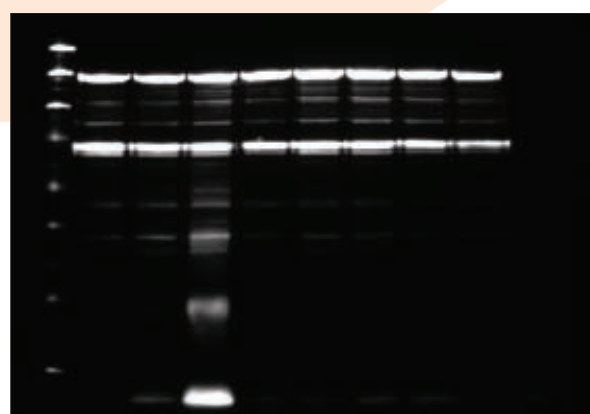
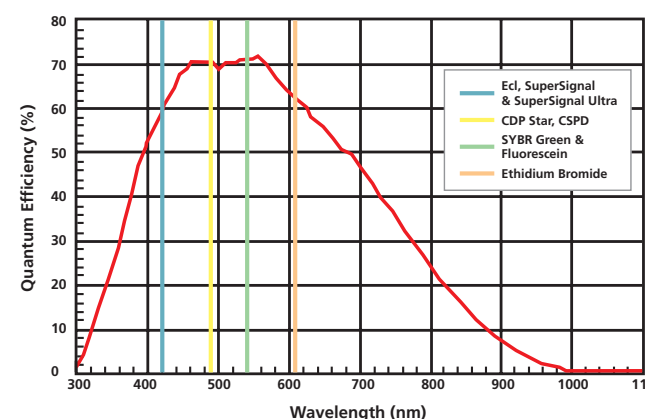


The UVIchemi and UVIprochemi acquisition software facilitates simple and rapid optimisation of images when long exposures are necessary. Automatic exposure mode makes it possible to acquire fully optimised images of the very faintest samples at the push of a button. Varying levels of user control over the image acquisition process are offered by the semi-automatic and manual exposure modes. Acquisition parameters can be saved in configuration files for future use and are automatically saved with each image in a secure GLP file. The attractive software interface features large colour coded buttons and self-evident icon designs to minimise the user learning curve. The UVIprochemi software also includes zoom lens controls and a saturation monitor function.



- Easy to use with Windows® XP style software interface
- Automatic exposure control
- Video mode for sequential capture
- Save individual user settings
- Image saturation monitor
- GLP file automatically saved with each image

Specifications	uvichemi	uviprochemi
<b>Camera</b>	High sensitivity 12-bit, progressive scan, Grade 0 (0 defect) CCD sensor	High sensitivity 12-bit, progressive scan, Grade 0 (0 defect) CCD sensor
<b>Resolution</b>	1280 H x 1024 V effective pixels Pixel size 6.7µm x 6.7µm 640 H x 512 V pixels in 2 x 2 binning mode. Pixel size 13.4µm x 13.4µm	1280 H x 1024 V effective pixels Pixel size 6.7µm x 6.7µm 640 H x 512 V pixels in 2 x 2 binning mode. Pixel size 13.4µm x 13.4µm
<b>Quantum efficiency</b>	70% at 450nm	70% at 450nm
<b>Cooling</b>	-45°C below ambient by a 3-stage Peltier device, Extra Peltier device to cool camera housing	-45°C below ambient by a 3-stage Peltier device, Extra Peltier device to cool camera housing
<b>Lens</b>	Schneider fixed focal length (f: 0.95) manual lens for optimum light collection	motorised zoom lens (11.5-69mm f: 1.4) controlled via software
<b>Darkroom</b>	DNT-6000 cabinet with six-position adjustable tray system. Maximum sample size 21 x 18cm	DBT-8000 cabinet with white light and UV epi-illumination, pull-out transilluminator and 3-position filter wheel.
<b>Software</b>	Software compatible with Windows® 98, 2000 and XP	Software compatible with Windows® 98, 2000 and XP
<b>Ordering information</b>	<b>uvichemi</b> dedicated chemiluminescence imaging system Catalogue No. <b>CAS 6002B</b> DNT-6000 darkroom with six-position tray system, 12-bit cooled CCD camera, fixed focal length, Intel Pentium IV® PC with acquisition card, UVIchemi acquisition software and UVIband analysis software	<b>uviprochemi</b> versatile fluorescence and chemiluminescence imaging system Catalogue No. <b>CAS 8001B</b> DBT-8000 darkroom with 3-position filter wheel and epi-illumination (WL/UV), 12-bit cooled CCD camera, motorised zoom lens, mini UV-transilluminator, UVIprochemi acquisition card and software and UVIband analysis software



ECL, CDP-Star, CSPD, SYBR, SuperSignal, SuperSignal Ultra are the Trademarks of their respective owners.

