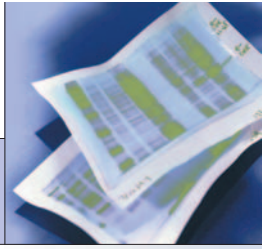


UVIsave Gel Documentation Systems

- The world's simplest gel documentation system
- Flexible - use with any transilluminator
- Portable and versatile with no compromise on quality
- Ultra-compact, rapid and easy to use
- Saturation warning monitor

The UVIsave is a simple portable system for printing an image or saving it as a TIFF computer file. It is an ideal budget system where speed is important and computer archiving is desirable. Works with any UV or white light transilluminator. Simply place camera hood over gel, optimise image whilst viewing it on the built-in 4 inch LCD screen, freeze image, then print to video printer or save on floppy disk. The UVIsave does not need a PC to run the system. It is a stand alone CCD video camera based gel documentation system with no compromise on quality.

With UVIsave, you can adjust zoom, aperture, focus and integration time and see the effects of the adjustments before image capture. This reduces the cost of obtaining a satisfactory 'hard copy' image considerably. Also, since you can see an instant preview of any image adjustments, the entire process takes only seconds. The UVIsave includes a saturation warning monitor.

UVIsave includes a floppy disk-drive unit, which allows the captured image to be saved in a TIFF format, opening up a wide range of modification, printing and analysis options. A PC software package is supplied for this purpose.

Please note a UV transilluminator is not included with the UVIsave system but can be purchased as an accessory.

286-752

286-227

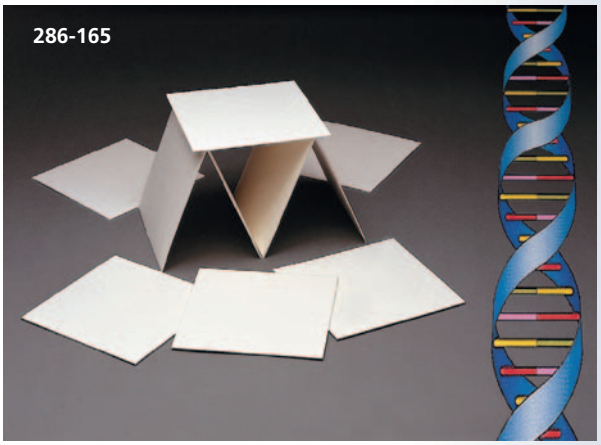
Cat. No.	Description	Price
286-742	UVIsave Gel Documentation system consists of: CCD camera, hood, zoom lens and filter, control unit with built-in LCD viewing screen, floppy disk drive and UVIgeltec PC (Windows) software for viewing, manipulation, annotation and simple analysis (M.Wt & quantification) of gels	POA
286-752	UVIsave Gel Documentation system consists of: CCD camera, hood, zoom lens and filter, control unit with built-in LCD viewing screen, floppy disk drive, UVIgeltec PC (Windows) software for viewing, manipulation, annotation and simple analysis (M.Wt & quantification) of gels and Mitsubishi P-93 thermal printer	POA
286-227	BXT 15M Hi/Low intensity (15x15cm) transilluminator 312nm	POA
286-232	BXT 20M Hi/Low intensity (20x20cm) transilluminator 312nm	POA

Schleicher and Schuell, Gel Blot Papers

Suitable for gel transfer applications in a wide range of absorbencies and sizes. Schleicher and Schuell gel blot papers are high quality, economical wicking papers used for capillary blotting, gel wicking and drying and as spacers in blotting devices.

Specifications

Grade	GB002	GB003	GB004
Thickness, mm	Medium, 0.4	Thick, 0.8	Extra thick, 1.2
Surface	Smooth	Smooth	Rough
Absorbency	Medium	Medium	Extra high
Replaces	3MM	17	Paper towels (for blotting)
Applications	Wicking	Gel support	Blotting



286-165

Cat. No.	Description	Size, mm	Pack size	Price
286-165	Grade GB002, gel blot papers	200x200	100	POA
286-166	Grade GB002, gel blot papers	460x570	100	POA
286-167	Grade GB003, gel blot papers	200x200	50	POA
286-168	Grade GB003, gel blot papers	460x570	50	POA
286-169	Grade GB004, gel blot papers	200x200	25	POA
Chromatography paper				
286-172	Grade 3469, chromatography paper (analytical), 195 gsm	460x570	100	POA

Gel Documentation Systems

New

UVIchemi

New

UVIprochemi system PC not supplied

Chemiluminescence Documentation Systems

UVItec chemiluminescence documentation systems are designed with the exacting demands of the technique in mind, using the highest quality components to give the very best in image quality and sensitivity. This range also takes into account the potential application cross-over between chemiluminescent and fluorescent techniques by offering the option of a system with both capabilities (UVIprochemi) as well as one dedicated to chemiluminescence (UVIchemi).

UVIchemi System

Every aspect of the UVIchemi system has been designed without compromise to meet the most rigorous demands of chemiluminescence documentation. The sensitivity and image quality of the system is assured by the exceptionally low noise of the 12-bit cooled camera. The camera cooling efficiency is maximised by housing it in a separate compartment with its own cooling device. Because it is a dedicated system, the darkroom cabinet can be made as small as possible to eliminate light leakage and maximise sensitivity. The sample tray can be moved up or down to vary the field of view and the superb quality fixed focal length lens allows razor sharp focussing in all sample positions.

Highest Quality CCD camera

The firewire CCD camera used in UVIchemi has a resolution of 1.3 million pixels which gives a clear and sharp image while the high quantum efficiency of 70% at 450nm ensures unrivalled sensitivity. The baseline noise level of the camera, which limits the sensitivity and dynamic range, is extremely low at less than 1% of the 12-bit scale of 4096 intensity levels. Noise remains low even at exposure times of more than one hour, giving the system extraordinary ultimate sensitivity. The camera noise is limited by efficient and direct on-chip cooling of the CCD sensor to -45°C below ambient by a two-stage forced-air Peltier device. A second Peltier actually cools the camera compartment to combat high ambient temperatures that would otherwise affect system performance. "Binning" mode, in which four CCD pixels are combined into one, can be used to increase sensitivity even further, but at the expense of image resolution.

Innovative Darkroom Cabinet

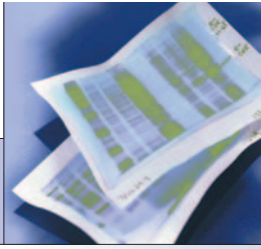
The UVIchemi darkroom cabinet is small and compact, which maximises sensitivity by minimising camera-sample distance and also saves bench space. The top camera compartment incorporates its own Peltier-cooling device, which keeps the compartment at <20°C regardless of the outside temperature. The lower sample compartment has six vertical positions for the sample tray allowing variation of the field of view and the distance from the camera. Simple manual adjustment of the high quality lens allows razor sharp focussing at any sample position. Gentle overhead LED illumination enables sample positioning without excessive glare. The doors to both compartments are sealed with highly efficient latches.

Simple and Convenient Software Interface

UVIchemi software incorporates the same characteristics of simplicity and convenience as all other UVItec software packages. A convenient, user-friendly layout, special acquisition toolbar and icon driven functions make use of the software less cumbersome and more intuitive. Special automatic functions are included to facilitate optimisation of exposure times. The "Automatic Exposure" function performs short test exposures in "binning" mode and then calculates the optimum time for a full resolution exposure. The "Test Signal" function performs a series of binning exposures at user defined intervals and informs the user when the chemiluminescence signal is sufficiently developed for image acquisition. Other acquisition functions available include "live" image display - a high frequency video display useful for sample positioning and focussing; manual exposure where the user defines the exposure time before initiating acquisition; video mode, where a series of full resolution images of user defined exposure times and intervals are acquired. The acquired images can then be saved as TIFF files in either the full 12-bit or displayed 8-bit form.

