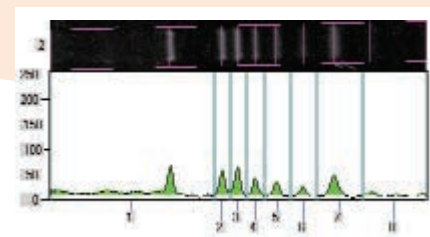
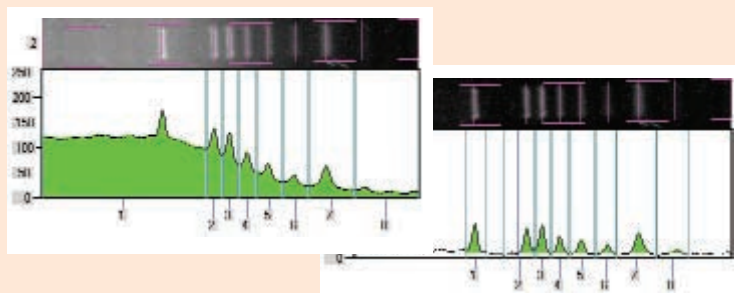
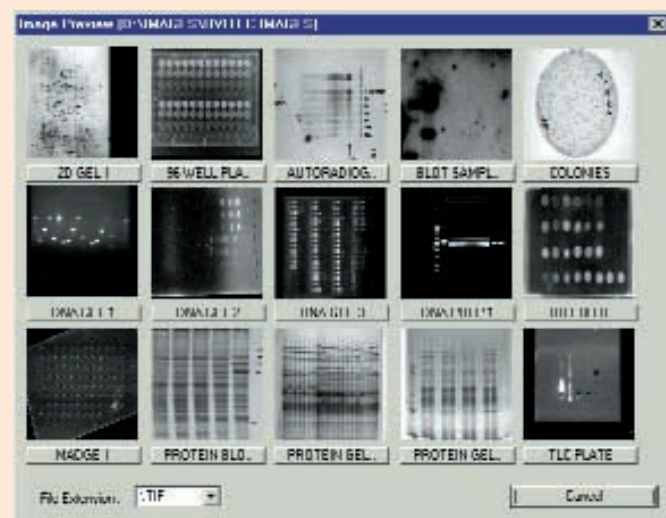


uvisoft

gel analysis software



special features and benefits

In designing UVIsoft analysis software, we have thought of everything. As a result, all UVIsoft analysis packages are:

User-Friendly: every aspect of UVIsoft is designed with ease of use in mind. This includes the very first step of opening an image, which is facilitated by the ability to choose the file from a "thumbnail" image gallery.

Powerful: all UVIsoft analysis packages include the option of reliable, fully automatic background subtraction for band quantification and optional methods for correction of gel distortions during molecular weight calculations.

Flexible: Attractive as it may sound, "One Step" analysis places excessive reliance on automation and can detract

from accurate gel or blot analysis. Analysis in UVIsoft packages is step-wise and at each analysis step, there is the facility for the user to check and (if necessary) edit the results of automatic analysis processes.

Versatile: In addition to the incredibly broad range of analysis functions available in UVIsoft, there are also functions to facilitate data presentation, reports and posters. The "Print Designer" function enables data tables plus

images from all analysis fields to be automatically "pasted" into a presentation or report along with explanatory text. The report can then be saved as a template, so the same report can be prepared from other data.



uvimeter

ultraviolet radiometers

UVItec RS radiometer 254 312 365nm (three models)

- Electronic case
- LCD display
- Analog output
- Zero drift
- Off/On/Hold switch

UV sensor (fixed)

- Silicon photo-electric cell for a direct measurement of the 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 infra-red.
- No electronic components in the sensor to avoid any possible temperature disparity
- Quartz disc protection on cell filter
- Carbon shielded cable (1 metre)

UVImeter RX 003 radiometer with microprocessor

- Designed for operating at 254nm, 312nm and 365nm
- Independent sensor (supplied separately) for each wavelength
- Analog output on the rear panel for each wavelength
- 4 X 16 LCD display
- 4 'Alkaline' batteries R6/1.5V

