U:GENIUS 3

Gel imaging at a touch

SYNGENE

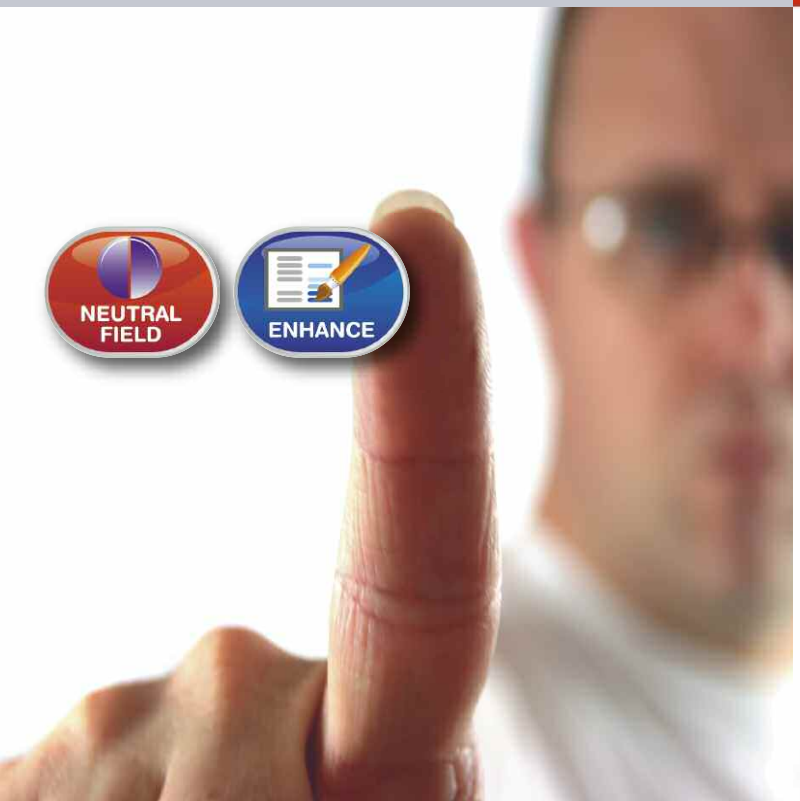
A DIVISION OF THE SYNOPTICS GROUP

U:GENIUS^3

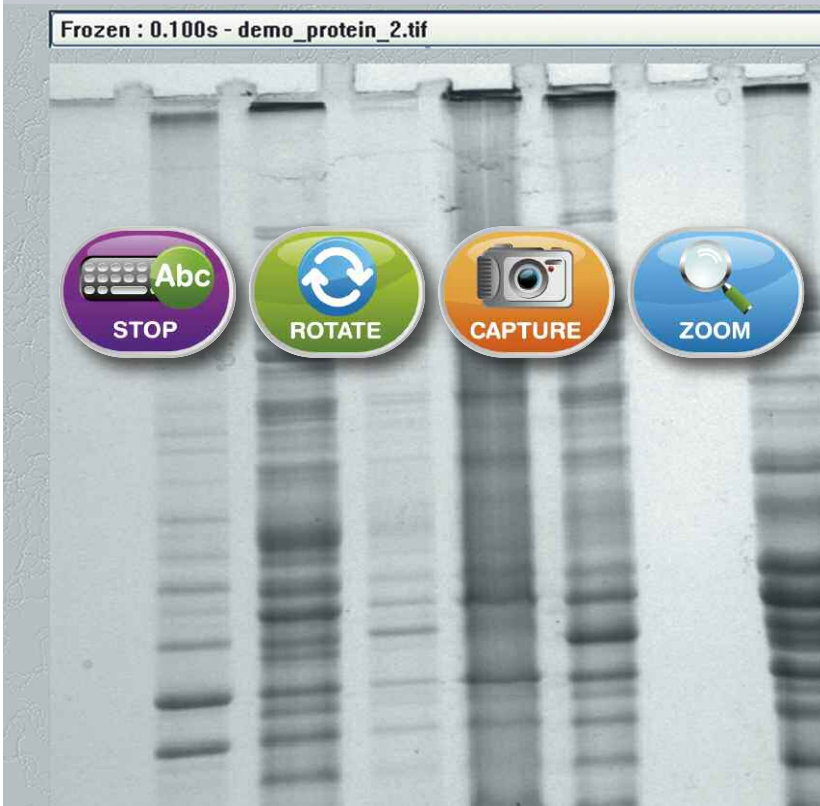
Simply Genius. Designed to make your gel imaging simple, quick and easy. No set up, no external computer - just a complete imaging system for all your 1D needs.

