



## **FLEXIBLE**

DNA, stain free,  
visible protein  
analysis

## **INTUITIVE**

touch screen system

## **COMPACT**

benchtop size with  
built in PC

# NuGenius

# XE



# NuGenius XE

## GEL IMAGING AT A TOUCH.

### SPECIFICATIONS

|                    |                               |
|--------------------|-------------------------------|
| Image Resolution   | 5MP                           |
| Bit Depth          | 12/16 Bit                     |
| Dynamic Range      | 3.6/4.8 OD                    |
| Lens               | 8-48mm F/1.2                  |
| Sample Size        | 20x24cm                       |
| Sensor             | 1/2.5 inch                    |
| Dimensions (HxWxD) | 75x31x45cm                    |
| Weight (kg)        | 20                            |
| Power Input (V)    | 100-240                       |
| Touch Screen Size  | 7"                            |
| Memory             | 80GB                          |
| OS                 | Windows 10<br>Enterprise LTSC |
| USB                | 3x USB3, 2x USB2              |
| Illumination       | White epi                     |

### Powerful

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

### Flexible

Internal lighting includes a UV transilluminator option for working with DNA gels. Our new UV-Blue light converter screen allows imaging of a wide range of safe dyes, Ethidium Bromide, Coomassie blue and silver stain, stain free and others. A visible light converter option can quickly extend its use for working with visible gels and blots. The overhead LED white lighting is included as standard for easy sample positioning and focusing.

### Versatile

The NuGeniusXE has been designed for stain free applications. Its camera enables the sample to be exposed for extended periods. Safely excise your DNA bands from an agarose gel with the darkroom door open using the optional safety shield protecting the user when working with UV.

### Intuitive

Images are saved directly to USB or network for easy transfer. Quickly generate quantitative data with GeneTools analysis software. NuGeniusXE comes with unlimited copies of GeneTools.

## What you need to know

### BENEFITS

Small footprint taking up minimal bench space.

Exceptional resolution for high-quality images.

Ease of control with touchscreen technology.

White light, blue light and UV testing options.

Easy and safe imaging of DNA and protein gels.

Save time by automating analysis of gels, colony plates and colourimetric blots.



### FEATURES

Compact darkroom with a hinged door.

5 million pixel camera.

Motor-driven optics.

Options for a range of lighting.

Visible and blue light converter screens.

Built-in touch screen.

Image enhancements and annotations.

GeneTools analysis software.



#### Camera

5 million pixel resolution

#### Lens

f/1.2 motor driver zoom lens

#### Integral Computer

Windows 10 Enterprise LTSC OS with network through LAN port with a 7" touch screen

#### Internal Lighting

Internal LED white light for ease of sample positioning

#### Hinged Door

Easy access to the darkroom

#### Safety Switch

Override UV protects from accidental UV exposure when opening the door.

#### Transilluminator (optional)

UV transilluminator slides in and out with auto shut off. The UV blue light converter screen and UV visible light converter screen.

### SCHEMATIC



# Applications

These are just some of the applications that can be used with NuGenius XE.

Don't see your application here? The Syngene Support team is available to discuss your application needs. Please contact [support@syngene.com](mailto:support@syngene.com)

|                               |            |
|-------------------------------|------------|
| <b>DNA Gels</b>               | <b>YES</b> |
| <b>Protein Gels</b>           | <b>YES</b> |
| <b>Fluorescence</b>           | <b>YES</b> |
| <b>Chemiluminescence</b>      | <b>NO</b>  |
| <b>Image Capture Software</b> | <b>YES</b> |
| <b>Analysis Software</b>      | <b>YES</b> |

## DNA

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

## Autorad Film

Featuring a 5 million pixel resolution camera ideal for capturing images requiring great detail. This is especially true when looking for separation between bands or spots. Capturing high-quality images of Autorads is one of the strengths of the NuGenius XE.

## Visible Light

With the visible light converter, the NuGenius XE can be used to view gels stained with, e.g. 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, e.g., "Safe" dyes such as GFP, SYBR®Green, SYBR Gold, SYBR Safe, SYPRO Ruby, Safe View and Flamingo.

## Stain Free

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



# A world-leading supplier of Gel Doc, Chemiluminescence and Fluorescence imaging systems



## About Syngene

Founded in 1997, Syngene is a world-leading supplier of gel doc systems for rapid imaging and accurate analysis of visible gels, multiplexed fluorescence westerns, stain-free gels and chemiluminescent blots.

At Syngene we are dedicated to advancing the fields of Life Sciences, Molecular biology, Genomics, and Proteomics through our cutting-edge image analysis technology. Our range of products, including gel documentation, fluorescence, and chemiluminescence imaging equipment, is designed to meet the highest standards set by regulatory agencies and accreditation bodies. Our commitment to providing the best products, such as our instant gel documentation and automated chemiluminescence, is unwavering.

Our systems are used globally by thousands of scientists, who successfully contribute accurate data to influential projects in many of the world's top pharmaceutical companies and major research institutes.

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