Connections
Connector for 4.5V DC-200mA external stabilised power supply. RS232 output for computer (PC) (9600 baud – 8 bits – without parity). Analog output. Zero point adjustment. Connector of UV sensor

Keyboard
HOLD – Fixes the reading at a given time
MIN/MAX – Displays min and max intensities
ENTER – Displays the energy in J/cm² & the running time
CLEAR – Initialises the memory & resets min and max intensities

Technical characteristics
Electronic case
Intensity measurements
• Accuracy and linearity: ± 0.2%
• Range: 0 to 350 mW/cm²

Resolution
0.001 mW/cm² from 0.000 to 3.500 mW/cm²
0.01mW/cm² from 3.51 to 35.00 mW/cm²
0.1mW/cm² from 35.1 to 350.0 mW/cm²
Range changes automatically

Analog output
0 to 3.5V for 0 to 350 mW/cm²

Energy measurements
Accuracy: 1µJ/cm²
Range 0 to 99999 J/cm²

Resolution
0.0001 J/cm² from 0.0000 to 9.9999 J/cm²
0.001 J/cm² from 10.000 to 99.999 J/cm²
0.01 J/cm² from 100.00 to 999.99 J/cm²
0.1 J/cm² from 1000 to 9999.9 J/cm²
1 J/cm² from 10000 to 99999 J/cm²
Range changes automatically

Sensor accuracy:
± 5% by comparison with interchangeable radiometer calibrated to traceable standard

Sensor linearity: ± 0.5%
Temperature coefficient: ± 0.05%/C from 0 to 40°C

Interference filter
Half bandwidth (HBW): 12nm ± 2
Blocking range – Filter: 400 to 1200nm: 0.01%
Blocking range – Silicon cell: > 1200nm: 0%

For use in the following conditions:
Temperature: 0 to 50°C
Relative humidity: 30 to 60%

Ordering

Model No.	Description
RS 254	radiometer, short wave
RS 312	radiometer, mid wave
RS 365	radiometer, long wave
RX 003	radiometer
SX 254	sensor, short wave
SX 312	sensor, mid wave
SX 365	sensor, long wave



ultraviolet transilluminators

For the optimum visualisation of agarose or polyacrylamide gels, UVIttec 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 sized range, filter sizes up to 20 x 40cm are possible. All models are of superb quality with stainless steel filter frames, longlife filters and highly polished 'ondulex' reflectors for ultimate efficiency. An adjustable UV blocking cover is included to protect the user from harmful UV. The range now includes electronic ballast technology as standard with the exception of the dual wavelength and the white light models. This new technology reduces flicker, provides instant switch on and allows dual intensity to be a standard feature.

Extensive range

There are more than 30 models in the entire UVIttec range, including two sizes of unit (mini and standard), five sizes of viewing filter and three different wavelength ranges. Mini units (BXT, BTS) have a small footprint of 34 x 26cm while standard units (SXT, STS) have a footprint of 47 x 33cm. Filter sizes of 15 x 15cm, 20 x 20cm and 21 x 26cm are available for mini units while standard unit filters can be up to 20 x 40cm. Wavelength ranges of maximum 254nm, 312nm and 365nm are available as well as dual wavelength and white light models.

- Widest range available
- Superb quality
- Electronic ballast now as standard (exception of dual wavelength & white light)
- Stainless steel filter frames and longlife filters
- Dual wavelength combinations
- Adjustable UV blocking cover



Highest performance

The highly polished 'ondulex' reflectors positioned behind the UV tubes give the highest possible efficiency of UV output, superior to that achieved by plain aluminium. The filter material is also chosen for maximum transmission of the chosen wavelength range as well as long life usage (unlimited at 365 and 312nm, up to 3000 hours at 254nm).

Designed for rough treatment

The high quality, stainless steel filter frame is resistant to chemicals and scratching. The epoxy painted body is also chemical resistant and the unit design eliminates leakage of liquids into the interior.

