

SYNGENE



## **FLEXIBLE**

DNA, stain free,  
visible protein  
analysis

## **INTUITIVE**

touch screen system

## **COMPACT**

benchtop size with  
built in PC

OFFERING 5, 6, AND 9MP CAMERA OPTIONS

# NuGeniusXE

Range

# NuGeniusXE Range

## GEL IMAGING AT A TOUCH.

SPECIFICATIONS			
Image Resolution	5MP	6MP	9MP
Bit Depth	12/16 Bit		
Dynamic Range	3.6/4.8 OD		
Lens	8-48mm F/1.2		
Sample Size	20x24cm		
Sensor (inch)	1/2.5	1/2.4	1/2
Dimensions (HxWxD)	75x31x45cm		
Weight (kg)	20		
Power Input (V)	100-240		
Touch Screen Size	7"		
Memory	80GB		
OS	Windows 10 Enterprise LTSC		
USB	3x USB3, 2x USB2		
Illumination	White epi		

### Powerful

Groundbreaking 5, 6 and 9 m pixel camera options provide exquisite pixel resolution and unrivalled sensitivity in its class. NuGeniusXE range 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 range 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 range 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, 6 and 9 million pixel options
- 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, 6, and 9 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 applications that can be used with NuGeniusXE range

Don't see your application here? Contact our team at [support@syngene.com](mailto:support@syngene.com) to discuss your specific needs.

DNA Gels	YES
Protein Gels	YES
Fluorescence	YES
Chemiluminescence	NO
Image Capture Software	YES
Analysis Software	YES



### DNA

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



### Autorad Film

Featuring a high 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 NuGeniusXE range.



### Visible Light

With the visible light converter, the NuGeniusXE range 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

NuGeniusXE range 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.



## Why Syngene?

# A World-Leading supplier of Gel Doc, Chemiluminescence and Fluorescence imaging

### About Syngene

Since 1997, Syngene has been a global leader in gel doc systems, enabling rapid imaging and accurate analysis of visible gels, fluorescence westerns, stain free gels, and chemiluminescent blots.

At Syngene, we're committed to advancing Life Sciences, Molecular Biology, Genomics, and Proteomics with cutting-edge imaging technology. Our products are designed to meet the highest regulatory and accreditation standards, ensuring precise results.

Our systems are trusted by scientists worldwide, contributing to breakthroughs in top pharmaceutical companies and research institutes.



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