Founded in Cambridge in 1996, UVItec designs and manufactures high quality fluorescence and chemiluminescence gel imaging and analysis systems as well as a wide range of ultraviolet light instruments.

At UVItec we give very high priority to technical expertise and customer support for all our products which have quickly become well established in many leading scientific establishments worldwide.
About us
UVitec designs and manufactures high quality fluorescence and chemiluminescence imaging systems and analysis software as well as a wide range of ultraviolet instruments for life science research.

Company roots
Founded in 1996, UVitec has played a leading role in the advancement of molecular imaging for over 10 years by providing innovative camera technology and optical solutions to molecular biology research markets.

Global scope
Based in Cambridge, in the heart of the European Biotech Industry, we focus on producing scientific imaging systems which integrate state of the art optics, hardware and software, optimised for your specific application. Worldwide, the company is renowned amongst all major research centers, universities as well as biotechnology companies for its commitment to quality and customer service. Our global market presence has ensured that over 60,000 scientists have chosen UVitec as their leading molecular biology application partner.

As a company and as individuals we deeply care about the environment and are proud of the many ways in which our employees work to safeguard it.

Imaging technologies
Technology has been propelling our growth: technology that makes sense for you. Pick up many imaging systems and you start to wonder if the designers have ever taken a picture themselves. From start our systems are designed with the user in mind. This means: self-explanatory, clear menus, buttons that are easy to operate, a wide range of automatic settings covering virtually every imaginable application and a protocol-driven working principle. And, if you prefer a more hands-on approach, you will love the manual controls. Our systems have the ability to grow with your need and offer a list of features long enough to satisfy the most demanding lab user.

At UVitec we give very high priority to technical expertise and customer support for all our products which have quickly become favourites in many leading scientific institutions worldwide.

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The resolution and sensitivity orientation
Ideal for chemiluminescence western blot, 1D quantification, 2D gel, multiplexing, bio-fluorescence
Extreme 4.2 megapixel resolution
1.1 inch sensor / 16-bit pixel depth
Extremely bright motorised fixed lens (f:0.95)
'One-touch' image acquisition programme. Lens, lighting and filter wheel fully computer controlled. Protocol-driven image acquisition.

ALLIANCE 4.7
No compromise
Unrivalled sensitivity

ALLIANCE LD4
The highest performance at a budget
All-in-one

ALLIANCE 2.7
Expand your territories
The ideal combination

GEL DOCUMENTATION - COMPUTER BASED SYSTEMS FOR FLUORESCENCE IMAGING

UVIdoc
The all-inclusive stand-alone
Cutting edge performance
- The stand-alone with computer performance
- Ideal for both quantification and publication
- 1.4 megapixels
- 12-bit pixel depth for increased dynamic range
- USB drive saving
- Network capability & internal memory
- 8" TFT grade LCD screen

UVIsave
With one's eyes shut
Basic system with instant results
- As simple as affordable
- Ideal for publication and routine imaging
- The lowest cost CCD scientific grade camera system
- 0.5 megapixel
- TIFF format
- Use with any transilluminator
- 5.6"TFT grade LCD screen

Platinum
The power machine
Massive specifications
- Highest performance gel doc systems available
- 2 megapixels
- 1 inch scientific CCD
- Massive 16-bit pixel depth (65,536 grey levels)
- Prominent pixel size (7.4x7.4µm)
- FireWire connection

FireReader
Expand your territories
Scientific CCD camera
- Extreme sensitivity for the faintest fluorescence sample. Suitable for both critical quantitative applications & routine documentation
- Scientific Sony chip CCD camera
- 1.4 megapixels
- Massive 16-bit pixel depth (65,536 grey levels)
- USB connection

Essential V2
All you need is me
Simple and rapid image acquisition
- Ideal for publication and routine documentation
- The system which fits your budget
- Scientific Sony chip CCD camera
- 1 megapixel – 12-bit pixel depth
- USB connection

STAND-ALONE IMAGING - NO COMPUTER NEEDED FOR FLUORESCENCE IMAGING

NEW
No compromise
Unrivalled sensitivity

Our Alliance 4.7 is incredibly sensitive. Our system is very powerful, fully motorised and automatic. The cutting edge camera and optics deliver ultimate scientific grade images ideal for all our applications in chemiluminescence, fluorescence and multiplexing.

> In the spotlight
The Alliance 4.7 is an advanced imaging system designed to cover a large number of applications thanks to its proprietary optics combined with a deeply cooled 4.2 megapixel, 16-bit pixel depth camera. Ideal for western blot, 1D and 2D gel, fluorescence, absorbance, multiplexing and bioluminescence, the system is extremely sensitive, with extreme resolution and extremely low noise.

> Motorised f0.95 lens
The Alliance 4.7 includes an impressive list of features such as autofocus, auto-exposure, UV security timer, motorised f0.95 lens, motorised filter wheel, 12 wavelength illumination options and a multi-position tray system. The automated imaging approach introduced by the Alliance 4.7 is unique in the market as the lighting filter and the lens positioning are fully automatic.

> Designed to be used
Pick up many imaging systems and you start to wonder if the designers have ever taken a picture themselves. The Alliance 4.7 was designed from the start with the user in mind. This means: menus that make sense, buttons that are easy to understand and to operate, a wide range of automatic settings covering virtually every imaginable application and a protocol-driven working principle. And, if you prefer a more hands-on approach, you will love the manual controls. The Alliance 4.7 has the ability to grow with the user and has a list of features long enough to satisfy the most demanding lab user.

> Get the excitation
Epi-Bright Multi-wavelength is an optional light excitation source which enlarges the wide range of fluorescence dye applications. Enter the exciting, new laboratory world of multiplexing, in-vivo, protein imaging, near IR detection and bio-fluorescence. Epi-Bright applications could include Syber-Green™, Flamingo™, Sypro-Ruby™, Sypro Orange™, Pro-Q™ dyes. Epi-Bright Multi-wavelength features 3 RGB wavelength illuminations on adjustable arms. Simply select the colour channel and get the excitation!

> Chemical attraction
• Chemiluminescence, fluorescence & visible
• Multiplexing and bioluminescence ready
• Quantification & documentation
• Gene expression, protein expression, RNA/DNA assay, colonies
• Open to most dyes available on the market from Invitrogen, GE Life Science, Thermo Pierce, Sigma, Millipore, Promega.

