

Nu Genius

**GEL IMAGING
AT A TOUCH**



S Y N G E N E

A DIVISION OF THE SYNOPTICS GROUP

NUGENIUS

NuGenius is a new generation, low cost, integrated system for DNA/protein analysis and gel documentation. Continuing the “Genius” range, the **NuGenius** features an integrated 7 inch touch screen and a built in processor running our new dedicated **NuGenius** software for image capture and editing.

A new ground breaking 5m pixel camera gives exquisite pixel resolution and unrivalled sensitivity in its class. **NuGenius** uses an f/1.2 motor driven zoom lens to enable perfect imaging of any gel or blot size. The maximum viewing area is 20 x 24cm which is very large for such a small, compact unit.

Internal lighting includes a UV transilluminator option for working with DNA gels. Our new UV-Blue light converter screen allows imaging of all Safe dyes. A visible light converter option can quickly extend its use for working with visible gels and blots. Overhead LED white lighting is included as standard for easy sample positioning and focusing.

NuGenius is compatible with ‘safe dyes’ such as SYBR® Gold, SYBR® Safe, GelGreen™ and many more as well as with visible light applications such as Coomassie blue and silver stain gels. **NuGenius+** has been designed for stain free applications. It has a camera that enables the user to expose for longer periods of time.

Images are saved direct to USB memory stick for easy transfer to a PC or laptop or via the optional Network dongle.

Quickly generate quantitative data with GeneTools analysis software. **NuGenius/NuGenius+** comes with unlimited copies of GeneTools.





FEATURES

Compact darkroom with hinged door
5 million pixel camera
Motor driven optics
Can use a range of lighting
UV-visible light converter screen and
UV-blue light converter screen option
Touch screen
Image enhancements and annotations
GeneTools analysis software

BENEFITS

Small footprint taking up minimal laboratory bench space
Exceptional resolution for high quality images
Ease of control
Versatile - white light, blue light, UV
Easy and safe imaging of DNA and protein gels
Full intuitive touch control of all functions
Total control over image quality
Saves time by automating analysis of gels, colony plates and blots

NUGENIUS



CAMERA

Superb 5 million pixel resolution.



LENS

f/1.2 motor driven zoom lens.



INTERNAL COMPUTER

Raspberry Pi.



TOUCH SCREEN

7".



INTERNAL LIGHTING

Internal LED white light for ease of sample positioning.



HINGED DOOR

Easy access to darkroom.



SAFETY SWITCH

Override UV protects from accidental UV exposure when opening door.

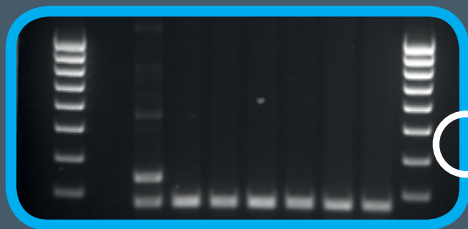


TRANSILLUMINATOR (OPTIONAL)

- UV transilluminator, slides in and out, Auto UV shut off
- UV-blue light converter screen
- UV-visible light converter screen

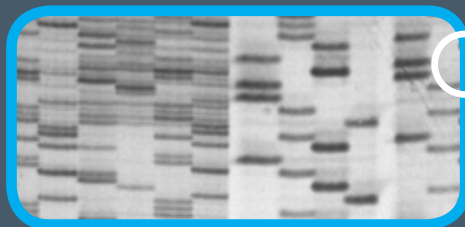


NUGENIUS APPLICATIONS



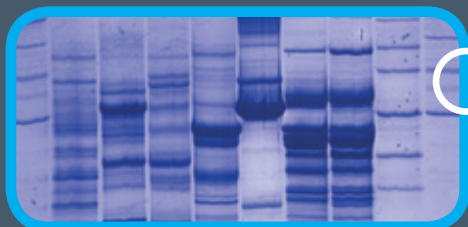
DNA

With a **NuGenius** you can use the UV transilluminator to capture images of DNA gels stained with Ethidium Bromide.



AUTORADS

The **NuGenius** features a 5 million pixel resolution camera 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 **NuGenius**.



VISIBLE LIGHT

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



BLUE LIGHT

A blue light conversion screen is available for applications requiring blue light excitation, eg, "Safe" dyes such as GFP, SYBR@Green, SYBR Gold, SYBR Safe, SYPRO Ruby, Safe View and Flamingo.



STAIN FREE (WITH NUGENIUS+)

Stain free technology removes extra steps and long delays from staining with dyes such as Coomassie blue. **NuGenius+** is capable of capturing stain free images automatically.



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

Please contact applications@syngene.com

SPECIFICATION

SYSTEM	NUGENIUS	NUGENIUS+
CAMERA	5 million pixel	5 million pixel
Sensor	1/2.5 inch	2/3 inch
Bit depth	12/16 bit	12/16 bit
Greyscale	0-65,536	0-65,536
Dynamic range	3.6/4.8 (extended)	3.6/4.8 (extended)
Lens	8 - 48mm f/1.2	11.5 - 69mm f/1.4
Viewing area	20 x 24cm	20 x 24cm
ILLUMINATION		
Slim transilluminator 20 x 24cm	Option	Option
Blue converter screen 21 x 26cm	Option	Option
Visible light converter	Option	Option
White epi	Yes	Yes
7 INCH TOUCH SCREEN		
SOFTWARE		
Image capture	Yes	Yes
GeneTools analysis	Yes	Yes
GeneDirectory	Option	Option
PRINTER (optional)		
	P95DW Mitsubishi digital thermal printer	P95DW Mitsubishi digital thermal printer
	Canon Selphy	Canon Selphy
Paper and ink	K65HM thermal paper, matt	K65HM thermal paper, matt
	K91HG thermal paper, glossy	K91HG thermal paper, glossy
	Canon KP-108IN	Canon KP-108IN
NETWORK DONGLE (optional)		
DIMENSIONS		
H x W x D cms	75 x 31 x 45	75 x 31 x 45
Weight	20kg	20kg

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 distributors for more information and a demonstration of the revolutionary **NuGenius**.

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

Syngene Europe and International Headquarters:

Beacon House Nuffield Road Cambridge CB4 1TF UK
Tel: +44 (0)1223 727123 Fax: +44 (0)1223 727101 email: sales@syngene.com

Syngene USA Headquarters:

5123 Pegasus Court Suite Q Frederick MD 21704 USA
Tel: 800-686-4407/301-662-2863 Fax: 301-631-3977 email: ussales@syngene.com

Website: www.syngene.com