A smooth and intuitive touch screen ensures that anyone can use a **U:Genius^3** with virtually no previous experience of gel imaging.

U:Genius^3 - from switch-on to perfect image at a touch.



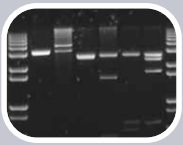
Use the large colour touch screen to navigate your way through the functions of **U:Genius³**. The icon driven menu is both intuitive and easily understood. All functions from image capture, manipulation, printing to archiving are at the touch of a button.



U:Genius³ applications

DNA

With a **U:Genius³** you can use the UV transilluminator to capture images of DNA gels stained with Ethidium Bromide

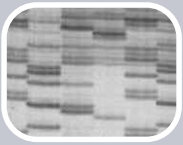


Blue light

The blue light LED transilluminator allows you to view some fluorescent stains with better clarity and with less gel damage
Examples: GFP, SYBR®Green, SYBR Gold, SYBR Safe, SYPRO Ruby, Safe View, Flamingo, Pro-Q Diamond, Pro-Q Emerald, Fluorescein, Rhodamine Red™, Texas Red®, Deep Purple™ and others

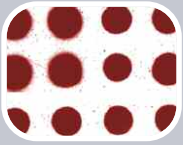
Visible light

With the transmitted visible light converter, a **U:Genius³** 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

The **U:Genius³** 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 the **U:Genius³**



Spot blots

Capturing and analysing spot blots is another very simple application for **U:Genius³**

These are just some of the applications that can be used with **U:Genius³**. The Syngene Applications & Support Department is always ready to discuss your particular application needs and how they can be imaged using the **U:Genius³**. 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**

U:Genius³ system

LIVE IMAGE
capture the image you see with a single touch

AUTO EXPOSURE
automatic exposure control lets **U:Genius³** give you the perfect image

EXPOSURE CONTROL
manually set the exposure

SATURATION DETECTION
see which areas of the image are over exposed

NEUTRAL FIELDING
correction of any uneven background illumination

EDR
Syngene's patented extended dynamic range function

SAVE/LOAD
save or load image to USB memory stick, internal hard drive or use the networking capabilities

ZOOM
zoom image to view areas in greater detail

PRINT
send image to attached printer

ROTATE
rotate image by degrees - no more "skewed" images

SHARPEN
add sharpening to enhance band edges

SMOOTH
even out background noise when viewing

INVERT
view the reverse image

ANNOTATION
add annotation (text,shapes, lines) to images

CAMERA
Superb 3 million pixel resolution

LENS
Superior zoom lens for exceptional image quality

FILTER DRAWER
Use a range of filters for extensive choice of applications*

INTEGRAL COMPUTER
High specification integral computer featuring embedded Windows XP operating system:
- network
- USB ports
- hard drive

TOUCH SCREEN
Large colour LCD screen

USB
Stores images on a USB memory stick

SAFETY SWITCH
Protects from accidental UV exposure when opening door

INTERNAL WHITE LIGHT
For sample positioning and focusing

TRANSILLUMINATORS (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

SLIDING DOOR
Space saving sliding door

*see the on-line Syngene database for details

U:Genius^3 features & benefits

Features	Benefits
Compact darkroom with sliding door - 46.5(w) x 51.0(h) x 39.0(d) cms	Small footprint taking up minimal laboratory bench space
Can use a range of transilluminators (20 x 20 cm)	Versatile - not restricted to using only small gels
No compromise on resolution - 3 million pixels	Exceptional resolution for high quality images
Easy to access filter drawer accepts interchangeable filters	Capable of viewing a wide range of different fluorophores
Integral computer	Full networking capability, USB ports and an internal hard disk for image storage
Colour touch screen	Full intuitive touch control of all functions with large image view
Image enhancements and annotations	Total control over image quality
Save images in TIFF, BMP or JPEG format	Simple to download to any PC or Mac

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 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.

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U:Genius³ specification

	U:Genius³
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 UV transilluminator 20 x 20cm	Option
UltraSlim Blue-LED transilluminator 10 x 12cm	Option
Visible light converter	Option
White Epi overhead	Yes
Software	
Image capture	Yes
GeneTools image analysis	Yes
GeneDirectory	Option

Please refer to www.syngene.com for all ordering information

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Over 75,000 scientists world-wide in pharmaceutical and biotech companies, as well as academic and government institutions, have chosen Syngene as their expert imaging partner. If you'd like to find out why, please contact us or one of our dealers for more information and a demonstration of the revolutionary **U:Genius³**

Please refer to www.syngene.com for all ordering information

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