Sensitivity and resolution

> State of the art
• 4.2 megapixels
• 16-bit pixel depth (65 536 grey levels)
• Dynamic range: 4.6 OD
• Extreme sensitivity
• Extreme resolution
• Extremely low noise
• Scientific grade CCD camera
• Electronically variable shutter speed
• 1.1 inch sensor
• Cooling -42°C absolute (-67°C compared to ambient)
• Extremely bright motorised fixed lens (f:0.95)
• Motorised filter wheel
• Automatic lighting controls
• Autofocus
• Auto-exposure
• Focusing gauge for precise focusing
• Compact design
• Ideal for sensitivity demanding applications such as western blot

• Ideal for resolution demanding applications such as 1D quantification, 2D gel, multiplexing, bio-fluorescence and western blot
• Robust steel and stainless steel construction
• Advanced UViband or UViBandmap software available
• Roll-out transilluminator
• Direct access to key functions
• Multi-user capability
• Good Laboratory Practice (GLP) file
• Patented UV-Pure technology available
• One-touch fully automated image acquisition program
• Multi-position filter slide. Custom filters available.
The highest performance at a budget

> Sensitive and versatile
The Alliance LD4 is a versatile imaging system ideal to handle both chemiluminescence and fluorescence imaging applications with ease. The exceptionally sensitive and deeply cooled (to -42°C absolute) camera ensures that the faintest bands can be detected and accurately quantified. The 4.2 megapixel resolution allows closely spaced bands to be easily resolved.

> Affordable western blot imaging
Prepare to throw away any preconceptions about what affordable western blot imaging means. You will be hooked from the moment you pick it up. The Alliance LD4 has an exceptional performance camera combined with fully featured, tough hardware and sophisticated software. In combination with the scientific CCD camera the top quality f0.95 lens ensures high sensitivity and razor sharp imaging.

> Documentation and quantification
The Alliance LD4 is ideal for both documentation and quantification. The fantastic ease of use of the complimentary Alliance 1D software is ideal in a multi-user environment. Users can save and retrieve software preferences to quickly and simplify the image acquisition process. Advanced UVIband or UVIbandmap software could complete your system for sophisticated 1D analysis or database storage of analysed results.

> Tailor your system
The Alliance LD4 is available in a variety of models to fit your budget and application. Options include, for instance, the scientific optics (manual or motorised with autofocus option), the epi-illumination modes (white light or UVA /UVC and white light) and the transluminator technology and size (UVI-Pure or standard). The multi-position filter wheel can accommodate custom filters. The Epi-Bright Multi-wavelength module could also be added to your system to enlarge the wide range of fluorescence dye applications.

> Chemical attraction
- Chemiluminescence, fluorescence & visible
- Multiplexing and bioluminescence ready
- Quantification & documentation
- Gene expression, protein expression, RNA/DNA assay, colonies
- Open to most dyes available on the market from Invitrogen, GE Life Science, Thermo Pierce, Sigma, Millipore, Promega.

We save a lot of time in imaging thanks to the incredible sensitivity of the Alliance LD4. Our system is ideal for all our applications such as gene and protein expression, RNA/DNA assay, in gels or western blot.

The multi-application system
- 4.2 megapixels
- 16-bit pixel depth (65,536 grey levels)
- Dynamic range: 4.8 OD
- Extreme sensitivity
- Extreme resolution
- Extremely low noise
- Scientific grade CCD camera
- Electronically variable shutter speed
- 1.1 inch sensor
- Cooling -42°C absolute (-67°C compared to ambient) for the lowest noise
- Extremely bright manual or motorised fixed lens with aperture f0.95
- Auto-exposure
- Focusing gauge for precise focusing
- Ideal for sensitivity demanding applications such as western blot
- Ideal for resolution demanding applications such as 1D quantification, 2D gel, multiplexing, bio-fluorescence and western blot

The imaging gateway
- 12 wavelength illumination options
- Bio-fluorescence & multiplexing ready
- Multi-position filter slide. Custom filters available
- Suitable for both routine documentation and critical quantitative applications
- Good Laboratory Practice (GLP) file
- Inclusive of free Alliance 1D software for both image acquisition and analysis
- Robust steel and stainless steel construction
- Copy the image to clipboard and paste either in Microsoft Word® or Excel®

UVIband software
### Alliance 4.7

**Close encounter**

- Extreme sensitivity 4.2 megapixels, 16-bit pixel depth, cooled to -67°C
- Fixed lens f:0.95 – manual or motorised. Focusing gauge for precise focusing
- 'One-touch' fully automated image acquisition programme: automatic lens positioning, automatic filter wheel positioning, automatic lighting, auto-exposure
- Bio-fluorescence and multiplexing ready – optional Epi-Bright multi-wavelength ep-illumination source

#### Configuration

- Steel and stainless steel darkroom
- Epoxy-painted for chemical resistance
- Black body imaging grade
- 6-position filter wheel
- UV timer & security switch
- UV security timer
- LED White light epi-illumination

#### Camera & optics

- 4.2 megapixels 16-bit pixel depth (65,536 grey levels)
- Dynamic range: 4.8 OD
- Extreme resolution
- Scientific grade camera with electronically variable shutter speed. Ultra high sensitivity
- 1.1 inch sensor
- Extremely bright fixed lens (f:0.95) – motorised - autofocus
- Cooling -42°C absolute (-67°C compared to ambient) for the lowest noise

#### Software

- Alliance 1D software
  - 'One-touch' fully automated image acquisition programme
  - Image enhancement, annotation and illustration
  - 3 image analysis modules:
    - 1D Molecular weight (MW, volume, intensity,...)
    - Colony counting
    - Distance calculation (RF, IEF,...)

#### Options

- Transilluminator
  - UVI-PURE or standard transilluminator.
  - UV surface: 26x21 or 20x20 cm
  - Single or dual wavelength available
- Light panel
  - UV to white light conversion screen
  - UV to blue light conversion screen
- Epi-Bright module
- Software
  - UVI-Band or UVI-BandMap (p.28 for details)

### Alliance LD4

**Close encounter**

- Extreme sensitivity 4.2 megapixels, 16-bit pixel depth, cooled to -67°C
- Fixed lens f:0.95 – manual or motorised. Focusing gauge for precise focusing
- 'One-touch' fully automated image acquisition programme: automatic lens positioning, automatic filter wheel positioning, automatic lighting, auto-exposure
- Bio-fluorescence and multiplexing ready – optional Epi-Bright multi-wavelength ep-illumination source

#### Configuration

- Steel and stainless steel darkroom
- Epoxy-painted for chemical resistance
- Black body imaging grade
- 6-position filter wheel
- LED White light epi-illumination

#### Camera & optics

- 4.2 megapixels 16-bit pixel depth (65,536 grey levels)
- Dynamic range: 4.8 OD
- Extreme resolution
- Scientific grade camera with electronically variable shutter speed. Ultra high sensitivity
- 1.1 inch sensor
- Extremely bright fixed lens (f:0.95) – manual or motorised
- Cooling -42°C absolute (-67°C compared to ambient) for the lowest noise

#### Software

- Alliance 1D software
  - 'One-touch' fully automated image acquisition programme
  - Image enhancement, annotation and illustration
  - 3 image analysis modules:
    - 1D Molecular weight (MW, volume, intensity,...)
    - Colony counting
    - Distance calculation (RF, IEF,...)

