15W 1 x 15W	312 254	1800 930	505x140x100
LF-215LS	80 x 300	1 x 15W 1 x 15W	365 254	1350 930	505x140x100

UVICAB

Ultraviolet viewing cabinet

CV-415 cabinet

- Professional unit for effective viewing with power intensity unrivalled in this field.
- Incorporates 4 x 15Watt UV tubes plus one 40Watt white light bulb
 - Any single or dual wavelength combination of 254, 302 and 365nm wavelengths
 - Versatile: simply change the tubes when a new wavelength is required
 - Removable base panel enabling positioning above a standard transilluminator
 - Viewing port with UV absorbing filter

> Applications of CV cabinets

- Reading chromatograms (paper or TLC)
- Fluorescent analysis in biology, chemistry and forensics
- Industrial and electronic quality control
- Can also be used for applications in geology and mineralogy



CV-006 cabinet

- An economic solution to laboratory inspection of fluorescent samples.
- Compact, versatile and efficient
 - Can hold one or two UVILite, 6W UV lamps
 - Choose from 254, 302 or 365nm wavelengths
 - Viewing port with UV absorbing filter

Ordering

Model No.	Description (mn)	Tube & wavelength (mn)	Intensity at bottom $\mu\text{W}/\text{cm}^2$	External size (WxDxH) Internal size (WxD)
CV-415LL	cabinet, long wave	4 x 15W – 365nm	2000	505x415x280 450x300
CV-415SS	cabinet, short wave	4 x 15W – 254nm	1750	505x415x280 450x300
CV-415MM	cabinet, mid wave	4 x 15W – 302nm	1800	505x415x280 450x300
CV-415 LM	cabinet, long/mid	2 x 15W – 365nm 2 x 15W – 302nm	1050 970	505x415x280 450x300
CV-415MS	cabinet, mid/short	2 x 15W – 302nm 2 x 15W – 254nm	970 900	505x415x280 450x300
CV-415LS	cabinet, long/short	2 x 15W – 365nm 2 x 15W – 254nm	1050 900	505x415x280 450x300
CV-015W	cabinet, white light	40W bulb white light		505x415x280 450x300
CV-006	mini cabinet,	1 or 2 LF-106 or LF-206 lamps (not supplied)		300x280x240 260x240

All versions of CV 415 fitted with 1 x 40Watt white light bulb



UVILITE

Germicidal lamps

Widely used in medical and scientific research laboratories as well as in electronics and the food and beverage industries. Areas that must be kept free from bacterial contamination may be irradiated with UVIttec germicidal lamps as long as safeguards are in place to protect operators.

Ordering

Model No.	Tube	Intensity $\mu\text{W}/\text{cm}^2$	External size
LI-206G	2 x 6W	1400*	282x82x65
LI-208G	2 x 8W	1800*	359x82x65
LI-215G	2 x 15W	76	505x140x100
LI-220G	2 x 20W	95	678x140x108
LI-230G	2 x 30W	152	983x140x108
LI-240G	2 x 40W	157	1288x140x108
LI-315G	3 x 15W	95	505x140x100
LI-320G	3 x 20W	119	678x140x108
LI-330G	3 x 30W	191	983x140x108
LI-340G	3 x 40W	219	1288x140x108

Intensities all at 1m except * at 15cm

BL/BLB unfiltered UV long wave lamps

BL (Black-light) tubes are actinic ultraviolet types and include a white light component in the output. Applications for BL lamps include polymer curing, adhesive curing, dermatology, pharmacology, photo-resist exposure.

BLB (Black-light Blue) tubes are self-filtered cobalt glass – to reduce the visible light component and increase fluorescent contrast. Applications for BLB lamps include: non-destructive testing, quality control, invisible coding/markings, counterfeit note detection, rodent contamination detection, readmission control, aflatoxin detection, signature verification.

