



LOW COST HIGH PERFORMANCE GEL DOCUMENTATION AND ANALYSIS







	INGENIUS 3
CAMERA	
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
ILLUMINATION	_
Slim transilluminator 20 x 20cm	Option
UltraSlim Blue-LED transilluminator 10 x 12cm	Option
Visible light converter	Option
White Epi overhead	Yes
Blue light convertor screen	Option
SOFTWARE	_
GeneSys image capture	Yes
GeneTools image analysis	Yes
	Option

In the United States

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In Canada
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INGENIUS 3

When simplicity and budget matter.

The InGenius 3 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 3 makes a simple but sophisticated system for any laboratory.

The InGenius 3 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.

FEATURES	BENEFITS
Compact darkroom with sliding door - 62(h) x 37.5(d) x 40(w) cms	Small footprint taking up minimal laboratory bench space
3 million pixel camera	Good quality images
12/16 bit images (0 - 65,535 grey levels dynamic range)	Precise quantitation
Filter drawer	Capable of viewing a wide range of different fluorophores
UV to visible light converter screen (option)	Easy imaging of protein gels, autoradiographs and colony plates
GeneTools analysis software	Saves time by automating analysis of gels, colony plates & blots
Connect to any PC	Use a computer of your choice
Transilluminators (option)	Choice of UV or blue light



SUPERIOR GEL ILLUMINATION

UltraSlim Blue-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.

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



ULTRASLIM-LED SPECIFICATION

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





CAPTURE, STORE & 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
- Dynamic fielding for correction of uneven background illumination
- Toolbox annotation/sharpening/inverting
- Saturation control see which areas of the image are over-exposed

ANALYSE, DOCUMENT & QUANTIFY GELS WITH GENETOOLS

In Genius

- 1D analysis at the 'click' of a button
- MW/BP calibrations
- Quantity calibrations
- Spot blot/colony plate analysis
- Band matching functions

INGENIUS 3

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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 applications.



SAFETY SWITCH

Protects from accidental UV exposure when opening door.



WHITE LIGHT

For sample positioning and focusing.



TRANSILLUMINATOR (OPTIONAL)

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
- Blue light converter screen



SLIDING DOOR

Space saving sliding door.

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 InGenius³ 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 3 APPLICATIONS



DNA

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



AUTORADS

InGenius 3 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 3.



VISIBLE LIGHT

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



BLUE LIGHT

The blue light LED transilluminator allows you to view some fluorescent stains with better clarity and with less damage to DNA. Blue light converter screen option available for viewing 'safer' fluorescent dyes such as SYBR® safe.



SPOT BLOTS

Capturing and analysing spot blots is another very simple application for InGenius 3 and GeneTools software.

These are just some of the applications that can be used with InGenius 3 The Syngene Applications & Support Department is always ready to discuss your particular application needs and how they can be imaged using the InGenius 3. The Syngene website contains further technical notes and FAQ's covering the use of all Syngene gel documentation systems. Further details can be found at www.syngene.com

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Fisher Scientific Product code	Syngene Product Code	Description	
01257158	IG3	InGenius 3, 3MP 12/16bit system, Wit epi LED white lights, filter drawer & UV filter. Supplied with GeneSys and unlimited copies of GeneTools. Max image size 20 x 20cm. Transilluminate & converter not supplied please select required source from list below. PC required (not included)	V or
01257221	GE-2020M-A	Transilluminator (20 x 20cm; 302nm) 115V, 60Hz with runners	
01257222	GE-2020M-E	Transilluminator (20 x 20cm; 302nm) 230V, 50Hz with runners	Not available for Canada
01257211	FILTSP-58	Short pass filter (Sw032)	For IG, UG and DG units
01257231	GE-CONVERT5	Visible light converter	For IG, UG, TG and DG systems
01257234	GE-ULTRA-SLIM-LED	Blue slimline LED transilluminator, 10x12cm + sliding tray	For IG, UG, TG and DG systems. Not voltage dependant
01257179	CONVERTBLUE-2126	UV to Blue Light converter, Size 21x26cm, suitable for safe dyes	
01257233	GE-NFS	Neutral field screens for UV neutral fielding (1 blue, 1 frosted).	Corrects for any uneven Illumination by acquiring a "neutral-field" reference image with the same intensity illumination as the experiment. For use with Epi-UV lighting and Transilluminators in IG & UG systems
01257298	P95DW	Mitsubishi Digital Thermal Printer	
01257289	К65НМ	Thermal paper, Matt, 1 roll	
01257290	K91HG	Thermal paper, Glossy, 1 roll	For thermal printers
01257294	SWT8	Short wave tube, 8W, 254nm	
01257292	MWT8	Medium wave, 8W, 302nm	
01257291	LWT8	Longwave 8W, 365nm	

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i-UV ms			