#### Options

- Transilluminator
  - UVI-PURE or standard transilluminator.
  - UV surface: 26x21 or 20x20 cm
  - Single or dual wavelength available
- Light panel
  - UV to white light conversion screen
  - UV to blue light conversion screen
- Epi-Bright module
- Software
  - UVI-Band or UVI-BandMap (p.28 for details)
ALLIANCE 2.7
Expand your territories

The Alliance 2.7 is fully automatic, from the motorised f:0.95 lens to the filter wheel. Just one click is necessary for our protocol-driven image acquisition. The sensitivity and resolution are simply astonishing.

Motorised f:0.95 lens
The Alliance 2.7 includes an impressive list of features such as autofocus, auto-exposure, UV security timer, motorised f:0.95 lens, motorised filter wheel, 12 wavelength illumination options and a multi-position tray system. The automated imaging approach introduced by the Alliance 2.7 is unique in the market as the lighting filter and the lens positioning are fully automatic.

Get the excitation
Epi-Bright Multi-wavelength features 3 RGB wavelength illuminations on adjustable arms. Simply select the colour channel and get the excitation!

Chemical attraction
• Epi-Bright Multi-wavelength
• Multiplexing and bioluminescence ready
• Quantification & documentation
• Gene expression, protein expression, RNA/DNA assay, colonies

Optics
Open to most dyes available on the market from Invitrogen, GE Life Science, Thermo Pierce, Sigma, Milipore, Promega.

Epi-Bright Multi-wavelength

Chemiluminescence & Fluorescence Imaging

ALLIANCE LD2
Affordable and flexible

We are very proud of our Alliance LD2. We use it for chemiluminescence and multiplexing. Our razor sharp images are ideal for quantification and publication. We save a lot of time thanks to the very high sensitivity of the system.

Affordable western blot imaging
Prepare to throw away any preconceptions about what affordable western blot imaging means. You will be hooked from the moment you pick it up. The Alliance LD2 has an exceptional performance camera combined with fully featured, tough hardware and sophisticated software. In combination with the scientific CCD camera the top quality f:0.95 lens ensures high sensitivity and razor sharp imaging.

Tailor your system
The Alliance LD2 is available in a variety of models to fit your budget and application. Options include, for instance, the scientific optics (manual or motorised with autofocus option), the illumination modes (white light or UVA / UVC and white light and the transilluminator technology and the UVI-Band or standard). The multi-position filter wheel can accommodate custom filters.

Chemical attraction
• Epi-Bright Multi-wavelength
• Multiplexing and bioluminescence ready
• Quantification & documentation
• Gene expression, protein expression, RNA/DNA assay, colonies

Options

Transilluminator
UVI-Pure or standard transilluminator.
UV surface: 26x21 or 20x20 cm
Single or dual wavelength available

Software
UVI-Band or UVI-BandMap (p.28 for details)

Software
UVI-Band or UVI-BandMap (p.28 for details)
The power machine
Massive specifications

Size matters - a bit of technology

• 1 inch sensor
  The Platinum 1 inch sensor provides an unrivalled sensitivity for fluorescence and visible application. A CCD chip measures light intensity by collecting the photons on a silica collector. The bigger the collector the more light the camera collects and thus the more sensitive it is, the ultimate for fluorescence applications.

• 2 megapixels
  Platinum high-resolution imaging enables the user to see more details on the gel and improves analysis accuracy. In contrast the low-resolution system contains less quantitative data.

• 16-bit
  The Platinum 16-bit pixel depth ensures rich tonality thanks to its wide dynamic range.

The soft touch

• Make a point...
  Highlight important features with text and symbols. Platinum helps you to annotate and illustrate your image. Save the text as a template and apply the same template to another image.

• Need to quantify or measure?
  Just add a calibration marker for reference or measure the volumes to determine the quantity with our simple 1-2-3 approach.

• WYSIWYG: What you see is what you get
  Our live preview mode ensures quick and easy sample positioning and fine focus.

• Set-up quickly
  Start with a predefined set-up and then optimise it for your particular technique. Name it, save it and then recall it for the next time.

• Make it even better
  Enhance your image with the extensive set of tools such as multicoloured channels, cropping & image additions.

Pick ‘n’ mix

The Platinum is available in a variety of models to fit your budget and application. Options include, for instance, a darkroom cabinet (advanced D77 or economical D55), a zoom lens (manual or motorised with autofocus option), epifluorescence modes (white light or UVA /UVC and white light) and transilluminator technology and size (UVI-Pure or standard, 20x20 or 21x26cm).

We have combined our Platinum system with the UVIpure innovative technology for the imaging of dyes such as SYBR Green and Sypro Ruby. Our image quality has been dramatically enhanced and signal sensitivity is now 25% better compared to a standard system.

The WOW list

• Highest performance gel doc systems available
• 2 megapixels extendable to 7.6 megapixels
• 1 inch scientific CCD
• Massive 16-bit pixel depth (65 536 grey levels)
• Prominent pixel size (7.4x7.4µm)
• FireWire connection
• Auto-exposure
• Autofocus with motorised zoom option
• Focusing gauge for precise focusing
• Extreme sensitivity for the faintest fluorescence sample
• Dynamic range up to 4.8 orders of magnitude
• 10 times optical zoom
• Patented UVI-Pure technology available
• Superto quality camera filter optimised for ethidium bromide
• ‘One-touch’ fully automated image acquisition programme
• Single or dual wavelength transilluminator
• Several epifluorescence options
• Customise your own system with our wide variety of darkrooms and options
• Compact design
• Roll-out transilluminator
• Direct access to key functions
• Multi-user capability
• Good Laboratory Practice (GLP) file
• Protocol-driven image acquisition
• Inclusive of free Platinum 1D software for both image acquisition and analysis
• More than 90 functions
• Publishing & image enhancement features
• Advanced UVband or UVbandmap software available
• Bio-fluorescence and multiplexing ready

Razor sharp imaging
Expand your territories
Scientific CCD camera

> Light your fire
• Sony chip CCD camera
The FireReader high specification systems boast the highest performance cameras available for gel documentation. Based on a Sony chip CCD camera, the superb quality of the camera sensors enables the resolution of intensity over a massive 65,536 grey levels (16-bit) which means extreme sensitivity and a dynamic range of up to 4.8 orders of magnitude. In practice it gives greater confidence to users when imaging even the most difficult and faint fluorescent samples.

• Documentation and quantification
The FireReader is ideal for both documentation and quantification. Thanks to our proprietary technology its superb 1.4 megapixel native resolution can be extended to 5.5 megapixels for the most demanding resolution applications.

> Capture, edit, analyse
• FireReader 1D software
FireReader 1D software is easy to use yet sophisticated enough to allow ultra-precise optimisation when capturing the image. With, for instance, full control of saturation it ensures that all bands are quantifiable with the complimentary FireReader 1D software.
The FireReader 1D software is designed for simple and rapid image acquisition followed by easy image manipulation, annotation, archiving and analysis.

