

# PLATINUM HD2

## The power machine

Massive specifications



“ We have combined our Platinum system with the UVPure 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. ”

### > Size matters - a bit of technology

#### • Unrivalled sensitivity

The Platinum 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

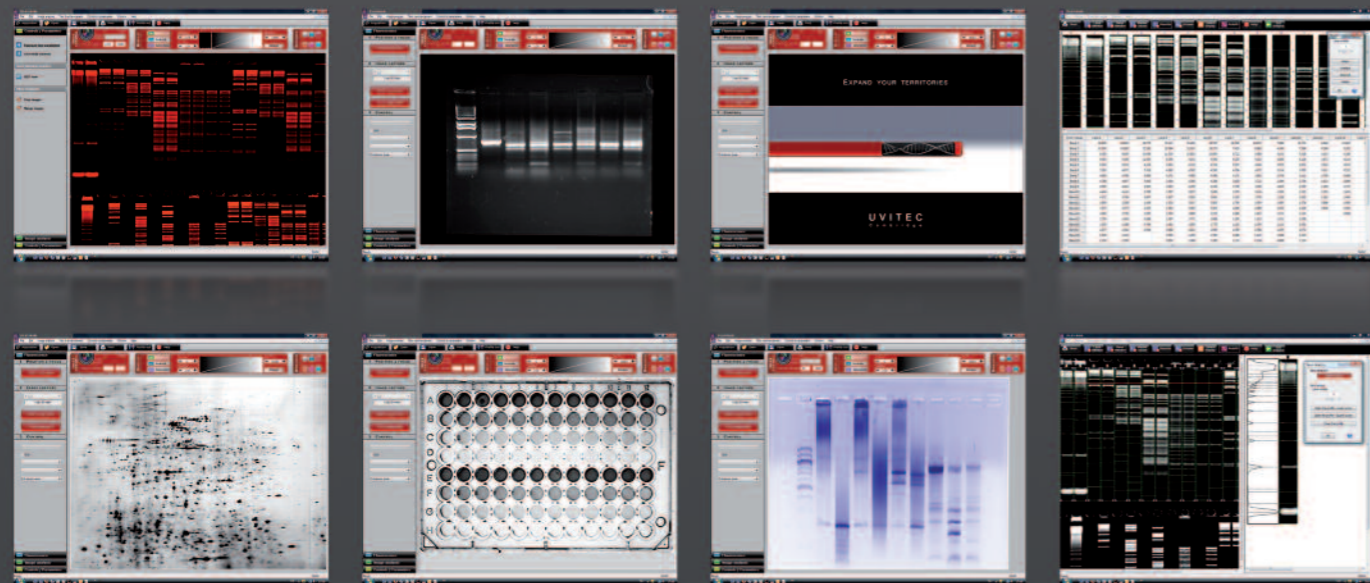
Start with a predefined set-up and then optimise it for your particular technique. Name it, save it and then recall it for the next time.

#### • Make it even better

Enhance your image with the extensive set of tools such as multicolorea 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 D56), a zoom lens (manual or motorised with autofocus option), epi-illumination modes (white light or UVA /UVC and white light) and transilluminator technology and size (UVI-Pure or standard, 20x20 or 21x26cm).



PLATINUM HD2 D77  
by Uvitec Cambridge

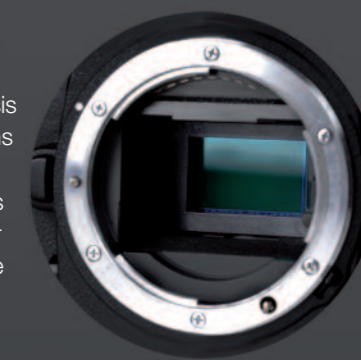


## A PLATINUM jewel

### > The WOW list

- Highest performance gel doc systems available
- 2 megapixels extendable to 7.6 megapixels
- Scientific CCD
- Massive 16-bit pixel depth (65 536 grey levels)
- Prominent pixel size
- Protocol driven image acquisition
- 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
- Scientific optics
- Patented UVI-Pure technology available
- Superb quality camera filter optimised for ethidium bromide
- 'One-touch' fully automated image acquisition programme
- Single or dual wavelength transilluminator
- Several epi-illumination 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 UViband or UVibandmap software available
- Bio-fluorescence and multiplexing ready



Razor sharp imaging

# FIREREADER

## Expand your territories

Scientific CCD camera



“ 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. ”

### > 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 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 Pierce, Sigma, Millipore, Promega