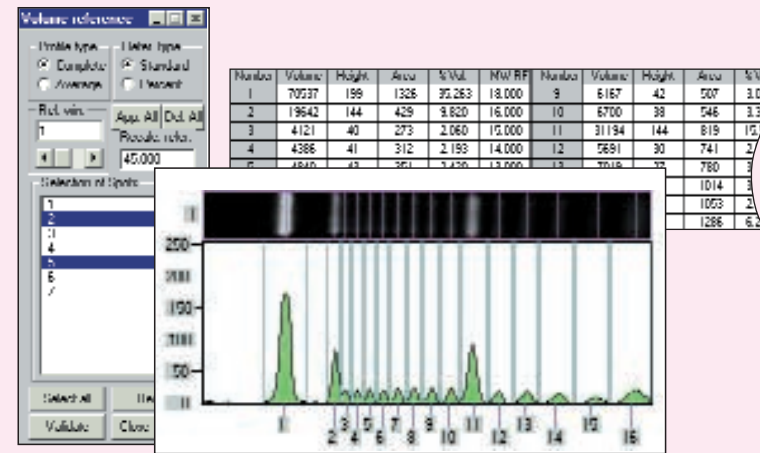
UVIsoft comprises a family of 4 analysis packages, UVIband, UVImap, UVIbandmap for 1D analysis and UVIsport for 2D analysis

- Rapid, accurate and intuitive
- Straightforward, stepwise analysis – no gimmicks
- Attractive, smart user interface
- Automated steps with optional user editing

### UVIband

#### Versatile and powerful quantitative analysis

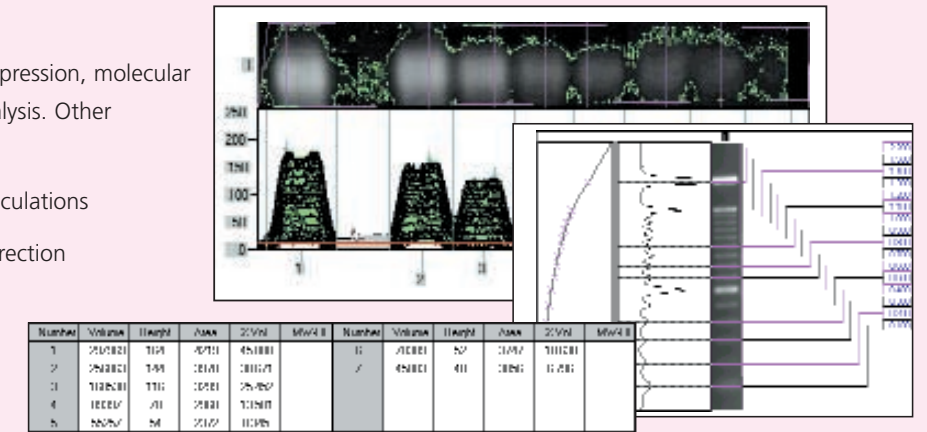
- Precise, accurate band quantification
- Fully automated background subtraction
- Calculates actual 3D volume, not 2D band area
- Relative or absolute band quantities calculable from reference bands or lane



#### Applications include:

PCR, RT-PCR, competitive PCR, protein expression, molecular weight/Rf analysis, dot blot/microtitre analysis. Other features include:

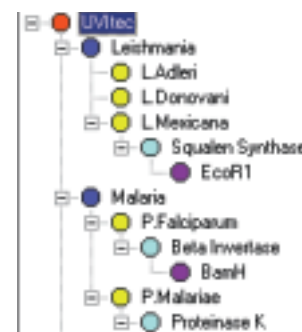
- Simple, reliable molecular weight/Rf calculations
- Automatic or manual gel distortion correction
- Multiple reference lanes for ultimate accuracy
- Dendrogram/band matching analysis