• Multiplexing ready
Special features include binning modes for enhanced sensitivity. All image acquisition parameters can be saved as a file and re-used at any time for a protocol-driven image acquisition process.
The image can be manipulated in a number of ways including contrast and brightness adjustment, mirror imaging, image inversion and annotation (text and symbols). The displayed image can be converted to one of several colour scales (red, blue, green and multicoloured palette) without affecting the data before being analysed to determine molecular weights and optical density.

> Chemical attraction
• Fluorescence & visible
• Quantification & documentation
• Gene expression, protein expression, RNA/DNA assay, colonies
• Open to most dyes available on the market from Invitrogen, GE Life Science, Thermo Fisher, Sigma, Millipore, Promega

We have realised the importance of resolution and pixel depth when doing quantification. We are impressed by the fantastic results we obtain with our FireReader system. All our images are optimised for quantification and quick to take, saving us a lot of time.

> Push the button
• Extreme sensitivity for the faintest fluorescence sample
• Scientific Sony chip CCD camera
• Suitable for both routine documentation & critical quantitative applications
• 1.4 megapixels extendable to 5.5 megapixels
• Massive 16-bit pixel depth (65 536 grey levels)
• Auto-exposure
• Autofocus with motorised zoom option
• Focusing gauge for precise focusing
• Versatile and upgradeable
• 12 wavelength illumination options.
• Bio-fluorescence & multiplexing ready
• Patented UVI-Pure technology available
• Dynamic range up to 4.8 orders of magnitude
• Suitable for both routine documentation and critical quantitative applications
• Versatile and upgradeable

The HOT list
• USB connection
• “One-touch” fully automated image acquisition programme
• Wide variety of darkrooms and options to tailor your own system and fit your budget
• Inclusive of free FireReader 1D software for both image acquisition and analysis
• Single or dual wavelength transilluminator
• Several epi-illumination options
• Superb quality camera filter optimised for ethidium bromide
• Advanced UVIband or UVIbandmap software available
• Bio-fluorescence and multiplexing ready
• Multi-position filter slide. Custom filters available
**All you need is me**
Simple and rapid image acquisition

*We do a lot of routine documentation and we need a robust and easy to use instrument. Our Essential is an all-inclusive system for the price of a basic one. The filter wheel, roll-out transilluminator, quantification software, Sony chip CCD camera are all included.*

> **Capture and print**
In research laboratories where premium quality and precision are required Essential V2 comes into its own.

The Essential V2 is ideal for publication and routine documentation. Based on a Sony chip CCD, the superb quality of the scientific camera sensors enables high sensitivity in low light condition. With no learning curve and only a few buttons to press a high quality print or image file can be produced in seconds. Special features such as autofocus (for the motorised zoom version only), auto-exposure and saturation monitoring of the live image enable the highest precision image optimisation for the most demanding users.

> **Tough hardware**
Essential V2 incorporates the most efficient and versatile darkroom cabinet available. The transilluminator is fully enclosed but can be pulled out easily on a movable tray to allow visual examination of the gel and band extraction. Several choices of overhead illumination are available, including UV and white light options.

> **Set the tone**
The Essential 1D software is designed for simple and rapid image acquisition. Before or after being archived (saved) to the PC as a TIFF file the image can be manipulated in a number of ways including contrast and brightness adjustment, mirror imaging, image inversion and annotation (text and symbols). The displayed image can be converted to one of several colour scales (red, blue, green and multicoloured palette) without affecting the data before being analysed to determine molecular weights and band quantities (optical density).

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**Fulfill your ESSENTIAL need**

> **The cherry on the cake**
- Ideal for publication and routine documentation
- Scientific Sony chip CCD camera
- 1 megapixel – 12-bit pixel depth
- Patented UVI-Pure technology available
- Extreme ease of use
- Auto-exposure
- Autofocus with motorised zoom option
- Focusing gauge for precise focusing
- USB connection
- Comprehensive range of models for any application or budget
- Ideal for multi-user environment
- Good Laboratory Practice file
- Inclusive of free Essential 1D software for both image acquisition and analysis
- Advanced UVIband or UVIbandmap software available
- Robust steel and stainless steel construction
- Wide variety of darkrooms and options to tailor your own system and fit your budget
- Several epi-illumination options
- Compact design
- Roll-out transilluminator
- Single or dual wavelength transilluminator
- Multi-position filter slide. Custom filters available
- Multi-user capability
- Protocol-driven image acquisition
- Direct access to key functions
- Publishing & image enhancement features
- Superb quality camera filter optimised for ethidium bromide
- Copy the image to clipboard and paste either in Microsoft Word™ or Excel™
Massive specifications for the highest performance gel doc systems

- Extreme 2 megapixel resolution
- 1 inch sensor
- Massive 16-bit imaging for enhanced dynamics
- Ideal for resolution demanding applications such as 1D quantification, 2D gel, bio-fluorescence
- FireWire super-fast connection
- ‘One-touch’ fully automated image acquisition programme

The best lab standard

- 1.4 megapixels
- Sony CCD chip camera
- Massive 16-bit imaging for enhanced dynamics
- Ideal for documentation, publication and quantification
- USB connection
- ‘One-touch’ fully automated image acquisition programme

The system which fits your budget

- 1 megapixel / 12-bit imaging
- Sony CCD chip camera
- ‘One-touch’ fully automated image acquisition programme

D77 cabinet
Anatomical discovery

- Manual or motorised zoom lens options
- Patented focusing assistant
- Autofocus mode for the motorised zoom lens option

- Multi-position filter wheel
- White light (fluorescent tube)
- Optional dual UV epi 312 & 365 nm for preparative work
- White light / blue light conversion screen available

- Choice of 12 illumination options
- Bio-fluorescence and multiplexing ready – optional
- Epi-Bright Multi-wavelength source – optional

D55 cabinet
Anatomical discovery

- Manual or motorised zoom lens options
- Patented focusing assistant
- Autofocus mode for the motorised zoom lens option

- Multi-position filter wheel
- White light (fluorescent tube)
- Optional dual UV epi 312 & 365 nm for preparative work
- White light / blue light conversion screen available

- Choice of 12 illumination options
- Bio-fluorescence and multiplexing ready – optional
- Epi-Bright Multi-wavelength source – optional

Options

- UV-Pure transilluminator
- Manual or motorised zoom lens
- Advanced UVI-Band or UVI-BandMap software.

