

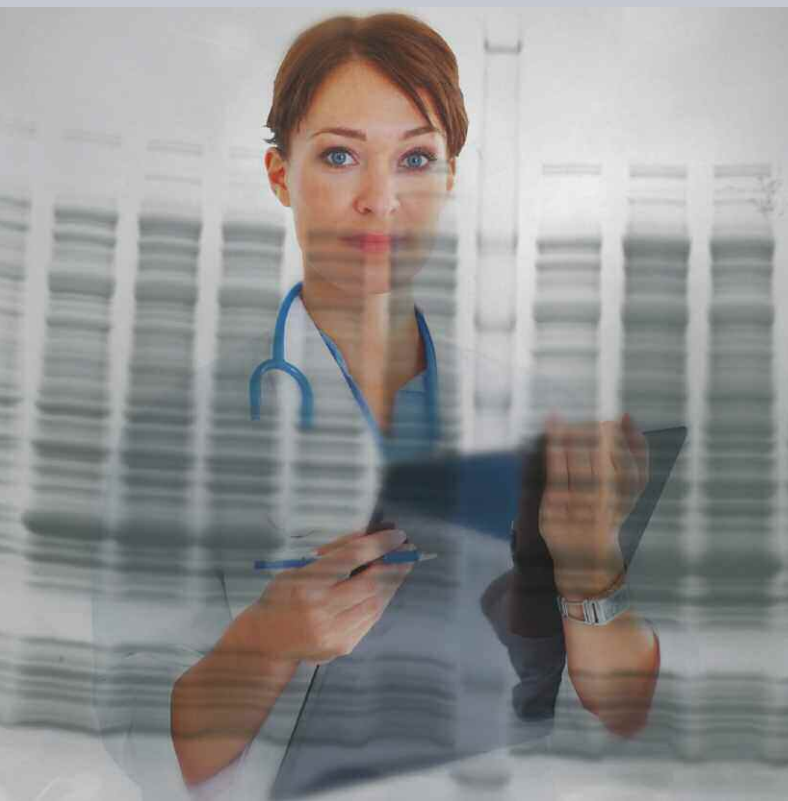
# INGENIUS<sup>3</sup>

Low cost, high performance  
gel documentation  
and analysis

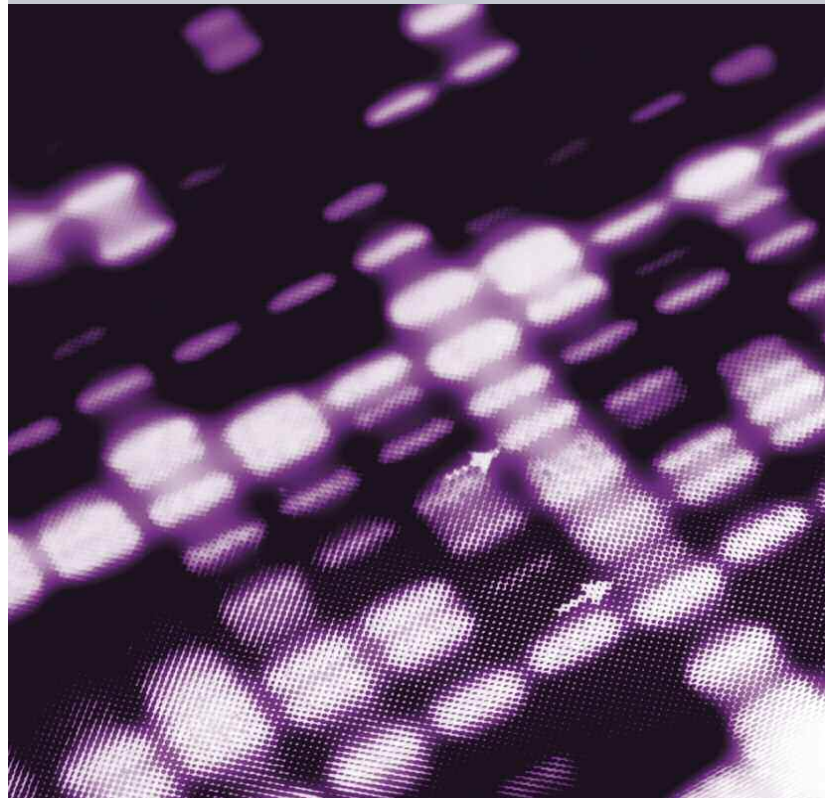


# INGENIUS<sup>3</sup>

When simplicity and budget matter. The **InGenius<sup>3</sup>** gel documentation and analysis system is compact, easy to use and offers an affordable route to gel capture and analysis. Using many of the features found on the higher specification Syngene products, the **InGenius<sup>3</sup>** makes a simple but sophisticated system for any laboratory.



The **InGenius<sup>3</sup>** uses a high performance 3m pixel camera. The darkroom assembly is easily connected to a PC. GeneSys image acquisition software quickly and easily enables images to be captured, archived and edited if required.



## GeneSys image acquisition software

GeneSys software is intuitive and ensures that perfect images are captured every time. An image browser facility allows you to view stored images. Previously saved protocol configurations can be easily accessed.



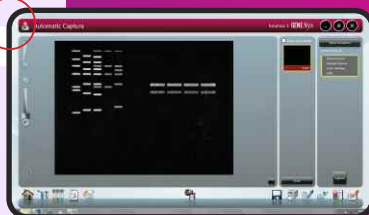
The user need only select the sample format, sample type and matrix type for the **InGenius<sup>3</sup>** system to configure itself to capture the best image.