## The HOT list

### > 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
- 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



# ESSENTIAL V2

## 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).

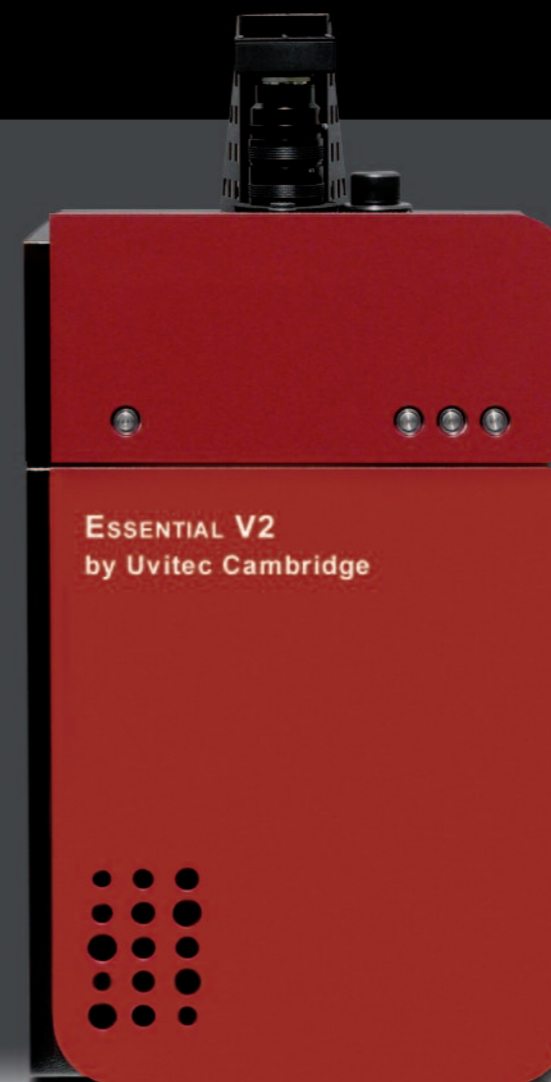
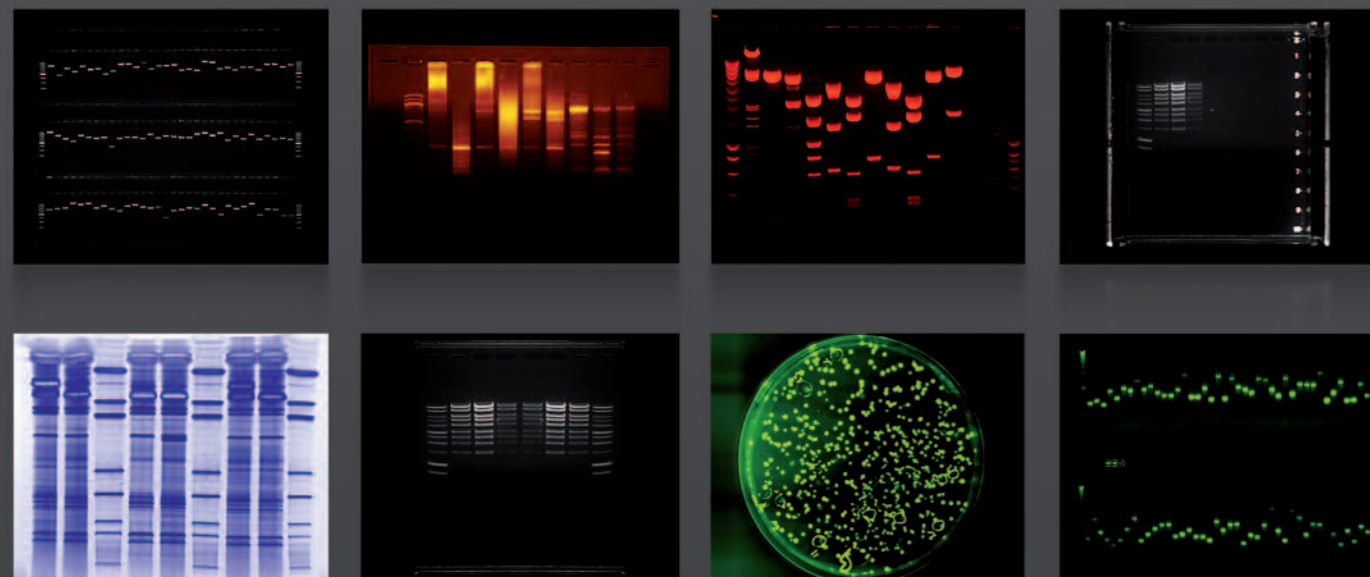
### > Capture and print

#### • Affordable scientific CCD package

Essential V2 is as superbly suited to simple, rapid capture and print applications as it is to high precision image optimisation and capture. It is therefore 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. The Essential V2 specifications are ideal for routine documentation.