Software

- Platinum 1D software
  - ‘One-touch’ fully automated image acquisition programme
  - Image enhancement, annotation and illustration
  - 3 image analysis modules: - Molecular weight (MW, volume, intensity…)
  - Colony counting
  - Distance calculation (RF, IF…)
- FireReader 1D software
  - ‘One-touch’ fully automated image acquisition programme
  - Image enhancement, annotation and illustration
  - 3 image analysis modules: - Molecular weight (MW, volume, intensity…)
  - Colony counting
  - Distance calculation (RF, IF…)

Configuration

- D55 or D77 cabinet configuration available
- D55 or D77 cabinet configuration available
- D55 or D77 cabinet configuration available

Camera & optics

- 3 megapixels / 16-bit imaging (65 536 grey levels)
  - Dynamic range: 4.8 OD
  - Extremely sensitive
  - Scientific grade camera with electronically variable shutter speed
  - 3 inch sensor
  - Pixel size: 7.4 x 7.4 microns
  - FireWire super fast connection
  - 10 times optical zoom
  - 4 binning modes available

- 1.4 megapixels / 16-bit imaging (65 536 grey levels)
  - Dynamic range: 4.8 OD
  - Extremely sensitive
  - Scientific Sony chip CCD camera with electronically variable shutter speed
  - USB connection
  - 6 times optical zoom
  - 2 binning modes available

- 1 megapixel / 12-bit imaging
  - Super high sensitivity
  - Scientific Sony chip CCD camera
  - USB connection
  - 6 times optical zoom
  - 1 binning mode available

Options

- UV-Pure transilluminator
- Manual or motorised zoom lens
- Advanced UVI-Band or UVI-BandMap software.

Software

- Platinum 1D software
  - ‘One-touch’ fully automated image acquisition programme
  - Image enhancement, annotation and illustration
  - 3 image analysis modules: - Molecular weight (MW, volume, intensity…)
  - Colony counting
  - Distance calculation (RF, IF…)
- FireReader 1D software
  - ‘One-touch’ fully automated image acquisition programme
  - Image enhancement, annotation and illustration
  - 3 image analysis modules: - Molecular weight (MW, volume, intensity…)
  - Colony counting
  - Distance calculation (RF, IF…)

Options

- UV-Pure transilluminator
- Manual or motorised zoom lens
- Advanced UVI-Band or UVI-BandMap software.
The all-inclusive stand-alone system with computer performance

Do the job in the lab and download your image from the comfort of your office thanks to the easy-share network connection and the huge UVIdoc internal memory. This could protect your office from ethidium bromide contamination. Alternatively, the image can be saved on your USB key for future transfer to your computer.

No more queues for documentation

Many laboratories have already discovered the benefits of UVIdoc’s speed and simplicity. With no learning curve and only a few buttons to press a high quality printout or a saved image can be produced in seconds, making darkroom queuing a thing of the past.

The safety, speed and robustness of UVIdoc have even made it an essential tool in many teaching laboratories, the ultimate multi-user environment!

The UVIdoc is a superbly designed documentation system featuring a unique combination of simplicity and versatility. It operates as a stand-alone unit for producing high quality megapixel images. These can be easily saved on a USB drive or transferred to a computer via the network LAN.

USB drive and network capabilities

A unique feature of the UVIdoc is its IP internet capability enabling connection of the system to your lab network. Do the job in the lab and download your image from the comfort of your office thanks to the easy-share network connection and the huge UVIdoc internal memory. This could protect your office from ethidium bromide contamination.

Alternatively, the image can be saved on your USB key for future transfer to your computer.

Technology with simplicity

The unique massive 12-bit and 1.4 megapixel performance delivers a high signal-to-noise ratio producing perfect imaging for both quantification and publication. UVIdoc HD2 incorporates the most efficient and versatile darkroom cabinet available. The transilluminator is fully enclosed but can be pulled out easily on a movable tray to allow visual examination of the gel and band extraction.

The saturation monitoring of the live image ensures that fully quantifiable images can be captured first time. The built-in super giant digital monitor allows a convenient and comfortable preview of the image with a very simple and elegant user interface.

Complimentary UVIdoc 1D software

The complimentary UVIdoc 1D software provides a comprehensive set of image acquisition, enhancement and analysis tools. From molecular weight to colony counting, UVIdoc 1D is perfect for both analysis and gel annotation plus editing.

The analysis module includes molecular weight and volume calculation, IEF and colony counting.

Cutting edge performance

- Simplicity and versatility
- Stand-alone: no additional computer needed
- Ideal for multi-user environments
- All the flexibility of an instant photography system
- 1.4 megapixels
- 12-bit pixel depth for increased dynamic range
- Extreme sensitivity for the faintest fluorescence sample
- Suitable for both routine documentation & critical quantitative applications
- Saturation monitoring of live images to ensure they are fully quantifiable
- Roll-out transilluminator
- UV safety switch
- Very large field of view
- Patented UVI-Pure technology available
- Robust steel and stainless steel construction

SUNSHINE in your lab
With one’s eyes shut
Gel watch

We found the UVIsave very user friendly: just click and print. The image quality is perfect for documentation. We particularly like the pixel saturation warning which ensures optimum quality of our final image.

> Instant and instinctive
Gel your instant printing in seconds. The UVIsave interface is simplicity itself. Exposure time is varied by pressing a '+' button to increase and a '-' button to decrease. Simply place the camera hood over the gel, optimise the image whilst viewing it on the built-in super large LCD screen, freeze the image then print it on the video printer or save it on a Compact Flash. The scientific grade optics and Sony camera provide supreme imaging performance.

> For your gel only
UVIsave is currently used in many research departments as a central facility for a large number of users. The speed and robustness of the UVIsave have made it an essential tool in many teaching laboratories, the ultimate multi-user environment.

UVIsave has all the flexibility of an instant photography system combined with the speed, versatility and precision of a video documentation system. Unlike digital camera systems UVIsave allows the optimisation of your gel before you produce a print.

> Starware
UVIsave’s special combination of simplicity and functionality has made it indispensable to a wide range of users. The saturation monitoring function means that UVIsave can be used by researchers who wish to quantify their gel images and to ensure no loss of detail from the image caused by saturation. The system can therefore be used on a variety of levels: from routine documentation to image publishing. The exposure time could range from 40ms to 10 seconds. All functions are accessed by a single push of a button.

> Always ready
Because UVIsave is so simple to operate minimal training is required. UVIsave works with virtually any UV or white light transilluminator. The user interface includes a special keypad specifically designed for just-wipe-it-off cleaning. The high-grade TFT LCD monitor is protected by glass for enhanced robustness.

> Complimentary UVIsave 1D software
The complimentary UVIsave 1D software provides a comprehensive set of image acquisition, enhancement and analysis tools. From molecular weight to colony counting, UVIsave 1D is perfect for both analysis and gel annotation plus editing.

The analysis module includes molecular weight and volume calculation, IEF and colony counting.

We found the UVIsave very user friendly: just click and print! The image quality is perfect for documentation. We particularly like the pixel saturation warning which ensures optimum quality of our final image.

