

# G:Box F3

**GREAT GEL IMAGING  
JUST A CLICK AWAY**



**SYNGENE**  
A DIVISION OF THE SYNOPTICS GROUP

# G:BOX F3

**G:BOX F3** is a high resolution, automated system for all your fluorescent and visible DNA and protein gel imaging, analysis and documentation needs.

## **SENSITIVE**

Featuring a high-resolution 5 million pixel camera and motor driven zoom lens, a **G:BOX F3** gives you outstanding images with incredible spatial resolution of both small and large gels. With a **G:BOX F3** you'll generate images you can trust of close bands or spots.

## **FLEXIBLE**

For imaging ethidium bromide gels, you can choose the high-performance UV transilluminator and you can opt for the blue light converter screen to view safe dyes or choose a white light converter screen for imaging visible stains. Both sit neatly over the transilluminator to give you the right lighting for your application.

## **SIMPLE**

Fully integrated with application-driven GeneSys software, you can detect nanogram quantities of DNA and proteins every time with this sensitive imager.

## **SECURE**

You can save and print your publication quality results, and with full audit trails, your data is fully secure when used in a 21 CFR Part 11 compliant environment. IQ/OQ/PQ documentation is available allowing the user to verify that a system meets defined installation, quality and performance specifications.

## **FUTURE-PROOF**

With our guarantee of free software upgrades and unlimited copies of GeneTools analysis software not just today but throughout your system's life, your **G:BOX F3** will always have the latest imaging and analysis capabilities. **G:BOX F3** can be upgraded to a G:BOX Chemi XRQ system for imaging chemiluminescence and western fluorescence.



# SOFTWARE



## GENESYS IMAGE CAPTURE SOFTWARE

### SIMPLE CAPTURE

For quick and easy imaging with a **G:BOX F3**, all you need to know is the size and type of gel you're using and GeneSys software automatically selects the right lighting and filters for you.

### PERFECT PICTURES

GeneSys includes Dynamic Fielding to automatically correct white light shadows, producing you a perfect 'flat' background. The software also has auto gamma control to automatically set black and white levels, improving definition between bands and your image background. The high-resolution camera generates publication ready pictures, which you can save as proprietary SGD or TIFF, JPEG or BMP formats and with full audit trails, your data is protected when used as part of a 21 CFR Part 11 compliant environment.

### QUICK QUANTIFICATION

GeneSys includes QuickQuant, for band quantification, saving you time, by allowing you to quantify images of protein and DNA bands after capturing your blot or gel images on the **G:BOX F3** system.

## GENETOOLS IMAGE ANALYSIS SOFTWARE

### ACCURATE ANALYSIS

The **G:BOX F3** comes with GeneTools image analysis software to let you rapidly detect lanes and bands providing accurate data from your captured images. Your data is fully 21 CFR Part 11 compliant and can be easily saved as image files or exported directly to Excel and Word.

Applications include:

- 1-D gel analysis
- MW/BP calculation
- E-gels
- Adding molecular weight ladders
- Band matching with dendrograms
- Spot and slot blots
- Band quantification (automatic and manual)
- Colony counting
- GeneDirectory (option) for extended band matching, cluster analysis, VNTR analysis, genotyping, RFLP studies, dendrogram generation and bootstrapping.

# G:BOX F3



## CAMERA

Superb 5 million pixel resolution, ensures you'll see and resolve those close bands.



## LENS

Motor driven zoom f1.2 lens. Also available with Lens Feedback option, allowing you to optimise your image capture using user protocols.



## FILTER CHOICE

A 7 position motor-driven filter wheel allows you to add a filter for the fluorescent stain you are working with. A UV filter is included as standard.



## INTERNAL LIGHTING

Environmentally-friendly, white LED EPI lighting lets you easily position your gel.



## LIGHTING OPTIONS

For imaging fluorescent and visible dyes, you have the choice of:

- Slide in and out UV or blue light transilluminator
- UV-blue light converter screen
- UV-visible light converter screen



## SAFE ACCESS

A hinged door with safety switches gives you easy darkroom access and protects you from accidental UV exposure when opening the door.