Facilitates gel handling

The transfer and positioning of wet gels onto the transilluminator surface is facilitated by the smooth, scratch resistant stainless steel filter frame and the highly polished filter surface.



The angle-adjustable UV blocking cover offers hands-free protection to users from the harmful UV rays.

Space saving

The mini units offer efficient, high-powered UV illumination of gels and blots up to 21 x 26cm in size, while having a footprint of only 34 x 26cm. What is more, the mini sized dual wavelength models allow illumination in two different wavelengths from a single compact unit. A dual UV/white light model is also available for illumination of fluorescent and visible gels of up to 20 x 20cm.

ultravue transilluminator



The use of special filter material in the Ultravue transilluminator greatly enhances contrast, making fluorescent bands easier to see both by eye and with documentation systems such as UVIsave, UVIdoc and UVIpro.

The special filter eliminates visible light output thereby reducing the need for filtering to isolate the fluorescent band signal.

Enhanced viewing with ethidium and sybr® stains

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

Enhanced documentation

The absence of visible background light and minimal IR output from the Ultravue transilluminator enable broad transmission camera filters to be used. This ensures that maximum transmission of the fluorescent signal is always achieved. For sybr® green documentation, Ultravue is preferable to visible (blue light) illumination in which a large part of the signal is always lost while filtering out the blue background light.

Ordering

Ultravue Transilluminator

Model No.	Description	Filter (cm)	Tube	Wavelength (nm)
UTX 20M	Hi/Lo intensity	20 x 20	6 x 8W	312

UVIvue Transilluminators (standard size)

SXT 20S	Hi/Lo intensity	20 x 20	6 x 15W	254
SXT 20M	Hi/Lo intensity	20 x 20	6 x 15W	312
SXT 26S	Hi/Lo intensity	21 x 26	6 x 15W	254
SXT 26M	Hi/Lo intensity	21 x 26	6 x 15W	312
SXT 35S	Hi/Lo intensity	20 x 35	6 x 15W	254
SXT 35M	Hi/Lo intensity	20 x 35	6 x 15W	312
SXT 35L	Hi/Lo intensity	20 x 35	6 x 15W	365
SXT 40S	Hi/Lo intensity	20 x 40	6 x 15W	254
SXT 40M	Hi/Lo intensity	20 x 40	6 x 15W	312

STS 20WL	Single intensity, dual wavelength	20 x 20	6 x 8W 2 x 8W	365 white light
STS 20WS	Single intensity, dual wavelength	20 x 20	6 x 8W 2 x 8W	254 white light
STS 20WM	Single intensity, dual wavelength	20 x 20	6 x 8W 2 x 8W	312 white light
STS 35W	Single intensity	20 x 35	4 x 8W	white light

UVIvue Transilluminators (mini size)

BXT 15S	Hi/Lo intensity	15 x 15	4 x 8W	254
BXT 15M	Hi/Lo intensity	15 x 15	4 x 8W	312
BXT 15L	Hi/Lo intensity	15 x 15	4 x 8W	365
BTS 20W	Single intensity	20 x 20	2 x 8W	white light
BXT 20S	Hi/Lo intensity	20 x 20	6 x 8W	254
BXT 20M	Hi/Lo intensity	20 x 20	6 x 8W	312
BXT 20L	Hi/Lo intensity	20 x 20	6 x 8W	365
BXT 26S	Hi/Lo intensity	21 x 26	6 x 8W	254
BXT 26M	Hi/Lo intensity	21 x 26	6 x 8W	312
BTS 20LM	Single intensity, dual wavelength	20 x 20	6 x 8W 5 x 8W	365 312
BTS 20MS	Single intensity, dual wavelength	20 x 20	6 x 8W 5 x 8W	312 254
BTS 20LS	Single intensity, dual wavelength	20 x 20	6 x 8W 5 x 8W	365 254
BTS 26LM	Single intensity, dual wavelength	21 x 26	6 x 8W 5 x 8W	365 312
BTS 26MS	Single intensity, dual wavelength	21 x 26	6 x 8W 5 x 8W	312 254
BTS 26LS	Single intensity, dual wavelength	21 x 26	6 x 8W 5 x 8W	365 254

uvilite

ultraviolet lamps

A very wide range of ultraviolet lamps from low power hand held models to high intensity units is available. There are filtered lamps in three wavelengths for use in fluorescent techniques and unfiltered lamps in both long and short (germicidal) wavelengths. All incorporate an extruded, anodised aluminium housing and a specially designed unique profile has been developed for the hand held lamps. The operator friendly shape permits lamps to be held easily with gloved hands.