> Basic system with instant results
- As simple as affordable
- Ideal for publication and routine imaging
- All the flexibility of an instant photography system
- Speed, versatility and precision
- Low cost documentation system with CCD scientific grade camera
- Sony camera
- The world’s simplest gel documentation system
- Stand-alone; no additional computer needed
- Ideal for multi-user environments
- Now with 5.6” TFT grade LCD screen
- Flexible – use with virtually any transilluminator
- Patented UVI-Pure technology available
- Print on a video printer or save on a Compact-Flash
- Get your instant printing in seconds
- Unlike digital camera systems, set your exposure time and monitor the saturation

STARWARE

- UVIsave incorporates a user interface which is simplicity itself: all functions are accessed by a single push of a button
- 6 times optical zoom
- Very large field of view
- Ultra compact, rapid and easy to use
- Superb quality camera filter, optimised for ethidium bromide
- Saturation monitoring
- Free UVIdoc 1D software included for both image acquisition and analysis
Scientific Sony chip CCD camera with electronically variable shutter speed 1.4 megapixels / 12-bit imaging (4,096 grey levels)

Extreme sensitivity
6 times optical zoom

UVIdoc 1D software
Image enhancement, annotation and illustration.
- 3 image analysis modules:
  - 1D molecular weight (MW, volume, intensity…)
  - Colony counting
  - Distance calculation (RF, IEF…)

Options
- Transilluminator
  - UV-PURE or standard transilluminator
  - UV surface: 26x21 or 20x20 cm
  - Single or dual wavelength available
- Light panel
  - UV to white light conversion screen
  - UV to blue conversion screen
- Software
  - Advanced UVI-Band or UVI-BandMap software
  - See page 28 for details

UVIsave
INSTANT & INSTINCTIVE

Fluorescence
The stand-alone with computer performance
- Extreme sensitivity for the faintest fluorescence sample
- Simplicity and versatility
- Suitable for both routine documentation & critical quantitative applications
- USB drive and network capabilities
- Megapixel imaging

Configuration
- Super large built-in 8” TFT LCD display.
- HD2 darkroom
- Steel and stainless steel darkroom
- Epoxy-painted for chemical resistance
- Black body imaging grade
- 3-position filter wheel
- 8-Watt built-in roll-out transilluminator
- UV timer & security switch
- White light epi-illumination

Software
Advanced UVI-Band or UVI-BandMap software.
- See page 28 for details
Effortless 1D analysis
The complete all-inclusive 1D package

Our UViband delivers powerful and accurate analysis. We value its fast, consistent analysis and its effortless approach. It includes functions particularly useful for quantification of gels, blots, dot blots, microtitre plates plus colony counting.

First in lane
UViband software is designed for powerful and accurate analysis of 1D gels to produce molecular weight and quantitative data. In addition to that it also includes methods for analysis of gels, blots, dot blots, slot blots, arrays, microtitre plates plus colony counting.

In designing UViband packages we have taken a realistic, professional, friendly approach and included features that are of genuine benefit to the user.

UViband is the most automated 1D software where saving an analysis as a template and then recalling it and applying it to a new image are possible.

Analysis in the UViband package is performed in stages, step by step. At each analysis stage the user has the facility to check and (if necessary) edit the results of automatic analysis processes.

Designed to be used
Pick up many imaging software packages and you start to wonder if the designers have ever performed an image analysis themselves. From the start the UViband was designed with the user in mind. This means menus that make sense, buttons that are easy to understand and operate, and a wide range of automatic settings covering virtually every imaginable general molecular biology macro-imaging application.

Moreover, if you prefer a more hands-on approach you will love the manual controls.

The UViband has the ability to grow with the user and has a feature list long enough to satisfy the most demanding lab user. In research laboratories, where premium accuracy, consistency, ease of use and automation are required, UViband comes into its own.

Powerful
UViband analysis software includes the option of reliable, fully automatic background subtraction with ‘rolling ball’ method for band quantification. It also offers optional methods for correction of gel distortions during molecular weight calculations such as smiling correction and molecular weight calibration across several channels.

Versatile
In addition to the incredibly broad range of analysis functions available in this software there are also functions to facilitate data presentation, reports and posters. The analysis can be saved as a template so the same report can be prepared from other data.

Thus, UViband facilitates data presentation for easy preparation of reports and posters using analysis tables and figures with the standard copy/paste approach. Software output can be simply copied/pasted to Microsoft Excel™ or Word™.

Razor sharp results

Precise and accurate quantification
- 1D molecular weight & optical density
  - Detect the lanes automatically
  - Add new standards and create your own standard library
  - Define a template for automatic analysis of multiple gels
  - View the lanes/area profile in 2D or 3D
  - Select one from several algorithms to generate dendrograms: UPGMA, Complete Linkage, Single Linkage, Ward, Neighbor Joining, …
  - Define a calibration curve for normalisation of one or several lanes
- 1D lanes / Free form optical density
  - Trace any area of analysis
  - Subtract image background using one of several approaches: automatic rolling ball, local baseline, complete baseline, local valley to valley, complete valley to valley...

• Calculates concentration automatically using your standard
• Array optical density module
• Auto-trace an array / microarray grid tool for spot detection
• Define outer and inner spot diameter prior to analysis
• Rotate the grid vertically or horizontally
• Calculate concentration automatically using your standard
• Define a calibration curve for normalisation
• Colony counting
  - Control detection sensitivity with a simple control slider bar
  - Filter your data to include or exclude detected colonies automatically
  - Characterise the colony (volume, area, perimeter, gravity, compactness, eccentricity…)
UVIbandmap is a powerful 1D analysis software complete with a database component which enables the archiving of the analysed results and cross experiment investigation of band matching patterns across a large population of samples.

You can analyse the matching of lanes across different cluster groups. In such a case each individual lane can be compared to any other lane within your defined database scope. The results can be presented as a dendrogram or in a table which can then be re-ordered and ranked for convenient viewing.

You can set a query for a specific band or band patterns which have been identified in a lane. Your query is controlled with different parameters including confidence interval.

Flexible
We offer two different database software packages:
• UVIbandmap: Includes all characteristics and functions of a UVIband plus all database features. The complete solution for 1D gel analysis!
• UVImap: Includes functions for routine 1D gel analysis and special database function that facilitates comparison of band patterns with multiple gels.

UVIbandmap software includes:
Database management
• Complete integration of the molecular weight analysis and the database functions for easy gel and lanes archiving and queries
• Organise the database using Windows Explorer within a tree-like structure with username and password to manage access to your data
• Export & import selected parts of the library for inter-laboratory collaboration

Matching / Dendrogram
• Match band data patterns across large groups of lanes or individual pairs or groups of lanes with matching tolerance coefficient
• Select one of several similarity coefficients including Dice and Jaccard
• Select one from several algorithms to generate dendrograms: UPGMA, Complete Linkage, Single Linkage, Wad, Neighbor Joining, …

Identification of a lane from a database
• Perform queries on the whole database or any selected cluster to retrieve lanes according to several possible criteria

Multiprobe analysis
• Extract lanes from a specific database and select the lanes to be compared within a confidence interval

A realm of possibility
The UVI1D software facilitates instinctive image acquisition, simple optimisation of images and rapid analysis. The UVI-1D software is offered with all our UVItec imaging systems and perfectly complements our state of the art hardware.