#### • Efficient and versatile

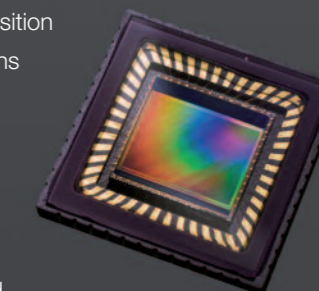
The cutting edge Essential V2 camera and optics deliver the highest scientific imaging grade possible for the most demanding applications. The system has the ability to grow with the user and has a list of features long enough to satisfy the most demanding lab user. In research laboratories where premium quality, sensitivity and precision are required, Essential V2 comes into its own.



## Fulfil your ESSENTIAL need

### > The cherry on the cake

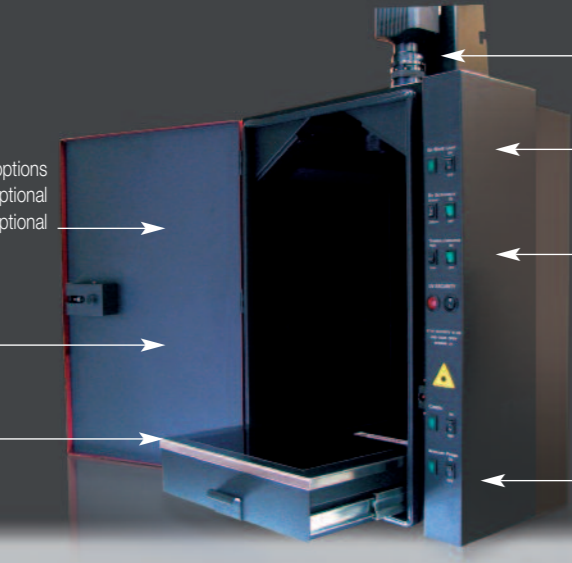
- Ideal for publication and routine documentation
- Scientific Sony chip CCD camera
- 1 megapixel – 12-bit pixel depth
- Patented UVI-Pure technology available
- Extreme ease of use
- Auto-exposure
- Autofocus with motorised zoom option
- Focusing gauge for precise focusing
- USB connection
- Comprehensive 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™



# GELDOC - FLUORESCENCE

## D77 cabinet

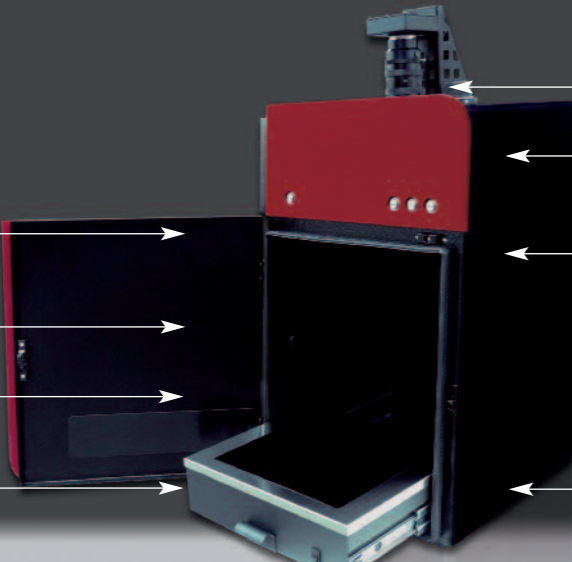
### Anatomical discovery



- Choice of 12 illumination options
- Bio-fluorescence and multiplexing ready – optional
- Epi-Bright Multi-wavelength source – optional
- Smart control panel with UV security option
- Say no to plastic
- Steel and stainless steel darkroom
- Epoxy-painted for chemical resistance
- Manual or motorised zoom lens options
- Patented focusing assistant
- Autofocus mode for the motorised zoom lens option
- Multi-position filter wheel to cover virtually all applications
- Dual white light epi (fluorescent tube)
- Optional dual UV epi 254 & 365nm
- Roll-out transilluminator
- UVI-Pure option
- UV security timer
- Single (312nm) or dual wavelength (312 & 365nm) for preparative work
- White light / Blue light conversion screen available

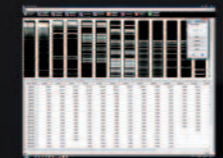
## D56 cabinet

### Anatomical discovery



- Smart control panel with UV security option
- Say no to plastic
- Steel and stainless steel darkroom
- Epoxy-painted for chemical resistance
- Full imaging grade darkroom
- Complete black imaging body
- Complete black imaging body
- Manual or motorised zoom lens options
- Patented focusing assistant
- Autofocus mode for the motorised zoom lens option
- Multi-position filter slide
- White light epi (fluorescent tube)
- Roll-out transilluminator
- UVI-Pure option
- UV security timer
- Single (312nm) or dual wavelength (312 & 365nm) for preparative work
- White light / Blue light conversion screen available