UVIprochemi System

Designed for a combination of chemiluminescence and high sensitivity fluorescence documentation, UVIprochemi has many of the features of UVIchemi including the same 12-bit, cooled camera and similar software interface. It differs in the inclusion of a darkroom cabinet incorporating a UV transilluminator plus overhead (epi)- UV and white lighting. There is a single position sample tray for chemiluminescence documentation and a motorised zoom lens that ensures fluorescent gels and chemiluminescent blots of many different sizes may be optimally imaged. The software interface includes all UVIchemi features plus the zoom lens controls in which aperture and zoom are adjusted by selecting from pre-set values, and focus is adjusted via two pairs of easy to use + and - buttons for coarse and fine adjustment.



Chemiluminescence Documentation Systems, continued…

System Specifications

Model	UVIchemi	UVIprochemi
Camera specifications		
Resolution	1.3 million pixels	1.3 million pixels
Output	12-bit (4096 grey levels)	12-bit (4096 grey levels)
Dynamic range	>4 orders of magnitude	>4 orders of magnitude
Quantum efficiency	70% at 450nm Direct, on-chip cooling of sensor to -45°C below ambient by two stage Peltier device	70% at 450nm Direct, on-chip cooling of sensor to -45°C below ambient by two stage Peltier device
Darkroom cabinet	DBT 6000 including: Separate sample and Peltier-cooled camera compartments, 4 x LED lights for sample illumination 6-position sample tray Overall exterior dimensions: 680x350x350 (hxwxd), mm	DBT 8000 including: Separate sample and Peltier-cooled camera compartments, two position filter holder, overhead (epi)-UV/white light illumination, pull-out tray for mini UV light illumination, pull-out tray for mini UV transilluminator, single position chemiluminescence sample tray, exterior control panel for all lighting options. Overall exterior dimensions: 920x540x430 (hxwxd), mm
Lens	High quality, fixed focal length, 17 x 0.95	F1.4, 11.5–69 (6X) motorised zoom lens, independent software driven control of aperture, zoom and focus.
Software interface	PC based, linked to camera by PCI card interface, compatible with Windows® 98, 2000, XP	PC based, linked to camera by PCI card interface, compatible with Windows® 98, 2000, XP

Cat. No.	Description	Price
286-001	UVIchemi chemiluminescence documentation system CAS6000 consisting of: High quality, 1.3 megapixel, 12-bit cooled CCD camera, darkroom cabinet DBT 6000, firewire board and software, 17mm/F0.95 fixed focal length lens, cables and user manual	POA
286-002	UVIprochemi chemiluminescence/fluorescence documentation system CAS8000 consisting of: High quality, 1.3 megapixel, 12-bit cooled CCD camera, darkroom cabinet DBT 8000 with epi-UV and white light illumination and filter holder, narrow band-pass filter, mini transilluminator BXT 26M, firewire board and software, F1.4 11.5-69 (6X) motorised zoom lens, cables and user manual	POA

UVIpro Gel Documentation System

- Comprehensive range of models for any application or budget
- Sophisticated image capture and documentation
- Highest quality imaging with optional comprehensive analysis
- Ultra-simple, user friendly software interface
- Multi-user capability and Good Laboratory Practice (GLP)

The UVIpro range is a highly sophisticated documentation system for top quality image capture and analysis. Encompassing a comprehensive range of options from the basic and inexpensive UVIpro Bronze to the state of the art UVIpro Platinum, all UVIpro's are operated from a PC and dedicated software, allowing very precise optimisation of the image prior to printing or analysis. The basic UVIpro design includes a CCD camera interfaced with the PC via an innovative PCI acquisition card or firewire connection, darkroom cabinet, UV transilluminator, zoom lens, UV/IR filter, thermal video printer and acquisition / basic analysis software package. With choices of camera, darkroom cabinet, zoom lens, filter and UV transilluminator, UVIpro offers the broadest possible range of specifications and price.

UVIpro Platinum System New

UVIpro Gold System New

State of the art design

The top of the range UVIpro Platinum incorporates the very best available options throughout. The DBT-2000 is the most advanced, efficient and versatile darkroom cabinet available, while the superb quality 14-bit, ultra-high resolution camera is the best available for gel documentation. The motorised zoom lens is easily controlled from the user-friendly software screen and the standard filter offers the highest signal to background ratio available for ethidium bromide detection. These features combine to make UVIpro Platinum the most advanced and sophisticated gel documentation system available.

Easy, intuitive operation

With minimal learning curve and intuitive, icon-driven software, a high quality printout or TIFF file archive can be produced in seconds. UVIpro may be used at a number of levels, ranging from simple push button operation to highly precise image optimisation. The live image is viewed on the computer screen and optimised via precise and user-friendly slider bar controls.

Versatile, multi-level use

UVIpro is ideal for research environments with a high number of occasional or frequent users, or for the dedicated single user who needs complete control over image capture and analysis. Special features such as control of background level and contrast, plus full saturation monitoring of the live image, enable the highest precision image optimisation for the most demanding users.

Gel Documentation Systems

New

UVIpro Silver System

New

UVIpro Bronze System

UVIpro Gel Documentation System, continued…

UVIpro Acquisition Software

This software is designed to maximise flexibility and ease of use, the two most important characteristics for this type of software. Flexibility comes from an array of features for pre-acquisition image optimisation and post acquisition processing while ease of use comes from the convenient layout and user-friendly adjustment tools. The design is in a modern and attractive XP-style, driven by colourful and descriptive icons.

Operating on Windows® XP, 2000, 98 & ME platforms, UVIpro includes many features for treatment of a captured image such as brightness, contrast, annotation and basic analysis in a user-friendly and familiar Windows® style layout. In addition, UVIpro has the following special features:

- Image window, with full resolution display of live or captured image
- Acquisition toolbar, with all controls for optimisation of the live image
- Image invert button for viewing an "inverted" image
- Easy-to-use slider bars for coarse and fine control of exposure time. Exposure adjustment in two ranges, 80ms-5s in 40ms increments and 5s-120s in 1s increments
- Grid facility for checking alignment of the gel in the field view
- Configuration file saving facility. The acquisition parameters (exposure time, gain, offset) can be saved as a file and re-set automatically by opening the file
- Good Laboratory Practice (GLP) function. A GLP file is automatically saved with each image file. The user can input an experiment title, comments and the camera lens settings while all post-capture image modifications are recorded automatically. In addition, all relevant software-defined acquisition parameters are saved (integration time, gain, offset etc.)