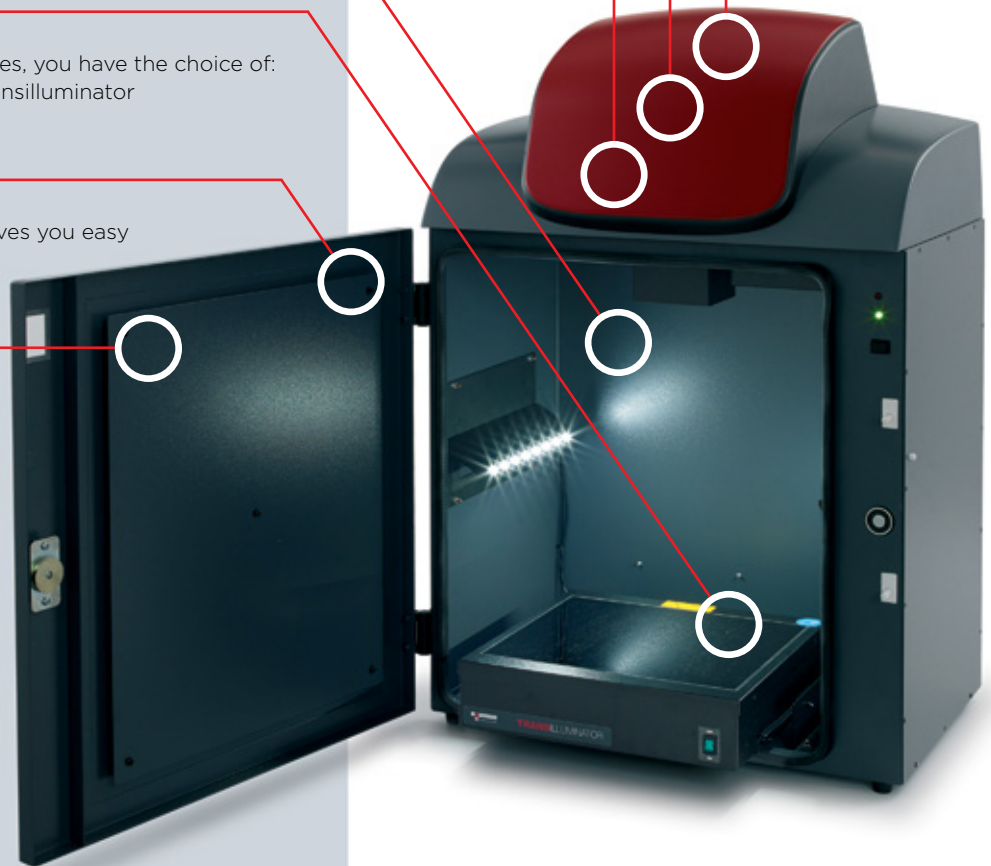
## CHOICE OF CONTROL

Easily integrating a **G:BOX F3** to your choice of PC and printer gives you more flexibility than using an integrated tablet, allowing you to run GeneSys touch screen controls on a large screen, store a huge number of images and rapidly print high quality pictures.



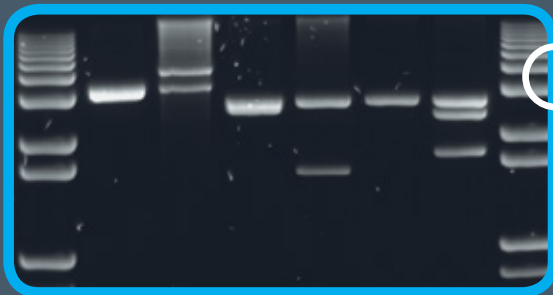
## TOTAL SUPPORT

With Syngene's exclusive three-year service and support warranty, unlimited copies of GeneTools image analysis software and free software upgrades, you'll always have access to the latest application capabilities without any hidden extra costs.