Ordering

Model No.	Tube	Intensity $\mu\text{W}/\text{cm}^2$	External size
LI-206BL	2 x 6W BL	1215*	282x82x65
LI-208BL	2 x 8W BL	1400*	359x82x65
LI-215BL	2 x 15W BL	108	505x140x100
LI-315BL	3 x 15W BL	147	505x140x100
LI-220BL	2 x 20W BL	129	678x140x108
LI-320BL	3 x 20W BL	177	678x140x108
LI-230BL	2 x 30W BL	228	963x140x108
LI-330BL	3 x 30W BL	312	963x140x108
LI-240BL	2 x 40W BL	302	1288x140x108
LI-340BL	3 x 40W BL	413	1288x140x108

Model No.	Tube	Intensity $\mu\text{W}/\text{cm}^2$	External size
LI-206BLB	2 x 6W BLB	1120*	282x82x65
LI-208BLB	2 x 8W BLB	1300*	359x82x65
LI-215BLB	2 x 15W BLB	100	505x140x100
LI-315BLB	3 x 15W BLB	136	505x140x100
LI-220BLB	2 x 20W BLB	119	678x140x108
LI-320BLB	3 x 20W BLB	163	678x140x108
LI-230BLB	2 x 30W BLB	210	983x140x108
LI-330BLB	3 x 30W BLB	288	983x140x108
LI-240BLB	2 x 40W BLB	279	1288x140x108
LI-340BLB	3 x 40W BLB	381	1288x140x108

UVIACCESSORIES

Lamp accessories

Lamp stands are useful for easy positioning of lamps above a surface.



Model No.	Type	Compatibility
LS-08	Stand	For LI or LF lamps, 4, 6 or 8 W
LS-15	Stand	For LI or LF lamps, 15 W

Note: 20, 30 and 40 W lamps are supplied with built-in wall-bracket.



UVIMETER
Ultraviolet radiometer

UVitec radiometers record the strength of ultraviolet radiation for a specific wavelength (long wave, short wave, mid wave). The strength of UV radiation refers to the UV intensity and is measured in mW/cm². The amount of UV radiation can also be measured. It indicates how much UV energy strikes a defined surface within a specific time frame. Data is defined in mJ/cm² (milli-Joule per centimeter squared). The VLX-3W and UV-3W UVitec radiometers are small, handy, modularly constructed instruments with a choice of three receptor heads to record UV radiation in the spectral area of 254nm to 365nm. Within this wide measurement range of 0.1 to 250 mW/cm² our radiometers switch the measurement range automatically and indicate readings on a large LCD.

- A USB port enables the measurement values to be exported to a PC. Depending on the measurement task and/or the spectral area to be measured an appropriate receptor head is selected and attached to the basic VLX-3W or UV-3W unit.
- Silicon photo-electric cell for a direct measurement of UV radiation. No need for conversion into visible light.
 - Interference filter to select the appropriate UV band and to eliminate all other unwanted radiation.
 - Non-sensitive to infrared.
 - No electronic components in the sensor to avoid any possible temperature disparity
 - Quartz disc protection on cell filter
 - Carbon shielded cable (1 meter)
 - Microprocessor-controlled
 - Designed for operating at 254nm, 302nm or 365nm
 - Independent sensor (purchased separately) for each wavelength

Ordering	
VLX-3W	VLX-3W radiometer (sensor to be purchased separately)
UV-3W	UV-3W radiometer (sensor to be purchased separately)
SX-254	Sensor, 254nm short wave UV
SX-302	Sensor, 302nm mid wave UV
SX-365	Sensor, 365nm long wave UV