Specifications

CCD Cameras

UVIpro Bronze, Silver, Gold:
Resolution: 762x582
Dynamic Range: 8-bit (256 grey levels)

UVIpro Platinum:
Resolution: 1280x1024
Dynamic range: 14-bit (16,384 grey levels)

Darkroom Cabinets

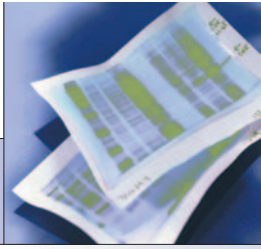
DBT-2000: Advanced ultra light-tight design. Transilluminator (mini-unit) fully enclosed, on convenient pull out tray
- Overhead (epi-) white light as standard and UV light as an option
- Filter wheel (three positions)
- Switchable UV safety door interlock
- Lighting options controlled from convenient external switch panel

DBT-08: Simple "classic" design
- Compact size, fits onto mini (BXT/BTS) sized transilluminators
- UV safety door interlock
- Overhead (epi) white light

DST-15: Simple "classic" design
- Standard size, fits onto standard (SXT/STS) sized transilluminators
- UV safety door interlock
- Overhead (epi) white light

HC 40: Basic camera hood as used with UVIsave system (see page 407)
- Lightweight and strong ABS construction
- Carrying handle for easy portability
- Usable with any transilluminator

Cat. No.	Description	Price
286-094	UVIpro platinum: Designed for users who require exceptionally high resolution and dynamic range coupled to the highest level of versatility and automation. GAS7513X: Includes DBT-2000LS cabinet, high resolution 14 bit firewire camera, firewire card, motorised zoom lens, high performance filter, BXT-26M transilluminator, Mitsubishi P93 thermal printer, UVIpro platinum acquisition software, 1 copy of UVIbandmap analysis software. Pentium PC	POA
286-097	UVIpro Gold: Designed for the user with fewer demands for high resolution and dynamic range but the same requirements for quality and versatility. GAS7401B: Includes DBT-2000W cabinet, SONY 8-bit video camera, manual zoom lens and filter, UVIpro acquisition card and software, BXT-26M transilluminator, Mitsubishi P93 thermal printer, 1 copy UVIband analysis software	POA
286-098	UVIpro Silver: The original "classic" UVIpro design, ideal for all routine gel documentation applications. GAS7300: Includes DBT-08 cabinet, SONY 8-bit video camera, UVIpro acquisition card and software, manual, zoom lens and filter, BXT-20M transilluminator, Mitsubishi P93 thermal printer	POA
286-103	UVIpro Bronze: The "economy" model, ideal for small laboratories with limited budget, as a "starter" system, or for laboratories with low usage. GAS7200: Includes HC-40 hood, SONY 8-bit video camera, UVIpro acquisition card and software, manual zoom lens and filter, Mitsubishi P93 thermal printer	POA



UVIdoc Gel Documentation Systems

- Ultra-simple, low cost documentation systems
- Compact design - fits easily onto bench
- 8 or 12 bit file formats for increased dynamic range
- Ideal for multi-user environments
- Compact flash for saving images as TIFF or JPG
- Light saturation of image detectable on monitor or LCD screen
- Fully networkable allowing easy image transfer to and from a PC
- Free software package includes image manipulation and simple analysis functions*

286-239 New

286-741 New

UVIdoc and UVIdocLCD are superbly designed low cost documentation systems featuring a unique combination of simplicity and versatility. They operate as stand-alone systems for producing high quality thermal prints of gel images. However, the compact flash slot also allows image capture direct to flash card (as TIFF or JPG files). The images produced can be saved as either 8-bit or 12-bit images. The format can be chosen by the user depending on whether an extended dynamic range is needed. The images can then be loaded into the UVIgeltec* software provided to enable image manipulation, annotation and simple analysis. Saturation monitoring of the live image ensures that fully quantifiable images may be captured first time.

A brand new unique feature for the UVIdoc is the addition of a network card into the darkroom cabinet. This will enable the user to install the UVIdoc onto their local network allowing fast and easy access to images already stored on the UVIdoc. Random Access Memory (RAM) will allow 30 images to be stored for easy transfer. UVIdoc and UVIdocLCD are very similar systems with one main difference. The UVIdocLCD has a built-in 4 inch LCD screen which replaces the CCTV monitor supplied with UVIdoc. All other features and functions are the same for both systems.

Both models of UVIdoc are so simple to operate, so there is no learning curve involved and high quality images can be acquired in seconds. This, combined with safety features, makes either UVIdoc ideal for environments with a high number of regular or casual users. The user interface includes a wipe-clean six-button keypad conveniently positioned at eye level. A safety-interlocking darkroom door protects the user from harmful UV output.

No more queues for documentation

Many laboratories have already discovered the benefits of UVIdoc speed and simplicity. With no learning curve and only a few buttons to press, a high quality printout or image file on flash card can be produced in seconds, making darkroom queues a thing of the past. For the more advanced user, images can be transferred from the UVIdoc by a local network connection.

Multi-user UVIdoc

UVIdoc is currently in use in many research departments as a central facility for large numbers of users. The safety, speed and robustness of UVIdoc have even made it an essential tool in many teaching laboratories, the ultimate multi-user environment!

Multi-purpose UVIdoc

UVIdoc's special combination of simplicity and functionality has made it indispensable to a wide range of users. The saturation monitoring function means that UVIdoc can be used by researchers who wish to quantify their gel images and also ensures no loss of detail from the image due to saturation. The system can therefore be used on a variety of levels, from simple hard copy generation, to more sophisticated image acquisition for analysis.

UVIdoc - dedicated to simplicity

The unique design of UVIdoc incorporates a user interface, which is simplicity itself. Integration time is varied by pressing a '+' button to increase and a '-' button to decrease. The exposure time is in pre-set steps, ranging from 40ms up to 10secs. Just three other buttons control features such as live/freeze modes, saturation monitoring, 'save' to flash card and 'read' from flash card. All functions are accessed by a single button push.

Standard components include:
Darkroom and control unit
BXT-20M Mid range (312nm) dual intensity transilluminator
CCD camera
Zoom lens and filters
Mitsubishi P93 thermal printer

UVIdoc LCD incorporates a high quality TFT viewing screen

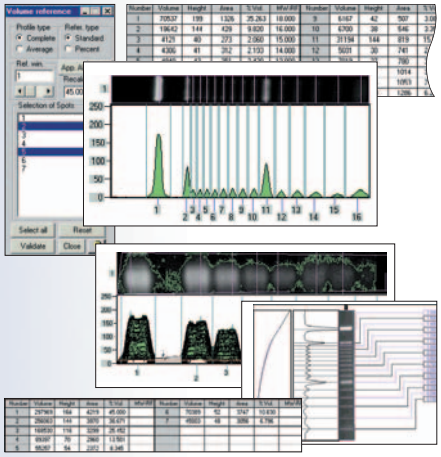
Cat. No.	Description	Price
286-239	UVIdoc gel documentation system GAS9000, consisting of: camera, zoom lens and filters, darkroom with control unit, BTX 20M transilluminator (20x20cm), B/W monitor, Mitsubishi printer and UVIgeltec software	POA
286-035	UVIdoc gel documentation system GAS9010 as 286-239 but supplied with BTX 26M transilluminator (21x26cm)	POA
286-741	UVIdoc gel documentation system GAS9500, consisting of: camera, zoom lens and filters, darkroom with control unit and LCD screen, BTX 20M transilluminator (20x20cm), Mitsubishi printer and UVIgeltec software	POA
286-036	UVIdoc gel documentation system GAS9510 as 286-741 but supplied with BTX 26M transilluminator (21x26cm)	POA

* *Additional software packages are available, see page 412.*

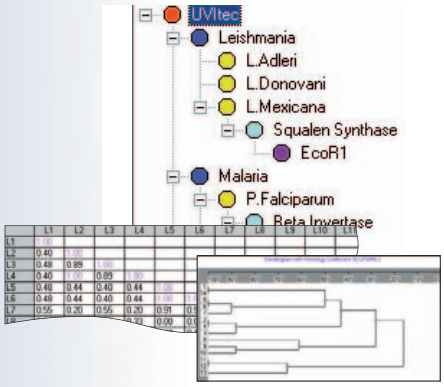
Other UVIdoc systems are also available with larger transilluminators please contact our Technical Office on 01342 826836 for details.