	<b>PLATINUM HD2</b> THE POWER MACHINE	<b>FIREREADER</b> EXPAND YOUR TERRITORIES	<b>ESSENTIAL V2</b> ALL YOU NEED IS ME
	<p><b>FLUORESCENCE</b></p> <p>Massive specifications for the highest performance gel doc systems</p> <ul style="list-style-type: none"> <li>• Extreme 2 megapixel resolution</li> <li>• Massive 16-bit imaging for enhanced dynamics</li> <li>• Ideal for resolution demanding applications such as 1D quantification, 2D gel, bio-fluorescence</li> <li>• USB super-fast connection</li> <li>• ‘One-touch’ fully automated image acquisition programme</li> </ul>	<p><b>FLUORESCENCE</b></p> <p>The best lab standard</p> <ul style="list-style-type: none"> <li>• 1,4 megapixels</li> <li>• Sony CCD chip camera</li> <li>• Massive 16-bit imaging for enhanced dynamics</li> <li>• Ideal for documentation, publication and quantification</li> <li>• USB connection</li> <li>• ‘One-touch’ fully automated image acquisition programme</li> </ul>	<p><b>FLUORESCENCE</b></p> <p>The system which fits your budget</p> <ul style="list-style-type: none"> <li>• 1 megapixel / 12-bit imaging</li> <li>• Sony CCD chip camera</li> <li>• Capture, print and save at a glance</li> <li>• Ideal for publication and routine documentation</li> <li>• USB connection</li> </ul>
<p><b>Configuration</b></p> 	D56 or D77 cabinet configuration available	D56 or D77 cabinet configuration available	D56 or D77 cabinet configuration available
<p><b>Camera &amp; optics</b></p> 	<p>2 megapixels / 16-bit imaging (65 536 grey levels)</p> <p>Dynamic range: 4.8 OD</p> <p>Extreme sensitivity</p> <p>Scientific grade camera with electronically variable shutter speed.</p> <p>USB super fast connection</p> <p>6 times optical zoom</p> <p>2 binning modes available</p>	<p>1,4 megapixels / 16-bit imaging (65 536 grey levels)</p> <p>Dynamic range: 4.8 OD</p> <p>Extreme sensitivity</p> <p>Scientific Sony chip CCD camera with electronically variable shutter speed</p> <p>USB connection</p> <p>6 times optical zoom</p> <p>2 binning modes available</p>	<p>1 megapixel / 12-bit imaging</p> <p>Super high sensitivity</p> <p>Scientific Sony chip CCD camera</p> <p>USB connection</p> <p>6 times optical zoom</p> <p>1 binning mode available</p>
<p><b>Software</b></p> 	<p><b>Platinum 1D software</b></p> <p>‘One-touch’ fully automated image acquisition programme</p> <p>Image enhancement, annotation and illustration</p> <p>3 image analysis modules:</p> <ul style="list-style-type: none"> <li>- 1D molecular weight (MW, volume, intensity...)</li> <li>- Colony counting</li> <li>- Distance calculation (RF, IEF...)</li> </ul>	<p><b>FireReader 1D software</b></p> <p>‘One-touch’ fully automated image acquisition programme</p> <p>Image enhancement, annotation and illustration</p> <p>3 image analysis modules:</p> <ul style="list-style-type: none"> <li>- 1D molecular weight (MW, volume, intensity...)</li> <li>- Colony counting</li> <li>- Distance calculation (RF, IEF...)</li> </ul>	<p><b>Essential 1D software</b></p> <p>Image enhancement, annotation and illustration</p> <p>3 image analysis modules:</p> <ul style="list-style-type: none"> <li>- 1D molecular weight (MW, volume, intensity...)</li> <li>- Colony counting</li> <li>- Distance calculation (RF, IEF...)</li> </ul>
<p><b>Options</b></p> 	<ul style="list-style-type: none"> <li>• UVI-Pure transilluminator</li> <li>• Single or dual wavelength</li> <li>• Manual or motorised zoom lens</li> <li>• Advanced UVI-Band or UVI-BandMap software.</li> </ul>	<ul style="list-style-type: none"> <li>• UVI-Pure transilluminator</li> <li>• Single or dual wavelength</li> <li>• Manual or motorised zoom lens</li> <li>• Advanced UVI-Band or UVI-BandMap software.</li> </ul>	<ul style="list-style-type: none"> <li>• UVI-Pure transilluminator</li> <li>• Single or dual wavelength</li> <li>• Manual or motorised zoom lens</li> <li>• Advanced UVI-Band or UVI-BandMap software.</li> </ul>