### UVImap

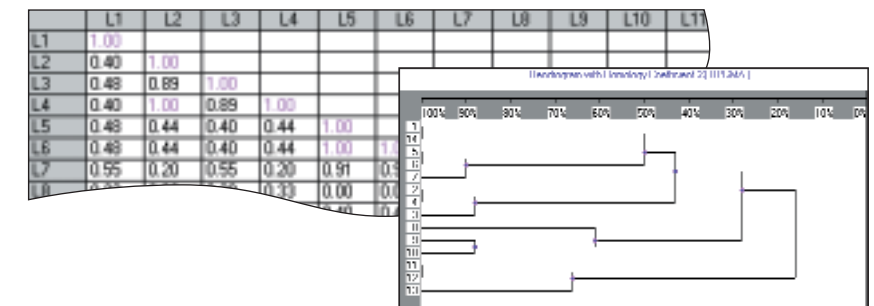
#### Effortless, trouble free comparative analysis

- Password protected database for easy storage and retrieval of molecular weight data
- Database search facility for lane homologies
- Inter gel comparison using matrix and dendrogram analysis
- Multiprobe analysis for RFLP/RAPD



#### Applications include:

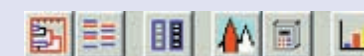
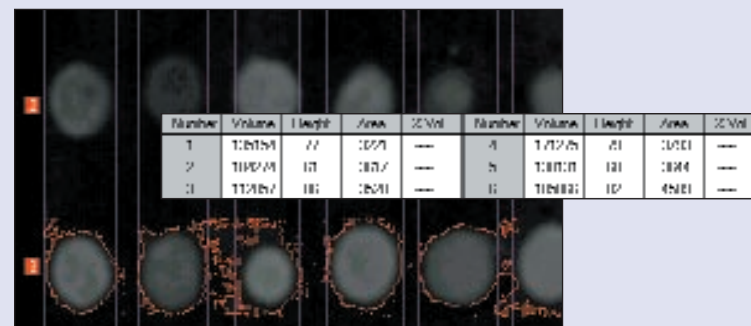
Pattern recognition, DNA mapping, RFLP and RAPD analysis



### UVIbandmap

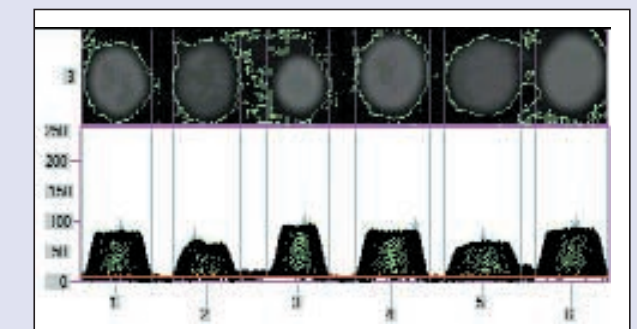
#### The complete all inclusive 1D package

- All the benefits of UVIband and UVImap at your fingertips
- 70+ functions
- The only 1D analysis software you will ever need



All UVIsoft software comes as standard on CD-ROM with comprehensive user manual

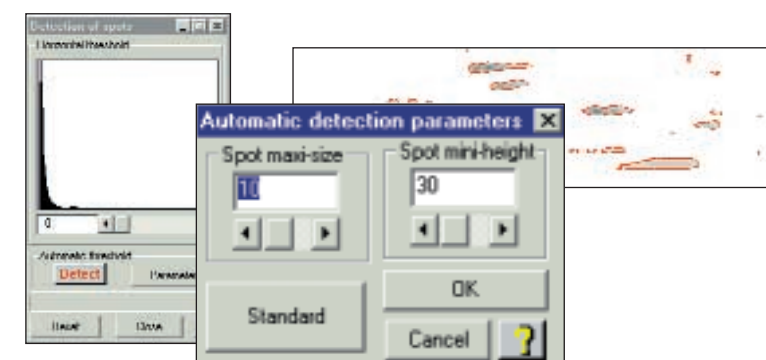
For more details about all software packages listed here, please visit our website: <http://www.uvitec.co.uk>



### UVIsport

#### The inexpensive 2D alternative

- Comprehensive 2D analysis at a 1D price
- Automatic detection of 'matched' spots
- Gel comparison by spot movement, volume variations and presence/absence
- Comparison of up to 256 gels in one experiment
- Up to 9 parameter spot characterisation
- Searchable database for easy archiving and comparison