Gel Documentation Systems

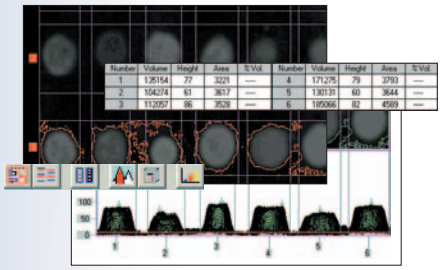
Screenshots from 286-242



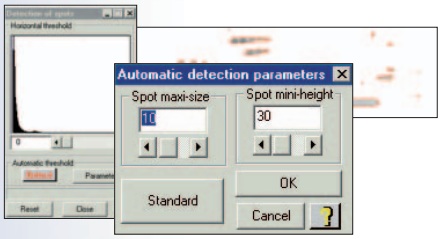
Screenshots from 286-243



Screenshots from 286-244



Screenshots from 286-246



UVIsoft Gel Analysis Software

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

UVIband and UVImap are principally for analysis of 1-dimensional gels. They each contain the same set of functions for routine 1D gel analysis, automatic lane definition, molecular weights, band quantification, etc.,) plus a set of special functions unique to each package.

For UVIband, the special functions are for advanced quantitative analysis of bands, spots (including dot blots) and other less regular features on gels and blots.

For UVImap, the special functions are incorporated in a database, which allows molecular weight data from multiple gels to be archived and retrieved for comparison, facilitating techniques such as RFLP and RAPD analysis.

UVIbandmap combines the routine and special features of both packages to create probably the most comprehensive 1-D analysis package available.

UVIband

Versatile and powerful quantitative analysis

- Precise, accurate band quantification
- Fully automated background subtraction
- Calculates actual 3D volume, not just 2D band area
- Relative or absolute band quantities calculable from reference bands or lane
- Simple, reliable molecular weight/Rf calculations
- Automatic or manual gel distortion correction
- Multiple reference lanes
- Dendogram/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 dendogram analysis
- Multiprobe analysis for RFLP/RAPD

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

UVIspot

The inexpensive 2D alternative

UVIspot is a package dedicated to 2-dimensional (2D) analysis of protein gels, as used in proteomic analysis. It allows assignment of molecular weights and isoelectric points to protein spots on individual gels, plus comparison of positional and quantitative spot data from up to 256 gels. In this way it is possible to identify spots which have disappeared, moved, or changed shape or size in comparable gels.

For more details about all software packages listed here, please contact our Technical Office on 01342 826836.

Cat. No.	Description	Price
286-242	UVIband, software supplied on CD-ROM + user manual	POA
286-243	UVImap, software supplied on CD-ROM + user manual	POA
286-244	UVIbandmap, software supplied on CD-ROM + user manual	POA
286-246	UVIspot, software supplied on CD-ROM + user manual	POA

Polaroid, DS-34 GelCam Instant Camera

The Polaroid GelCam is a portable, instant camera and hood system for recording electrophoresis gels. Compatible with high speed black and white, colour print and positive/ negative film types. A range of hoods is available to cover most gel sizes. The GelCam incorporates an integral fixed focal length lens, adjustable aperture and speed settings.

286-443

Cat. No.	Description	Price
286-443	GelCam instant camera and cable release	POA
286-089	Spare cable release for GelCam camera	POA
286-090	Electrophoresis gel filter kit (includes 3 filters)	POA
286-442	Electrophoresis hood 10 - small 125x110mm	POA
286-446	Electrophoresis hood 15 - medium 178x241mm	POA
286-445	Electrophoresis hood 26 - large 260x210mm	POA
Polaroid films		
286-086	Film, type 667 black and white, 10 exposure twinpack	POA
286-087	Film, type 669 colour, 10 exposure twinpack	POA

UVP, DigiDoc-It™ System

The DigiDoc-It™ is a low cost system for image acquisition and documentation of gels, plates and membranes. The system includes a 5.1 mega pixel digital colour camera housed in a compact enclosure with sample viewer and access door. Acquisition software enables complete camera control, enhancement, annotation and archiving of digital images for publication or analysis. Images can be transferred via a hot button to Doc-It® 1D image analysis software. Using Doc-It® 1D software with the DigiDoc-It™ allows a live preview image to be viewed on the PC monitor (PC/laptop required but not included).

- Compact enclosure with easy-access door and view port
- 5.1 mega pixels resolution digital camera for high quality images
- Acquisition software controls camera functions for basic image capture and includes effects tools such as pre-set pseudo colour stains, image rotation, annotation tools and calibrated ruler
- Doc-It® 1D analysis software (optional) with live preview

The hood can be placed on any 'High Performance' UV Transilluminator or used with the optional drawer and any 'Benchtop' UV Transilluminator (see below for details). The software is compatible with computers (including laptops) with a USB interface running Windows®, 2000 or XP.

For details on Doc-It® 1D analysis software, see page 416.

286-760
shown with transilluminator

286-760 shown with 286-761

Specifications

Enclosure dimensions (wxdxh), mm	451x305x422
Maximum gel size, cm	26x30
File formats	jpg, bmp, tif, gif, tga, png
Resolution	5.1 mega pixels
Image resolution (pixels)	640x480, 1024x768, 1280x960, 2288x1712
Lens	3x optical zoom; 46mm threads for filters
Minimum aperture	f1.8
Filters included	Ethidium bromide and +3 diopter

Cat. No	Description	Price
286-760	DigiDoc-It™, includes digital camera and cables, enclosure, capture software, UV filter, diopter and universal power supply	POA
Accessories		
286-761	DigiDoc-It™ drawer	POA
286-860	Colour dye sublimation printer (takes colour or monochrome roll paper)	POA
286-861	Colour thermal paper for 286-860. Requires 286-862	POA
286-862	A7 ink sheet for 286-860. Requires 286-861	POA
286-658	Digital monochrome thermal printer	POA
286-540	Glossy thermal paper for 286-658 or 286-860. Box of 5 rolls	POA
286-809	Super glossy thermal paper. Box of 5 rolls	POA
286-536	UV to white light converter plate (21x26cm)	POA
286-139	UV to white light converter plate (25x26cm)	POA
286-863	Visi-Blue™ plate (302nm to 480nm blue light converter), (21x26cm)	POA
286-822	Visi-Blue™ plate (302nm to 480nm blue light converter), (25x26cm)	POA
Image analysis software		
286-877	Doc-It® 1D image analysis software	POA
286-125	Additional copy of Doc-It® 1D sofware at the same institution	POA

UVP is More than Just Ultraviolet!

Innovative Solutions for Education, Science and Industry

BioImaging Systems and Analysis Software

ChemiDoc-It Imaging System | GelDoc-It Imaging System | BioSpectrum^{AC} BioImaging System | DigiDoc-It™ Digital Imaging System | BioDoc-It™ Gel Documentation System

Ultraviolet and Laboratory Products

UVP, founded in 1932, creates products using ultraviolet radiation for many applications across a broad spectrum of industries.

Today, UVP focuses development efforts in UV and laboratory products, leading the company to opportunities in and beyond ultraviolet applications.

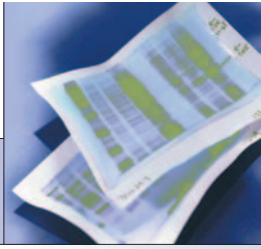
UVP's ultraviolet products are known world wide for quality, excellent value and as solutions for customer's needs. Ultraviolet uses include criminology, electrophoresis, thin-layer chromatography, sterilization and inspection.

New product development continues with innovative solutions covering a wide range of BioImaging Systems for imaging and analysis of gels, plates, blots and membranes. UV sterilzing incubators, hybridization ovens and PCR sterilization chambers provide leading edge technology for life science researchers.