	VLX-3W	UV-3W
Features	Display of the UV Intensity in mW/cm² Display of the energy in Joules/cm² and the running time HOLD – Fixes the reading at a given time Displays min and max intensities - USB port for data output	Display of the UV Intensity in mW/cm² HOLD – Fixes the reading at a given time USB port for data output
Measurement range	Intensity: 0 to 250mW/cm² Energy: 0 to 99999 joules/cm² - Time: 0s to 99 hours	Intensity: 0 to 250mW/cm²
Resolution	Auto-ranging - Energy: 1st range: 0.0000 to 9.9999 mJ/cm² 2nd range: 10.000 to 99.999 mJ/cm² 3rd range: 100.00 to 999.99 mJ/cm² 4th range: 1000.0 to 9999.9 mJ/cm² 5th range: 10000 to 99999 mJ/cm² Intensity: 1st range: 0.001 to 99.999 mW/cm² 2nd range: 0,01 to 250.00 mW/cm²	Auto-ranging 1st range: 0.001 to 99.999 mW/cm² 2nd range: 0,01 to 250.00 mW/cm²
Sensors	Sensor accuracy: +/- 5% - Linearity: +/- 0.5% Silica photo electric cell - Interference filter Quartz disk protection on cell filter	Sensor accuracy: +/- 5% - Linearity: +/- 0.5% Silica photo electric cell - Interference filter Quartz disk protection on cell filter
Short wave UV sensor	SX-254 sensor, 254nm short wave UV. Monochromatic bandwidth	SX-254 sensor, 254nm short wave UV. Monochromatic bandwidth
Mid wave UV sensor	SX-302 sensor, 302nm mid wave UV Bandwidth: 280 to 320nm	SX-302 sensor, 302nm mid wave UV Bandwidth: 280 to 320nm
Long wave UV sensor	SX-365 sensor, 365nm long wave UV Bandwidth: 355 to 375nm	SX-365 sensor, 365nm long wave UV Bandwidth: 355 to 375nm

UVICONVERT
UV to white or blue light

The ultraviolet white or blue light conversion screens are a simple solution for using a gel documentation system for ultraviolet and white light or blue light illuminated gel. By placing a conversion screen over the 312nm transilluminator all ultraviolet radiation is blocked and the screen transmits only white or blue light. The white light is suitable for Coomassie blue and silver stained protein gels, autoradiograms etc.

Model No.	Description
FC-26.WL	UV to white light conversion screen
FC-26.BL	UV to blue light conversion screen

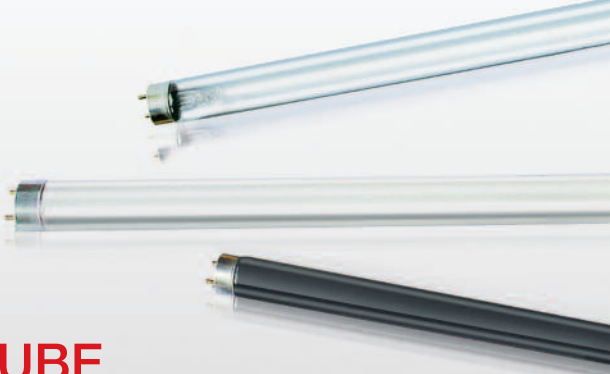


UVISAFE
Ultraviolet safety wear

Safety wear to protect eyes and face from harmful ultraviolet rays is recommended to all operators of ultraviolet equipment and patients undergoing PUVA treatment. Cover spectacles and face shields are specially produced for UVitec.

- Comfortable to wear
- Lightweight, unobtrusive design
- Guaranteed to completely block ultraviolet radiation below 400nm
- CE marked

Ordering	
Model No.	Description
MP-800	UV safety face shield
LP-70	UV safety goggles



UVITUBE
Replacement ultraviolet tubes

We supply a full range of ultraviolet tubes to fit most available models of UV transilluminators and UV lamps plus other UV devices. We specialise in rapid delivery from extensive stock. In addition to those listed in the table, we can also supply larger UV tubes of up to 40W including short wave (254nm) germicidal tubes.

Ordering		
Model No.	Output (Watts)	Wavelength
T-4L	4W	365
T-4S	4W	254
T-4LN	4W	365 BLB
T-6L	6W	365
T-6S	6W	254
T-6M	6W	302
T-6LN	6W	365 BLB
T-8L	8W	365
T-8S	8W	254
T-8M	8W	302
T-8LN	8W	365 BLB
T-15L	15W	365
T-15S	15W	254
T-15M	15W	302
T-15LN	15W	365 BLB
T-20L	20W	365
T-20S	20W	254
T-20M	20W	302
T-20LN	20W	365 BLB
T-30L	30W	365
T-30S	30W	254
T-30M	30W	302
T-30LN	30W	365 BLB