Filtered lamps

These highly efficient, well designed lamps are produced in three wavelengths: 254, 312 and 365nm and dual wavelength combinations. Power ranges from a single 4W tube up to two 15W tubes.

Applications include:

Short wavelength (254nm)

Fluorescence techniques, fluorochemistry, mineralogy, photopolymerisation, mutation studies, toxicology.

Mid wavelength (312nm)

Electrophoresis gel viewing.

Long wavelength (365nm)

TLC plate viewing, fluorochemistry, food inspection, quality control, titration, pesticide analysis, mineralogy.

Ordering UVilite filtered UV lamps

Model No.	Filter (mm)	Tube (mm)	Wavelength (nm)	Intensity at 15cm $\mu\text{W}/\text{cm}^2$
LF 104L	50 x 75	1 x 4W	365	400
LF 104S	50 x 75	1 x 4W	254	340
LF 204LS	50 x 75	1 x 4W	365	350
		1 x 4W	254	265
LF 106L	50 x 150	1 x 6W	365	700
LF 106S	50 x 150	1 x 6W	254	710
LF 106M	50 x 150	1 x 6W	312	680
LF 206LM	50 x 150	1 x 6W	312	580
		1 x 6W	365	610



LF 206MS	50 x 150	1 x 6W	312	580
		1 x 6W	254	400
LF 206LS	50 x 150	1 x 6W	365	610
		1 x 6W	254	400
LF 215L	80 x 300	2 x 15W	365	2300
LF 215S	80 x 300	2 x 15W	254	1780
LF 215M	80 x 300	2 x 15W	312	2200
LF 215LM	80 x 300	1 x 15W	365	1350
		1 x 15W	312	1330
LF 215MS	80 x 300	1 x 15W	312	1330
		1 x 15W	254	930
LF 215LS	80 x 300	1 x 15W	365	1350
		1 x 15W	254	930

High intensity lamps

Incorporating cold cathode quartz grid lamps, housed in anodised aluminium extrusion and with the same highly efficient ondulex reflector as filtered lamps. The power supply unit is remote from the lamp head in a separate metal package. Grid lamps produce high intensity, very consistent, short-wavelength (254nm) ultraviolet illumination. The 100W units are available fitted with longlife filters or to special order without filter for germicidal applications.

Applications include:

Biotechnology – mutagenesis, photopolymerisation, toxicology, mycology, sterilisation.

Ordering high intensity lamps

Model No.	Filter (mm)	Wavelength (nm)	Intensity $\mu\text{W}/\text{cm}^2$
LF 180S	70 x 300	254	3400

unfiltered ultraviolet lamps

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 UVitec germicidal lamps, provided safeguards are in place to protect operators.

The same range of lamps is available with either BL or BLB long-wavelength tubes:

BL (Blacklight) tubes are actinic ultraviolet type and include a white light component in the output.