With a dedicated world-wide workforce, UVP provides comprehensive service and support to customers worldwide. With over 70 years of experience, UVP continues to supply education, science and industry with quality ultraviolet products and beyond.

UVP delivers products with a real performance difference! UVP, the #1 choice ... worldwide!

UVP®
ULTRA-VIOLET PRODUCTS



MultiDoc-It™ System

The MultiDoc-It™ uses the same digital camera and capture software as the DigiDoc-It™ but offers enhanced darkroom features and can be run from a laptop computer (subject to minimum specification).

The 5.1 mega pixel colour camera is mounted inside a completely light-tight mini darkroom cabinet which incorporates a transilluminator. The interlocking mechanism on the cabinet door ensures safety from exposure to UV light. The overhead white light allows colour photography of opaque objects within the cabinet. Optional UV lamps can be installed for overhead UV illumination of gels or TLC plates.

Four models with different transilluminators are available, depending on your application. Choose from a single wavelength (302nm), 20x20cm model (286-126) or 21x26cm (286-864) or two 2UV (302/365nm) transilluminators with filter sizes of 20x20cm (286-127) or 21x26cm (286-128). A high/low setting is provided on the single wavelength model to reduce the photo-nicking of DNA.

An optional UV to White Light converter or UV to Blue Light (480nm) converter can be used to allow documentation of protein gels and the use of SYBR Gold. Acquisition software is included with the system. Doc-It® 1D analysis software is also available for use with the MultiDoc-It. Doc-It® 1D Analysis software is designed as an easy to use software package for the image analysis of 1D gels, plates and membranes acquired with any of UVP's Doc-It range of gel documentation systems. For further details see page 416.

Specifications

Enclosure dimensions (wxdxh), mm	335x265x555
Maximum gel size, cm	26x30
File formats	jpg, bmp, tif, gif, tga, png
CCD	5.1 mega pixels
Image resolution (pixels)	640x480, 1024x768, 1280x960, 2288x1712
Lens	3x optical zoom; 46mm threads for optical optics/filters
Minimum aperture	F/1.8
Filters included	Ethidium bromide and +3 diopter

Cat. No.	Description	Price
286-864	MultiDoc-It™ (M-26 Version) includes; Digital Camera, MultiDoc-It™ cabinet, M-26 transilluminator (21x26cm filter, 302nm, hi/low settings) and capture software	POA
286-126	MultiDoc-It™ (M-20 Version). As for M-26 version but with M-20 transilluminator (20x20cm filter, 302nm, hi/low settings)	POA
286-127	MultiDoc-It™ (LM-20E Version). As for M-26 version but with LM-20E transilluminator (20x20cm filter, 302/365nm, hi/low settings)	POA
286-128	MultiDoc-It™ (LM-26E Version). As for M-26 version but with LM-26E transilluminator (21x26cm filter, 302/365nm, hi/low settings)	POA

All models include Digital camera, MultiDoc-It cabinet with overhead white light (with option to mount overhead UV lamps), transilluminator as described, acquisition software, UV filter, close-up diopter and universal power supply.

The MultiDoc-It TLC System is a specially adapted MultiDoc-It, which includes overhead UV lamps and a metal base instead of a transilluminator, especially for use with TLC plates.

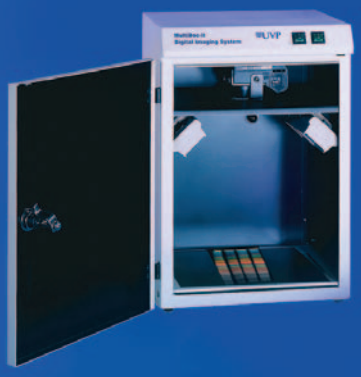
Cat. No.	Description	Price
286-129	TLC MultiDoc-It TLC System includes; Digital camera and cables, MultiDoc-It cabinet including overhead white, 254nm and 365nm UV light, acquisition software, TLC filter, close-up diopter and universal power supply.	POA
Accessories		
286-877	Doc-It® 1D image analysis software	POA
286-125	Additional copy of Doc-It® 1D software at the same institution	POA
286-860	Colour dye sublimation printer (takes colour or monochrome roll paper)	POA
286-861	Colour thermal paper for 286-860. Requires 286-862	POA
286-862	A7 ink sheet for 286-860. For use with 286-861	POA
286-658	Digital monochrome thermal printer	POA
286-809	Super glossy thermal paper. Box of five rolls	POA
286-540	Glossy thermal paper for 286-658 or 286-860. Box of five rolls	POA
286-536	UV to white light converter plate, 21x26cm	POA
286-139	UV to white light converter plate, 25x26cm	POA
286-863	Visi-Blue™ plate (302nm to 480nm blue light converter), 21x26cm	POA
286-822	Visi-Blue™ plate (302nm to 480nm blue light converter), 25x26cm	POA
Optional overhead UV lamps		
286-524	UVG-11, 254nm	POA
286-525	UVL-21, 365nm	POA
286-130	UVGL-15, 365nm/254nm Split UV tube	POA
286-039	UVGL-25, 365nm/254nm Separate UV tube	POA
286-131	Epi-illumination blue converter, 4.5x7.2cm filter size	POA

MultiDoc-It System

MultiDoc-It System

(laptop sold separately)

286-129 MultiDoc-It TLC System



Gel Documentation Systems

New 286-121

New 286-122

New 286-053

BioDoc-It™ Image Acquisition Workstation

- Small footprint unit designed as a dedicated image acquisition system
- New design 6.4" LCD screen
- No PC required but can save images to PC via built-in network card
- Save images in multiple formats
- CompactFlash Memory card (64MB)
- Ideal for use in both multi-user and single-user laboratories

The new BioDoc-It™ enables image capture of fluorescent and non-fluorescent gels, membranes, blots, autorads, plates and assays with the ability to save images to a CompactFlash memory card or to any computer via a network connection for later quantitative analysis or enhancement for publication. The standard system includes a CCD video camera, UV benchtop transilluminator and small darkroom enclosure that combines an integrated 6.4" LCD monitor, viewing panel, touch pad controls and CompactFlash memory card and reader.

Low cost documentation is available with an optional high quality thermal printer. Optional UV to white light and UV to blue light converters are available if required.

The live preview feature allows researchers to acquire exactly what is shown on the LCD screen. Pre-set exposure times provide integration from 0.1 up to 10 seconds and saturation warning ensures images are perfectly exposed. Images can be saved in JPEG, 8-bit or 12-bit TIFF format. The darkroom has overhead white light and an interlocked safety switch.

Doc-It® 1D Software

Doc-It® 1D Analysis software is designed as an easy to use software package for the image analysis of 1D gels, plates and membranes acquired with any of UVP's Doc-It range of gel documentation systems. Profiles and preferences can be defined for multiple users and selected for repeatable experiments. If used with any of the systems for image acquisition (except BioDoc-It™) a "live" preview on the computer monitor simplifies capture.

Doc-It® 1D allows the saved image to be enhanced and annotated as required and the background corrected using a choice of methods. It will calculate the molecular weight and quantity of each band and may be calibrated using multiple Molecular Weight standards. Final results can be output to Excel or other formats and can be displayed in GLP-compliant reports. In addition the user can track the complete image and analysis history for each sample.

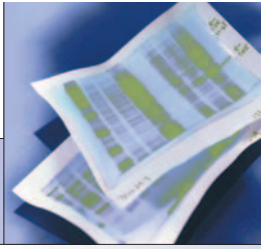
All BioDoc-It™ systems are delivered with CCD camera, 8–48mm/f1.2 manual zoom lens, diopter, UV filter and darkroom with integral 6.4" LCD screen, CompactFlash memory card and reader.