The type of dye being used can be selected from the extensive internal database.



When using automatic capture the system will advise the optimum imaging conditions. Captured images are displayed in the main part of the screen, while previously captured images are displayed in an image pool as a series of thumbnails.



A full range of editing tools are available to annotate, manipulate, enhance, save and print the image.



The user can have full manual control of all functions.



## InGenius<sup>3</sup> applications

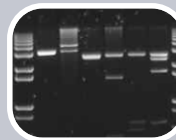
### DNA

With **InGenius<sup>3</sup>** you can use the UV transilluminator to capture images of DNA gels stained with Ethidium Bromide, SYBR<sup>®</sup> dyes and many other fluorophores



### Blue light

The blue light LED transilluminator allows you to view some fluorescent stains with better clarity and with less damage to DNA



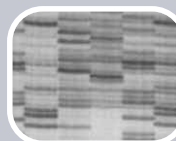
### Visible light

With the transmitted visible light converter, **InGenius<sup>3</sup>** can be used to view gels which have been stained with silver stain and Coomassie blue. You can also view tissues, slides and films



### AutoRads

**InGenius<sup>3</sup>** features a mega resolution camera which is ideal for capturing images requiring high detail. This is especially true when looking for 'separation' between bands and spots. Capturing high quality images of Autorads is one of the strengths of **InGenius<sup>3</sup>**



### Spot blots

Capturing and analysing spot blots is another very simple application for **InGenius<sup>3</sup>** and GeneTools software



These are just some of the applications that can be used with **InGenius<sup>3</sup>**. The Syngene Applications & Support Department is always ready to discuss your particular application needs and how they can be imaged using the **InGenius<sup>3</sup>**. The Syngene website contains further technical notes and FAQs covering the use of all Syngene gel documentation systems. Further details can be found at [www.syngene.com](http://www.syngene.com)

## Capture, store and manipulate images with GeneSys



Image acquisition with a single button



Auto exposure/manual exposure/series capture



Extended dynamic range up to 65,536 grey levels



Neutral fielding for correction of uneven background illumination



Toolbox - annotation/sharpening/inverting



Saturation control - see which areas of the image are over-exposed

## Analyse, document and quantify gels with GeneTools



1D analysis at the 'click' of a button



MW/BP calibrations



Quantity calibrations



Spot blot/colony plate analysis



Band matching functions



### CAMERA

- CCD digital camera
- 3m pixels
- USB2 connection

### LENS

Superior zoom lens for exceptional image quality

### FILTER DRAWER

Use a range of filters for extensive choice of fluorescent applications\*

### SAFETY SWITCH

Protects from accidental UV exposure when opening door

### INTERNAL LED WHITE LIGHT

For sample positioning and focusing

### TRANSILLUMINATOR (option)

- For UV or blue light
- UV transilluminator slides in and out of darkroom
- Blue LED light (UltraSlim-LED) - sits on a slide in and out tray
- Visible light converter

### SLIDING DOOR

Space saving sliding door

\*see the on-line Syngene database for details

## InGenius<sup>3</sup> features & benefits

### Features

Compact darkroom with sliding door - 40.0(w) x 30.0(h) x 37.5(d) cms

3 million pixel camera

12/16 bit images (0 - 65,535 grey levels dynamic range)

Filter drawer

UV to visible light converter screen (option)

GeneTools analysis software

Connect to any PC

Transilluminators (option)

### Benefits

Small footprint taking up minimal laboratory bench space

Good quality images

Precise quantitation

Capable of viewing a wide range of different fluorophores

Easy imaging of protein gels, autoradiographs and colony plates

Saves time by automating analysis of gels, colony plates & blots

Use a computer of your choice

Choice of UV or blue light

## UltraSlim-LED specification

Dimension (mm)	210(d) x 210(w) x 30(h)
Gel size (mm)	100 x 120
Wavelength (nm)	470nm
Power	DC 24v 0.65A
Weight	1.3kg



## Superior gel illumination

UltraSlim-LED option uses a high intensity LED array which can illuminate a range of dyes including GelRed, GelGreen, SYBR®Safe, EtBr and the new UltraSafe blue dye. UltraSlim-LED provides a uniform and bright excitation across gels up to 12 x 10cm.

The unit is compact and slimline and has an array of LEDs which illuminate samples from the side, providing low signal to noise ratio (S/N). A built-in filter/lid provides the optimum viewing conditions and is ideal for band cutting.

The UltraSlim-LED is used instead of the UV transilluminator and is positioned on a sliding tray.

# INGENIUS<sup>3</sup>

The InGenius<sup>3</sup> gel documentation and analysis system is compact, easy to use and offers an affordable route to gel capture and analysis.

## InGenius<sup>3</sup> specification

	InGenius <sup>3</sup>
<b>Camera</b>	
Sensor	1/3 inch
Resolution	3 million pixels
Bit depth	12/16 bit (extended)
Greyscales	0 - 65,536
Dynamic range	3.6/4.8 (extended)
Lens	Manual zoom 6.5 - 39, F1.4
Viewing area	20 x 20cm
<b>Illumination</b>	
Slim UV transilluminator 20 x 20cm	Option
UltraSlim-LED transilluminator 10 x 12cm	Option
Visible light converter	Option
White Epi overhead	Yes
<b>Software</b>	
GeneSys image capture	Yes
GeneTools image analysis	Yes
GeneDirectory	Option







Please refer to  
[www.syngene.com](http://www.syngene.com)  
for all ordering  
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Please refer to [www.syngene.com](http://www.syngene.com) for all ordering information

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