Germicidal radiation required for bacterial destruction

Bacteria	Energy in mW-sec/cm ² Sterilisation up to		Bacteria	Energy in mW-sec/cm ² Sterilisation up to	
	90%	99%		90%	99%
Bacillus anthracis	4.52	9.04	Pseudomonas fluorescens	3.50	7.00
S. enteritidis	4.00	8.00	S. typhimurium	8.00	16.00
B. megatherium sp.(veg.)	1.30	2.60	Sarcina lutea	19.70	39.40
B. paratyphosus	3.20	6.40	Serratia marcescens	2.42	4.84
B. subtilis	7.10	14.20	Dysentery bacilli	2.20	4.40
B. subtilis spores	12.00	24.00	Shigella paradysenteriae	1.68	3.36
Corynebacterium diphtheriae	3.37	6.74	Spirillum rubrum	4.40	8.80
Eberthella typhosa	2.14	4.28	Staphylococcus albus	1.84	3.68
Escherichia coli	3.00	6.00	Staphylococcus aureus	2.60	5.20
Micrococcus candidus	6.05	12.10	Streptococcus hemolyticus	2.16	4.32
Micrococcus sphaeroides	10.00	20.00	Streptococcus lactis	6.15	12.30
Neisseria catarrhalis	4.40	8.80	Streptococcus viridans	2.00	4.00
Phytomonas tumefaciens	4.40	8.80			
Proteus vulgaris	2.64	5.28			

Note: The above table is only intended as a guide to bacterial destruction

Applications for BL lamps include:

Polymer curing, adhesive curing, dermatology, pharmacology, photoresist exposure.

BLB (Blacklight 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.

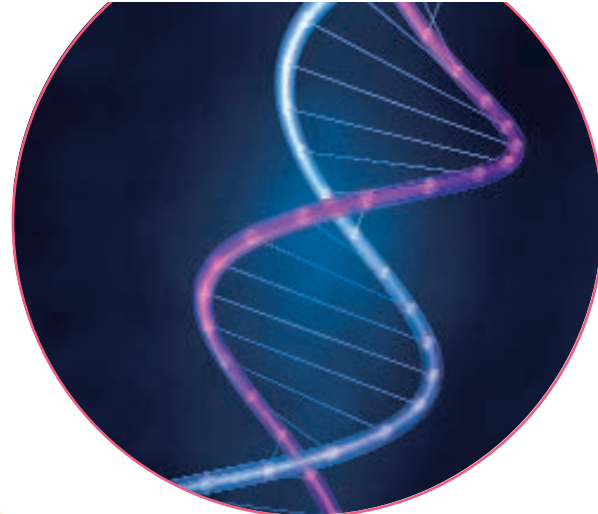
Ordering

UVilite Unfiltered UV germicidal lamps 254nm			UVilite Unfiltered UV longwave lamps 365nm		
Model	No. Tubes	Intensity $\mu\text{W}/\text{cm}^2$	Model	No. Tubes	Intensity $\mu\text{W}/\text{cm}^2$
LI 206G	2 x 6W	1400*	LI 206BL	2 x 6W BL	1215*
LI 208G	2 x 8W	1800*	LI 208BL	2 x 8W BL	1400*
LI 215G	2 x 15W	76	LI 215BL	2 x 15W BL	108
LI 315G	3 x 15W	95	LI 315BL	3 x 15W BL	147
LI 220G	2 x 20W	95	LI 220BL	2 x 20W BL	129
LI 320G	3 x 20W	119	LI 320BL	3 x 20W BL	177
LI 230G	2 x 30W	152	LI 230BL	2 x 30W BL	228
LI 330G	3 x 30W	191	LI 330BL	3 x 30W BL	312
LI 240G	2 x 40W	157	LI 240BL	2 x 40W BL	302
LI 340G	3 x 40W	219	LI 340BL	3 x 40W BL	413
			LI 206BLB	2 x 6W BLB	1120*
			LI 208BLB	2 x 8W BLB	1300*
			LI 215BLB	2 x 15W BLB	100
			LI 315BLB	3 x 15W BLB	136
			LI 220BLB	2 x 20W BLB	119
			LI 320BLB	3 x 20W BLB	163
			LI 230BLB	2 x 30W BLB	210
			LI 330BLB	3 x 30W BLB	288
			LI 240BLB	2 x 40W BLB	279
			LI 340BLB	3 x 40W BLB	381

Intensities all at 1m except * at 15cm

uvilink

ultraviolet crosslinker



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

Simple yet versatile

The UVilink CL 508 Crosslinker is a fully microprocessor controlled unit especially designed to give the best possible results when binding nucleic acids to membranes. The correct ultraviolet dosage can be set using the membrane switch 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 in either units.