Cat. No.	Description	Price
286-665	BioDoc-It™, M-20 version 20x20cm filter, 302nm, dual intensity	POA
286-121	BioDoc-It™, LM-20E version 20x20cm filter, 302/365nm, single intensity	POA
286-657	BioDoc-It™, M-26 version 21x26cm filter, 302nm, dual intensity	POA
286-865	BioDoc-It™, LM-26E version 21x26cm filter, 302/365nm, single intensity	POA
286-053	BioDoc-It™, LMS-20E version 20x20cm filter, 254/302/365nm, single intensity	POA
286-081	BioDoc-It™, LMS-26E version 21x26cm filter, 254/302/365nm, single intensity	POA
286-033	BioDoc-It™, M-26X version 25x26cm filter, 302nm, dual intensity	POA
286-122	BioDoc-It™, First Light version* 25x26cm filter, 302nm, single intensity	POA

Please note that other versions of the BioDoc-It™ System are available: BioDoc-It™ System with 8.4" LCD screen; 3-door BioDoc-It™ System with 6.4" or 8.4" LCD screen. Please enquire for details on 01342 826836.

** First light transilluminators offer a highly uniform UV transillumination system, critical for accurate quantitative analysis. For more information please see page 1030 or contact our Technical Office on 01342 826836.*

Cat. No.	Description	Price
286-539	UP-895CE analogue thermal printer	POA
286-809	Super glossy thermal paper. Box of 5 rolls	POA
286-540	Glossy thermal printer paper. Box of 5 rolls	POA
286-637	Camera filter for SYBR Green and EGFP	POA
286-536	UV to white light converter plate, 21x26cm	POA
286-139	UV to white light converter plate, 25x26cm	POA
286-863	Visi-Blue™ plate (302nm to 480nm blue light converter), 21x26cm	POA
286-822	Visi-Blue™ plate (302nm to 480nm blue light converter), 25x26cm	POA
286-877	Doc-It® 1D image analysis software	POA
286-125	Additional copy of Doc-It® 1D software at the same institution	POA



GelDoc-It Gel Documentation Systems

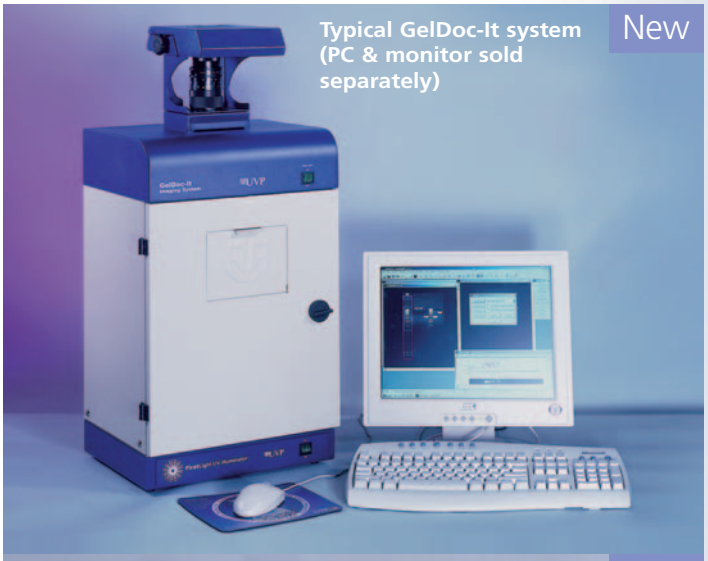
The new GelDoc-It systems are PC-based acquisition and analysis systems that are able to capture, enhance, document, analyse and archive all non-chemiluminescence gels, plates, blots and membranes. The systems include an enclosed darkroom which sits on the user's bench (copy stand for operation in walk-in darkroom is available - details on request) with a choice of two cameras and three transilluminators.

The system is normally available with the GelDoc-It darkroom. However, for those users who contemplate upgrading to a chemiluminescence system in a few years and don't have the funds available now for a dedicated cooled camera, the GelDoc-It camera is also available with either the light-tight manual EC3 or automated AC1 darkrooms. Two systems incorporating the manual EC3 darkroom are listed here. Two systems are available incorporating the automated AC1 darkroom (see cat no.s 286-148 and 286-149).

LabWorks™ image acquisition and analysis software is a comprehensive, experiment-based package, which can be used by everyone in the laboratory from the novice to the experienced worker. Intuitive drop-down menus guide the user through every procedure, so the package is particularly useful in a multi-user environment. LabWorks™ provides comprehensive facilities for image capture, 1D molecular weight determination and mass quantitation, slot and dot quantitation, colony counting and irregular area density analysis. Archive images and associated results with unique filenames. The databases can be previewed using thumbnails and searched on standard and custom keywords. In addition you can custom design your experimental reports and save these as templates within LabWorks™.

The GelDoc-It system is a modular gel documentation system that offers complete flexibility. From the basic components listed below, systems can be built up to suit individual budgets and specific applications. There are four essential components - all of which are required to build a complete system - plus various options which are listed below.

1. PC (customer's own or as described below) and monitor
2. Camera with darkroom (copy stand is available - please enquire)
3. Transilluminator
4. Image acquisition and analysis software (LabWorks™)



Camera specifications

Type	Fluor camera	Gel camera
	Video	½" Progressive Scan Interline CCD
	Monochrome	Monochrome 1.4 Mega pixel
Resolution	752x582 pixels	1344x1024 pixels
Pixel size, µm	N/A	6.45x6.45
Bit depth	8	12
Binning	N/A	1x1, 2x2, 4x4 for increased sensitivity
PC Interface	PCI	USB 2.0 enhanced
Optics	C-Mount	C-Mount
Zoom	6 x manual zoom	6 x manual zoom

Base Unit (PC and monitor)

Cat No.	Description	Price
286-678	Pentium IV base for PC (monitor not included) Minimum specifications: 2.8MHz, 40GB hard drive, 512MB RAM, 52X CD-ReWriter, Windows 2000 or XP, keyboard, optical mouse, video card and 1.44MB 3.5" disk drive. For options such as wireless keyboard, Ethernet adaptor, zip drive etc. please enquire. Price includes 3 year return to base warranty	POA
286-100	17" SVGA CRT Monitor, 0.27mm dot pitch (min), 1280x1024 (min)	POA
286-866	19" SVGA CRT Monitor, 0.25mm dot pitch (min), 1600x 1200 (min)	POA
286-867	15" TFT LCD Monitor, 1024x768 – (flat screen)	POA
286-133	17" TFT LCD Monitor, 1024x768 – (flat screen)	POA

All monitors include 3 year return to base warranty

Gel Documentation Systems

Camera and Darkroom combinations

Systems with GelDoc-It Darkroom

Cat No.	Description	Price
286-140	GelDoc-It System with Fluor Camera 8-bit monochrome video camera with mount, 8–48mm/f1.2 manual zoom lens, close-up diopter, PCI acquisition board and cables, GelDoc-It darkroom with interchangeable single position filter slider (UV filter included), uniform overhead white light, fluorescent viewer and transilluminator safety shutdown.	POA
286-141	GelDoc-It System with Gel Camera 12-bit monochrome digital camera with mount, 1344x1024 chip with binning capabilities, 12.5–75mm/f1.2 manual zoom lens, close-up diopter, USB 2.0 enhanced connection, cables and GelDoc-It darkroom as above.	POA