Your gel ON live!
Our live preview mode ensures quick and easy sample positioning and fine focus.

Your kids could do it!
Start with a predefined set-up then optimise it for your particular technique. Name it, save it and then recall it for the next time. The attractive interface of the software features large colour-coded buttons and self-evident icon designs to minimise the users’ learning curve.

Getting the word out...
Highlight important features with text and symbols. UVI-1D helps you to annotate and illustrate your image.

Auto is our motto
Follow the path. Image acquisition is protocol-driven. Acquisition parameters can be saved in configuration files for future use and are automatically saved with each image in a secure GLP file. Autofocus and auto-exposure are considered a must.

Create vibrant images
Enhance your image with the extensive and readily available set of tools such as multiple colour channels, cropping and image additions.

Need to quantify or measure?
Just add a calibration marker for reference or measure the volumes to determine the quantity with our simple 1-2-3 approach.

UVI 1D software includes:
Molecular weight and volume calculation
• Detect the lanes and affect a standard to calculate their molecular weight automatically
• Define a threshold and calculate the band’s volume

Rf (IEF)
• Calculate the pH or the RF values
• Define the origin & the end as well as the standard for measurement

Colony counting
• Control the detection sensitivity with a simple control slider bar
• Display the colony number directly on the image
• Characterise the colony (volume, area, perimeter, gravity, compactness, eccentricity…)

Our UVI software is so elegant! We love it for its ease of use, its appealing interface and its long list of features that convert images into useful, publishable data. It includes image acquisition, enhancement and analysis functions for gels, blots and colonies.

Our UVI software is so elegant! We love it for its ease of use, its appealing interface and its long list of features that convert images into useful, publishable data. It includes image acquisition, enhancement and analysis functions for gels, blots and colonies.

Thanks to our UVIbandmap database software we can archive our analysed results securely in user defined clusters. We can also, under a range of criteria, effortlessly retrieve results from an easily defined whole database or a specific group.

The knowledge base
UVIbandmap is a powerful 1D analysis software complete with a database component which enables the archiving of the analysed results and cross experiment investigation of band matching patterns across a large population of samples. You can analyse the matching of lanes across different cluster groups. In such a case each individual lane can be compared to any other lane within your defined database scope. The results can be presented as a dendrogram or in a table which can then be re-ordered and ranked for convenient viewing. You can set a query for a specific band or band patterns which have been identified in a lane. Your query is controlled with different parameters including confidence interval.

Flexible
We offer two different database software packages:
• UVIbandmap: Includes all characteristics and functions of a UVIband plus all database features. The complete solution for 1D gel analysis!
• UVImap: Includes functions for routine 1D gel analysis and special database function that facilitates comparison of band patterns with multiple gels.
UVIPURE 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.

UVIVUE 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 ‘ondules’ 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.

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.

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
<th>Filter (cm)</th>
<th>Tube &amp; wavelength (nm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BTS-20.W</td>
<td>UV to white light conversion screen</td>
<td>20x20</td>
<td>6 x 8W – White light</td>
</tr>
<tr>
<td>FC-26.WL</td>
<td>UV to white light conversion screen</td>
<td>26x21</td>
<td>6 x 8W – White light</td>
</tr>
<tr>
<td>FC-26.BL</td>
<td>UV to blue light conversion screen</td>
<td>26x21</td>
<td>6 x 8W – Blue light</td>
</tr>
</tbody>
</table>

Ordering – 8 watt transilluminator

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
<th>Filter (cm)</th>
<th>Tube &amp; wavelength (nm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BXT-F26.M</td>
<td>Hi/Lo intensity 26x21</td>
<td>6 x 8W – 302nm</td>
<td></td>
</tr>
<tr>
<td>BXT-F26.M</td>
<td>Hi/Lo intensity 26x21</td>
<td>6 x 8W – 302nm</td>
<td></td>
</tr>
<tr>
<td>BXT-F15.M</td>
<td>Hi/Lo intensity 15x15</td>
<td>6 x 8W – 302nm</td>
<td></td>
</tr>
<tr>
<td>BXT-F26.S</td>
<td>Hi/Lo intensity 26x21</td>
<td>6 x 8W – 254nm</td>
<td></td>
</tr>
<tr>
<td>BXT-F26.L</td>
<td>Hi/Lo intensity 26x21</td>
<td>6 x 8W – 365nm</td>
<td></td>
</tr>
<tr>
<td>BXS-20.W</td>
<td>Hi/Lo intensity 20x20</td>
<td>6 x 8W – White light</td>
<td></td>
</tr>
</tbody>
</table>

Ordering – 2 wavelengths transilluminator

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
<th>Filter (cm)</th>
<th>Tube &amp; wavelength (nm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BTS-26.LM</td>
<td>Hi/Lo intensity 26x21</td>
<td>6 x 8W – 365nm</td>
<td></td>
</tr>
<tr>
<td>BTS-20.LM</td>
<td>Hi/Lo intensity 20x20</td>
<td>6 x 8W – 302nm</td>
<td></td>
</tr>
<tr>
<td>BTS-26.LS</td>
<td>Hi/Lo intensity 26x21</td>
<td>6 x 8W – 254nm</td>
<td></td>
</tr>
</tbody>
</table>

Ordering – 15 watt transilluminator

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
<th>Filter (cm)</th>
<th>Tube &amp; wavelength (nm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SXT-F26.M</td>
<td>Hi/Lo intensity 26x21</td>
<td>6 x 15W – 302nm</td>
<td></td>
</tr>
<tr>
<td>SXT-F26.M</td>
<td>Hi/Lo intensity 26x21</td>
<td>6 x 15W – 302nm</td>
<td></td>
</tr>
<tr>
<td>SXT-F20.M</td>
<td>Hi/Lo intensity 20x20</td>
<td>6 x 15W – 302nm</td>
<td></td>
</tr>
</tbody>
</table>

Ordering – UV / white light transilluminator

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
<th>Filter (cm)</th>
<th>Tube &amp; wavelength (nm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>STS-20.W/M</td>
<td>Single intensity</td>
<td>20x20 UV &amp; 20x20 white light</td>
<td></td>
</tr>
<tr>
<td>STS-20.W/S</td>
<td>Single intensity</td>
<td>20x20 UV &amp; 20x20 white light</td>
<td></td>
</tr>
<tr>
<td>STS-20.W/L</td>
<td>Single intensity</td>
<td>20x20 UV &amp; 20x20 white light</td>
<td></td>
</tr>
</tbody>
</table>
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

BIO-SUN
Accurate UV irradiation of Petri dishes or microplates

BIO-Sun is a complete microprocessor-controlled UV irradiation system designed for Petri dishes or microplates. Based on a programmable microprocessor the system constantly monitors UV light emission. The irradiation stops automatically when the received and programmed energies match. Advanced UV sensors enable the irradiation cycles to be perfectly reproducible, irrespective of the intensity of fluctuation of the UV source. Just program your energy and BIO-Sun delivers it!