Superb 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 considerable published work on the topic. Time saved from UV crosslinking over the conventional vacuum oven baking method is considerable – seconds or minutes as opposed to hours.

Small and safe without compromising efficiency

UVilink CL 508 provides 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 UVIttec products, safety is a major consideration so the CL508 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 ple 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

Ordering

Model	Description	Wavelength (nm)
CL 508S	Crosslinker shortwave	254
CL 508M	Crosslinker midrange	312
CL 508L	Crosslinker longwave	365

uvicab

ultraviolet viewing cabinets



CV 415 cabinet

Professional unit for effective viewing with power intensity unequalled in this field.

Features

- Incorporates 4 x 15Watt UV tubes plus one 40Watt white light bulb
- Any single or dual wavelength combination of 254, 312 and 365nm wavelengths
- Easy control switch operation for each wavelength
- 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

CV006 cabinet

An economic solution to laboratory inspection of fluorescent samples.

Features

- Compact, lightweight, versatile and efficient
- Can hold one or two UVlite, 6W UV lamps
- Choose from 254, 312 or 365nm wavelength
- Strong, lightweight design with black curtain
- Viewing port with UV absorbing filter

Ordering

Model	Description	Tubes	nm	μW/cm ²
CV 415LL	cabinet, long wave	4 x 15W	365	2000
CV 415SS	cabinet, short wave	4 x 15W	254	1750
CV 415MM	cabinet, mid wave	4 x 15W	312	1800
CV 415 LM	cabinet, long/mid	2 x 15W 2 x 15W	365 312	1050 970
CV 415MS	cabinet, mid/short	2 x 15W 2 x 15W	312 254	970 900
CV 415LS	cabinet, short/long	2 x 15W 2 x 15W	254 365	1050 900
CV 015W	cabinet, white light	40W bulb	white light	
CV006	mini cabinet, 1 or 2 6W lamps (not supplied)			

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

replacement ultraviolet tubes

UVItec can supply a full range of ultraviolet tubes to fit most available models of UV transilluminator and UV lamp, plus other UV devices. We specialise in rapid delivery from extensive stocks. We also offer discounts for purchase of multiple (5+) tubes.

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.

Please contact us for details, or see our web site for a complete list.

Ordering

Model No.	Output (Watts)	Wavelength
T4L	4W	365
T4C	4W	254
T4LN	4W	365 BLB
T6L	6W	365
T6C	6W	254
T6M	6W	312
T6LN	6W	365 BLB
T6LC	6W	365/254
T8L	8W	365
T8C	8W	254
T8M	8W	312
T8LN	8W	365 BLB
T15L	15W	365
T15C	15W	254
T15M	15W	312
T15LN	15W	365 BLB



ultraviolet safetywear

Safetywear to protect the 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 by Bollé, the leading European eye safetywear manufacturer.

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

Ordering

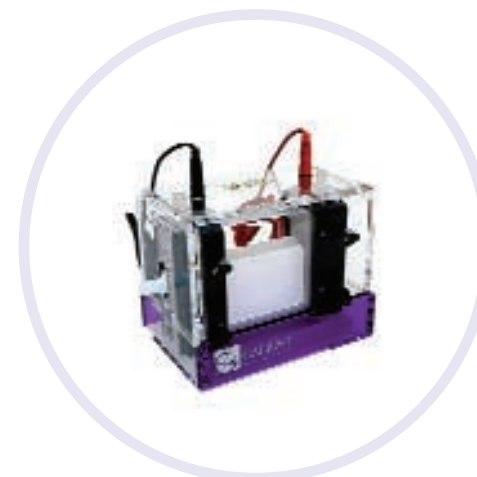
SS350	UV safety cover-specs
SG550	UV safety goggles
SF850	UV face shield

uvisafe



uvigene

High quality thermal cycler for 0.2 or 0.5ml microtubes



uvipage

uvisub

Professional vertical and horizontal electrophoresis equipment

for more information on the above products
visit our website at www.uvitec.co.uk

call us **+44 (0)1223 568060** email uvi@uvitec.co.uk