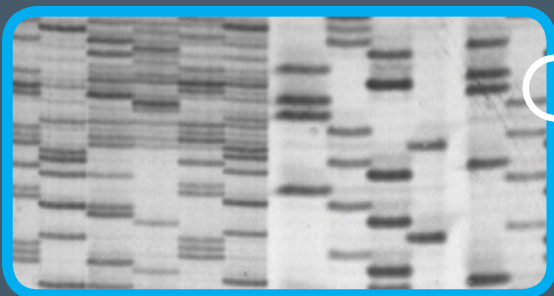


# G:BOX F3 APPLICATIONS



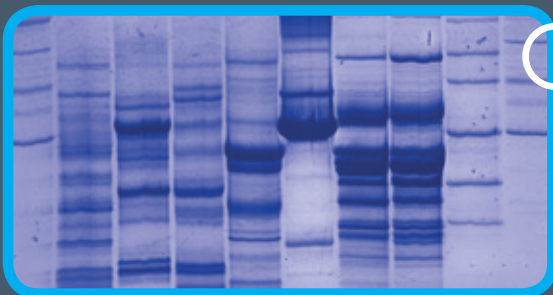
## BLUE LIGHT

To view safe dyes that require blue light excitation such as SYBR® Safe, SYBR® Gold, SafeView™, GelGreen™ and SYPRO® Ruby in the **G:BOX F3**, you can use a blue light converter screen or blue light transilluminator.



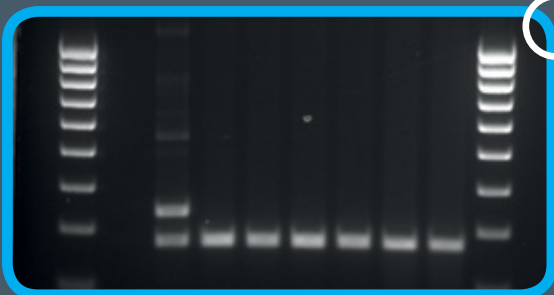
## AUTORADS

Featuring a 5 million pixel camera, the **G:BOX F3** is ideal for capturing all the details from an image. You can even resolve close bands and spots on autorads of your sequencing gels.



## VISIBLE LIGHT

With the visible light converter screen, you can use the **G:BOX F3** to view protein gels stained with Coomassie blue, Texas Red and silver stain. You can even image tissues and slides.



## DNA AND RNA

With the **G:BOX F3** you can use the slide in and out UV transilluminator to visualise DNA or RNA stained with ethidium bromide, SYPRO® or SYBR® dyes.

If you want to know about imaging other fluorescent and visible stains with a **G:BOX F3** system, then Syngene's Applications and Support Team is always ready to help. Contact them on [sales@syngene.com](mailto:sales@syngene.com)

# SPECIFICATION



**G:BOX F3**

## SYSTEM

### CAMERA

Image resolution	5 million pixels
Effective resolution	15.1 million pixels
A/D	12/16 bit
Greyscale	65,536
Lens (motor driven)	Zoom f1.2 F1.2 with lens feedback option
Filter wheel	7-position motor driven
UV filter	Yes
Use with external PC and printer	Yes

### LIGHTING

Epi LED White Lights	Yes
Epi UV Short, Medium, Long wave	Optional
Visible light converter (33cm x 31cm)	Optional
White light pad for visible stains (20cm x 14cm)	Optional
UltraBright LED blue light transilluminator (20cm x 16cm)	Optional
20 x 20cm or 25 x 30cm Short, Medium or Long wave or dual wavelength	Optional

### DIMENSIONS

Max image area (cm)	32.5 x 24.1
Min image area (cm)	5.6 x 4.2
W x H x D (cm)	57 x 84 x 45
Weight (kg)	Approx. 37
Power Input (V)	100-240



# WolfLabs

**Pricing on any accessories shown can be found by keying the part number into the search box on our website.**

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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Please contact us if this literature doesn't answer all your questions.