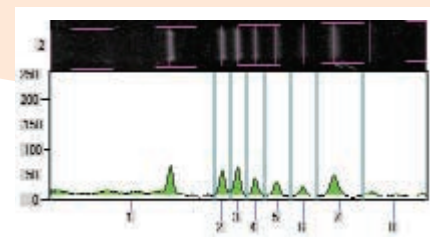
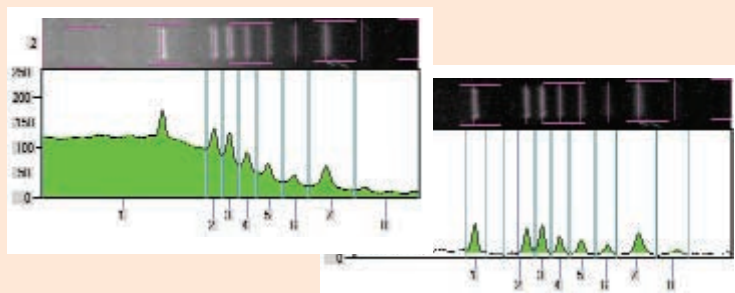
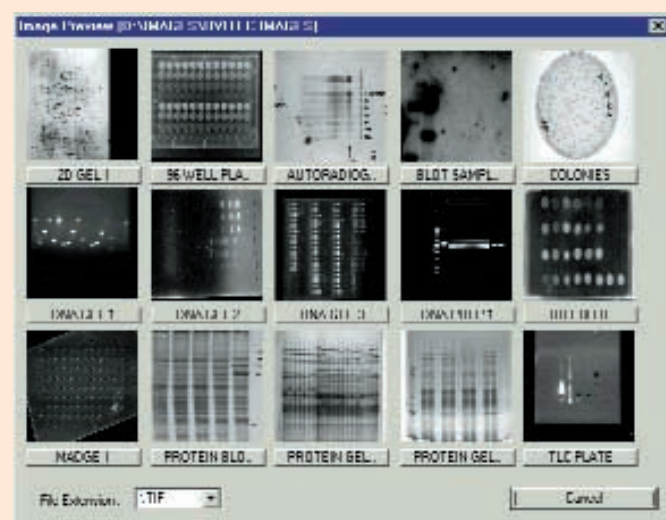


#### Ordering

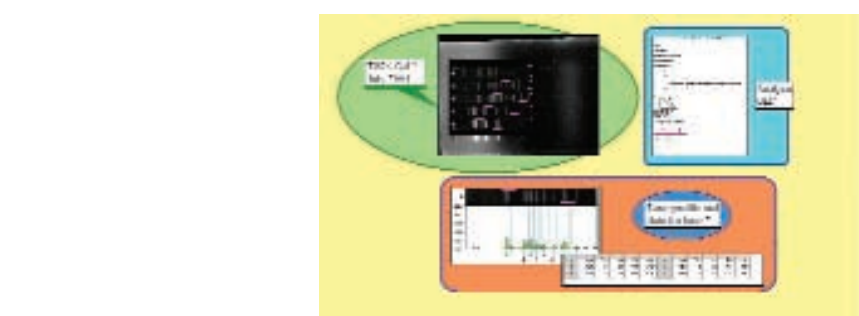
Title	Code	Title	Code
UVIband	UVIB	band + spot	UVIBS
UVImap	UVIM	map + spot	UVIMS
UVIsport	UVIS	bandmap + spot	UVIXS
UVIbandmap	UVIX		

# uvisoft

## gel analysis software



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.



### 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

# 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/cm<sup>2</sup> & 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/cm<sup>2</sup>

**Resolution**  
0.001 mW/cm<sup>2</sup> from 0.000 to 3.500 mW/cm<sup>2</sup>  
0.01mW/cm<sup>2</sup> from 3.51 to 35.00 mW/cm<sup>2</sup>  
0.1mW/cm<sup>2</sup> from 35.1 to 350.0 mW/cm<sup>2</sup>  
Range changes automatically

**Analog output**  
0 to 3.5V for 0 to 350 mW/cm<sup>2</sup>

**Energy measurements**  
Accuracy: 1µJ/cm<sup>2</sup>  
Range 0 to 99999 J/cm<sup>2</sup>

**Resolution**  
0.0001 J/cm<sup>2</sup> from 0.0000 to 9.9999 J/cm<sup>2</sup>  
0.001 J/cm<sup>2</sup> from 10.000 to 99.999 J/cm<sup>2</sup>  
0.01 J/cm<sup>2</sup> from 100.00 to 999.99 J/cm<sup>2</sup>  
0.1 J/cm<sup>2</sup> from 1000 to 9999.9 J/cm<sup>2</sup>  
1 J/cm<sup>2</sup> from 10000 to 99999 J/cm<sup>2</sup>  
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