Systems with light-tight EC3 Darkroom

Cat No.	Description	Price
286-143	EC3 System with Fluor Camera 8-bit monochrome video camera with mount, 8–48mm/f1.2 manual zoom lens, close-up diopter, PCI acquisition board and cables, EC3 darkroom with five position filter wheel (includes, in addition to a clear (empty) position, SYBR Green, SYBR Gold, ethidium bromide and Coomassie Blue filters as standard), uniform overhead diffused 254nm and 365nm UV and white light, fluorescent viewer, retractable, sliding transilluminator tray for any benchtop transilluminator including 3UV, fold down, variable height, chemiluminescence sample platform, “active”, ultra thin, white transilluminator. 30 minute transilluminator safety shutdown.	POA
286-147	EC3 System with Gel Camera 12-bit monochrome digital camera with mount, 1344x1024 chip with binning capabilities, 12.5–75mm/f1.2 manual zoom lens, close-up diopter, firewire interface card, cables and EC3 darkroom as above.	POA

Transilluminators

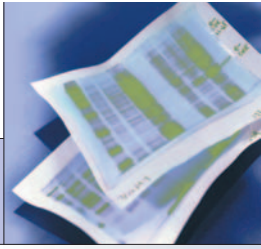
Cat No.	Description	Price
286-066	M-15 Transilluminator (302nm, 15x15cm), Hi/Lo intensity	POA
286-102	M-20 Transilluminator (302nm, 20x20cm), Hi/Lo intensity	POA
286-535	M-26 Transilluminator (302nm, 21x26cm), Hi/Lo intensity	POA
286-132	M-26X Transilluminator (302nm, 25x26cm), Hi/Lo intensity	POA
286-555	LM-20E Transilluminator (365/302nm, 20x20cm), single intensity	POA
286-556	LM-26E Transilluminator (365/302nm, 21x26cm) , single intensity	POA
286-070	LMS-20E Transilluminator (254/302/365nm, 20x20cm), single intensity	POA
286-557	LMS-26E Transilluminator (254/302/365nm, 21x26cm), single intensity	POA
286-048	FL-20 FirstLight™ transilluminator (302nm, 20x20cm), single intensity	POA
286-049	FL-26 FirstLight™ transilluminator (302nm, 21x26cm), single intensity	POA
286-050	FL-26X FirstLight™ transilluminator (302nm, 25x26cm), single intensity	POA

Image capture and analysis software

Cat No.	Description	Price
286-695	LabWorks™ V4.6 image analysis software	POA
286-696	Additional copies of LabWorks™ V4.6 at the same institution	POA

Optional components

Cat No.	Description	Price
286-658	Sony UPD-895 digital monochrome thermal printer	POA
286-809	Super glossy thermal paper. Box of 5 rolls	POA
286-540	Glossy thermal paper. Box of 5 rolls	POA
286-823	SYBR Green square cut filter for GelDoc-It darkroom	POA
286-824	SYBR Gold square cut filter for GelDoc-It darkroom	POA
286-536	UV to white converter plate, 21x26cm	POA
286-139	UV to white converter plate, 25x26cm	POA
286-863	Visi-Blue™ plate (302nm to 480nm blue light converter), 21x26cm	POA
286-822	Visi-Blue™ plate (302nm to 480nm blue light converter), 25x26cm	POA



Automated Gel/Blot Imaging and Analysis Systems

A range of fully automated and computerised systems for both fluorescence and chemiluminescence applications. UVP have taken their highly successful AutoChemi™ (now called the AC1) darkroom and combined it with their family of cameras to offer the widest selection of automated gel/blot imaging and analysis systems available.

With these new automated systems you have the advantage of achieving precise camera and darkroom conditions via PC-control, which allows you to accurately reproduce experimental conditions. This, in turn, produces consistent and accurate research results every time with full GLP compliance.

The camera/darkroom control menu allows users to manage preset or user-defined settings for automating routine procedures. The control software is integrated into LabWorks™ analysis software for unparalleled ease of use.

The AC1 darkroom is completely light-tight for optimal chemiluminescent imaging conditions. A drop-down sample viewer, with UV-protective glass, in the door of the darkroom allows observation of experiments without the need to open the door. Overhead 365nm UV, 480nm Visi-Blue™ and white light for uniform epi-illumination are controlled by the software. A fold-down platform for placing and visualising chemiluminescent samples is adjustable to varying heights and includes an active 21x26mm white light transilluminator (also software controlled) for imaging negatives, film positives, autorads, membranes, plates and more. The computer-controlled five-position filter wheel includes, in addition to two clear (empty) positions, SYBR Green, SYBR Gold and ethidium bromide filter as standard. Other filters are available to suit your exact requirements.

The darkroom software interface provides preset or user-defined lens, lighting and filter settings. The lens features motorised aperture, zoom and focus functions. A sliding, retractable tray allows easy access to the transilluminator which has a time-controlled auto-off facility. Any "benchtop" (8W) UVP transilluminator can be used (see below).

Five systems incorporating the AC1 darkroom are available. All are identical apart from the cameras which are described below.

For details on Labworks™, see page 417.

Camera specifications

Type	Fluor	Gel	MultiChemi	BioChemi	OptiChemi
Resolution (pixels)	752x582	1344x1024	1392x1040	1344x1024	1344x1024
Cooling	None	None	-25°C from ambient	-10°C from 0°C	-60°C from 0°C
Interface	PCI	USB 2.0 enhanced	Firewire	Firewire	Firewire
Lens	Motorised 12.5-77mm/f1.2 (all models)				
Camera	Monochrome video	Monochrome digital	Colour digital	Monochrome digital	Monochrome digital
Binning	No	Yes	Yes	Yes	Yes
Bit depth	8	12	24 Colour/12 Mono	12	14

Cat. No.	Description	Price
286-148	Auto-Fluor System, AC1 darkroom as described above, with 8-bit monochrome camera and mount, 752x582 pixel chip, 12.5-75mm/f1.2 motorised zoom lens, UV filter, close-up diopter, cables and PCI acquisition board.	POA
286-149	Auto-Gel System, AC1 darkroom, as described above, with 12-bit monochrome digital camera and mount, 1344x1024 pixel chip, 12.5-75mm/f1.2 motorised zoom lens, UV filter, close-up diopter, cables and USB 2.0 enhanced connection.	POA
286-154	Auto-MultiChemi System, AC1 darkroom as described above, with 24-bit colour/12-bit monochrome (binned) digital camera and mount, 1392x1040 pixel chip, two stage peltier cooling (-25°C from ambient), 12.5-75mm/f1.2 motorised zoom lens, UV filter, close-up diopter, cables and PCI acquisition board.	POA
286-155	Auto-BioChemi System, AC1 darkroom as described above, with 12-bit monochrome digital camera and mount, 1344x1024 pixel chip with binning capability, two stage, forced air assisted, peltier cooling (-10°C from zero), 12.5-75mm/f1.2 motorised zoom lens, UV filter, close-up diopter, cables and Firewire interface board.	POA
286-156	Auto-OptiChemi System, AC1 darkroom as described above, with 14-bit monochrome digital camera and mount, 1344x1024 pixel chip with binning capability, three stage, forced air assisted, peltier cooling (-60°C from zero), 12.5-75mm/f1.2 motorised zoom lens, UV filter, close-up diopter, cables and Firewire interface board	POA

In addition to the above systems you will need to purchase

1. PC (customer's own or as described below) and monitor
2. Transilluminator (if required)
3. Image acquisition and analysis software (LabWorks™)
4. Printer (if required)

See page 421 for details on suitable base units, transilluminators, software and other accessories.