- Scientific grade UV irradiation system
- Perfectly reproducible UV irradiation cycles
- Highly homogeneous UVA and UVB sources (302 and 365nm). UVA, UVB or UVA & UVB irradiation
- UVC 254nm germicidal lamps for tray sterilisation
- Silicon photodiode sensor for direct measurement of UV intensity
- Data acquisition controlled by microprocessor
- Constant monitoring of received versus programmed energy
- Temperature, UV intensity and time-passed supervision
- Powerful cooling system
- Optional software connection for data monitoring and recording
- Exceptional ease of use & maintenance

Specifications

<table>
<thead>
<tr>
<th>Features</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UV source</td>
<td>&lt;5W, either in 254, 302 or 365nm Interchangeable wavelengths</td>
</tr>
<tr>
<td>Maximum time and energy</td>
<td>Maximum time exposure: 999.9 minutes Maximum energy exposure: 99.99 J (UV-A) Two measurement ranges: 0 - 99.99 J or/and 0 - 9.999 J</td>
</tr>
<tr>
<td>Controls</td>
<td>Preset or manual controls for both energy and time exposure. 9 presets for both energy and time exposure.</td>
</tr>
<tr>
<td>Internal dimension</td>
<td>H145xD330xW260</td>
</tr>
<tr>
<td>External dimension</td>
<td>H305xD360xW350</td>
</tr>
</tbody>
</table>

Ordering

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

BIO-SPECTRA
Accurate UV irradiation of in vivo sample

BIO-Spectra is an irradiation system for photo-sensitisation testing in vivo samples (photo-toxicity, photo-allergy...). The UV irradiation dosage is programmed by the user. The UV sensor constantly measures the irradiation. It stops automatically when the energy received matches the energy programmed. Thus, the system ensures absolute reproducibility.

- Scientific grade UV irradiation system
- Perfectly reproducible UV irradiation cycles
- Three irradiation modes (365nm or 302nm or both)
- Excellent homogeneity of the irradiated area
- Data acquisition controlled by microprocessor
- Constant monitoring of received versus programmed energy
- Temperature, UV intensity, and time-passed supervision
- At animal level temperature does not exceed 30°C (86°F) for room temperature of 20°C (68°F)
- Optional software connection for data monitoring and recording
- Exceptional ease of use & maintenance

Specifications

<table>
<thead>
<tr>
<th>Features</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UV source</td>
<td>4x30W 365 nm UV source</td>
</tr>
<tr>
<td></td>
<td>2x30W 302nm UV source</td>
</tr>
<tr>
<td></td>
<td>1x30W 254nm for receptacle sterilisation</td>
</tr>
<tr>
<td>Temperature</td>
<td>Maximum 30°C in the sample receptacle for an external temperature of 20°C</td>
</tr>
<tr>
<td>Homogeneity</td>
<td>+/- 7%</td>
</tr>
<tr>
<td>Irradiation area</td>
<td>260x210mm for Petri dishes 260x90mm for microplate (i.e. 2 96 wells microplates)</td>
</tr>
<tr>
<td>External dimension</td>
<td>L110x90x90mm</td>
</tr>
</tbody>
</table>

Specifications

<table>
<thead>
<tr>
<th>Features</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UV source</td>
<td>2x30W 365 nm UV source</td>
</tr>
<tr>
<td></td>
<td>1x30W 302nm UV source</td>
</tr>
<tr>
<td>Temperature</td>
<td>Maximum 30°C in the sample receptacle for an external temperature of 20°C</td>
</tr>
<tr>
<td>Irradiation area</td>
<td>900 x 80 mm, enough to accommodate 10 guinea pigs simultaneously</td>
</tr>
<tr>
<td>External dimension</td>
<td>L110x90x90mm</td>
</tr>
</tbody>
</table>
UV LAMPS

UVICAB
Ultrasound viewing cabinet

CV-415 cabinet
Professional unit for effective viewing with power intensity unhulled 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 UVItec, 6W UV lamps
- Choose from 254, 302 or 365nm wavelengths
- Viewing port with UV absorbing filter

Ordering
<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
<th>Tube &amp; Wavelength</th>
<th>Intensity</th>
<th>External size</th>
</tr>
</thead>
<tbody>
<tr>
<td>CV-006</td>
<td>Mini cabinet</td>
<td>1 x 4W 365</td>
<td>1800*</td>
<td>359x82x65</td>
</tr>
<tr>
<td>CV-006BL</td>
<td>Mini cabinet</td>
<td>1 x 4W 365</td>
<td>1800*</td>
<td>359x82x65</td>
</tr>
</tbody>
</table>

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

LIACCESSORIES
Lamp accessories

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

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/marking, counterfeit note detection, rodent contamination detection, medisn control, aflatoxin detection, signature verification.

Ordering
<table>
<thead>
<tr>
<th>Model No.</th>
<th>Type</th>
<th>Compatibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>LS-09</td>
<td>Stand</td>
<td>For U or BL lamps, 4, 6 or 8 W</td>
</tr>
<tr>
<td>LS-15</td>
<td>Stand</td>
<td>For U or BL lamps, 15 W</td>
</tr>
</tbody>
</table>

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

UVILITE
Ultrasound 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, fluorochromy, mineralogy, photo-polymerisation, mutation studies, toxicology.
- Mid wavelength (302nm): electrophoresis gel viewing.
- Long wavelength (365nm): TLC plate viewing, fluorochrome, food inspection, quality control, titration, pesticide analysis, mineralogy.

Ordering
<table>
<thead>
<tr>
<th>Model No.</th>
<th>Filter</th>
<th>Tube</th>
<th>Wavelength</th>
<th>Intensity at 15cm</th>
<th>External size</th>
</tr>
</thead>
<tbody>
<tr>
<td>LF-115M</td>
<td>80 x 300</td>
<td>1 x 6W</td>
<td>254</td>
<td>1100</td>
<td>505x140x100</td>
</tr>
<tr>
<td>LF-115L</td>
<td>50 x 150</td>
<td>1 x 6W</td>
<td>365</td>
<td>1100</td>
<td>282x82x65</td>
</tr>
</tbody>
</table>

LI-340BL
3 x 40W BLB 303 1288x140x108
LI-240BL
2 x 40W BL 302 1288x140x108
LI-340BLS
2 x 40W BLB 302 1288x140x108
LI-340BS
3 x 40W BL 302 1288x140x108
All versions of CV 415 fitted with 1 x 40Watt white light bulb
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).