Gel Documentation Systems

New

Typical EC3 system (PC & monitor sold separately)

Manual Chemiluminescence Imaging and Analysis Systems

UVP offer three manual imaging systems for both fluorescence and chemiluminescence applications using cooled cameras.

The EC3 darkroom is completely light-tight for optimal chemiluminescent imaging conditions. A drop-down sample viewer, with UV-protective glass, in the door of the darkroom allows observation of experiments without the need to open the door. Diffused overhead 254 and 365nm UV and white light is available for uniform epi-illumination. A fold-down platform for placing and visualising chemiluminescent samples is adjustable to varying heights and includes an active 21 x 26mm white light transilluminator for imaging negatives, film positives, autorads, membranes, plates and more. The manual five-position filter wheel includes, in addition to a clear (empty) position, SYBR Green, SYBR Gold, ethidium bromide and Coomassie Blue filters as standard. Other filters are available to suit your exact requirements. A timer on the darkroom switches off the transilluminator after a set period of time (in 30 minute intervals) to prevent damage to the samples or the transilluminator.

A sliding, retractable tray allows easy access to the transilluminator which has a time-controlled auto-off facility. Any "Benchtop" (8W) UVP transilluminator can be used.

LabWorks™ image acquisition and analysis software is a comprehensive, experiment-based package, which can be used by everyone in the laboratory from the novice to the experienced worker. For details on LabWorks™ see page 417. Three chemiluminescent systems incorporating the EC3 darkroom are available. All are identical apart from the cameras which are described below.

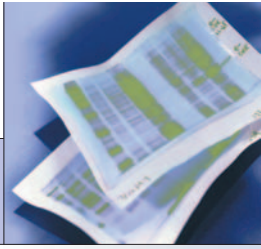
Camera specifications

Type	MultiChemi	BioChemi	OptiChemi
Resolution (pixels)	1392x1040	1344x1024	1344x1024
Cooling	Ambient -25°C	-10°C from 0°C	-60°C from 0°C
Interface	PCI	Firewire	Firewire
Lens	12.5–75mm/f1.2	12.5–75mm/f1.2	12.5–75mm/f1.2
Camera	Colour digital	Monochrome digital	Monochrome digital
Binning	Yes	Yes	Yes
Bit depth	24 Colour 12 Monochrome	12	14

Cat. No.	Description	Price
286-157	MultiChemi System, EC3 darkroom, as described above, with 24-bit colour, 12-bit monochrome (binned) digital camera and mount, 1392x1040 pixel chip, two stage peltier cooling (-25°C from ambient), 8–48mm/f1.2 zoom lens, UV filter, close-up diopter, cables and Firewire interface card.	POA
286-158	BioChemi System, EC3 darkroom, as described above, with 12-bit monochrome digital camera and mount, 1344x1024 pixel chip with binning capability, two stage, forced air assisted, peltier cooling (-10°C from zero), 12.5–75mm/f1.2 zoom lens, UV filter, close-up diopter, cables and Firewire acquisition board.	POA
286-159	OptiChemi System, EC3 darkroom, as described above, with 14-bit monochrome digital camera and mount, 1344x1024 pixel chip with binning capability, three stage, forced air assisted, peltier cooling (-60°C from zero), 12.5–75mm/f1.2 zoom lens, UV filter, close-up diopter, cables and Firewire acquisition board.	POA

In addition to the above systems you will need to purchase

1. PC (customer's own or as described below) and monitor
2. Transilluminator (if required).
3. Image acquisition and analysis software (LabWorks™)
4. Printer (if required)



UVP, Manual Chemiluminescence Imaging and Analysis Systems, Continued…

Base Unit (PC and monitor)

Cat No.	Description	Price
286-678	Pentium IV base for PC (monitor not included) Minimum specifications*: 2.8MHz, 40GB hard drive, 256MB RAM, 52X CD-ReWriter, Windows 2000 or XP, keyboard, optical mouse, video card and 1.44MB 3.5″ disk drive. For options such as wireless keyboard, Ethernet adaptor, zip drive etc. please enquire. Price includes 3 year return to base warranty	POA
286-100	17″ SVGA CRT Monitor, 0.27mm dot pitch (min), 1280x1024 (min)	POA
286-866	19″ SVGA CRT Monitor, 0.25mm dot pitch (min), 1600x1200 (min)	POA
286-133	17″ TFT LCD Monitor 1024x768	POA

All monitors include 3 year return to base warranty. ***** *Specifications liable to change without notice.*

Transilluminators		
286-066	M-15 Transilluminator (302nm, 15x15cm), Hi/Lo intensity	POA
286-102	M-20 Transilluminator (302nm, 20x20cm), Hi/Lo intensity	POA
286-535	M-26 Transilluminator (302nm, 21x26cm), Hi/Lo intensity	POA
286-132	M-26X Transilluminator (302nm, 25x26cm), Hi/Lo intensity	POA
286-555	LM-20E Transilluminator (365/302nm, 20x20cm), single intensity	POA
286-556	LM-26E Transilluminator (365/302nm, 21x26cm), single intensity	POA
286-070	LMS-20E Transilluminator (254/302/365nm, 20x20cm), single intensity	POA
286-557	LMS-26E Transilluminator (254/302/365nm, 21x26cm), single intensity	POA
286-048	FL-20 FirstLight™ transilluminator (302nm, 20x20cm), single intensity	POA
286-049	FL-26 FirstLight™ transilluminator (302nm, 21x26cm), single intensity	POA
286-050	FL-26X FirstLight™ transilluminator (302nm, 25x26cm), single intensity	POA
Image capture and analysis software		
286-695	LabWorks™ V4.6 image analysis software	POA
286-696	Additional copies of LabWorks™ V4.6 at the same institution	POA
Optional components		
286-658	Sony UPD-895 digital monochrome thermal printer	POA
286-809	Super glossy thermal paper. Box of five rolls	POA
286-540	Glossy thermal paper. Box of five rolls	POA
286-860	Colour dye sublimation printer (takes colour or monochrome roll paper)	POA
286-861	Colour thermal paper for 286-860. Requires 286-862	POA
286-862	A7 ink sheet for 286-860. For use with 286-861	POA
286-863	Visi-Blue™ plate (302nm to 480nm blue light converter), 21x26cm	POA

Vacuum/Heated Slab Gel Dryers

286-317

Two versatile vacuum gel dryers, accommodating any size of gel up to either 330x440mm, or in the case of large format dryer, 500x400mm gels. Multiple small format gels can be dried at the same time. Each unit has two timers, one for the temperature and one for the vacuum pump. The drying temperature can be set between ambient and 90°C and regulated to ±2°C, and the drying time set up to 5 hours in 1 minute steps. The vacuum pump can also be timed to automatically switch off, any time up to 5 hours in 1 minute steps. The 286-317 unit dries 330x410mm sequencing gels in as little as 30 minutes.

Cat. No.	Description	Price
286-317	Complete slab gel drying system, 330x440mm. Includes: Stainless steel screen, Mylar sheet, porous polyethylene sheet, clear silicone rubber overlay sheet	POA
Accessories for 286-317		
286-318	Stainless steel screen	POA
286-319	Mylar sheet (for gels <1.5mm thick)	POA
286-320	Porous polyethylene sheet (for gels >1.5mm thick)	POA
286-321	Clear silicone rubber overlay sheet	POA

Cat. No.	Description	Price
286-628	Complete slab gel drying system, 500x400mm. Supplied as above	POA
Accessories for 286-628		
286-630	Stainless steel screen	POA
286-631	Mylar sheet (for gels <1.5mm thick)	POA
286-632	Porous polyethylene sheet (for gels >1.5mm thick)	POA
286-633	Clear silicone rubber overlay sheet	POA