

# G:Box F3

GREAT GEL IMAGING  
JUST A CLICK AWAY



**G:BOX F3**

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

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## 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.



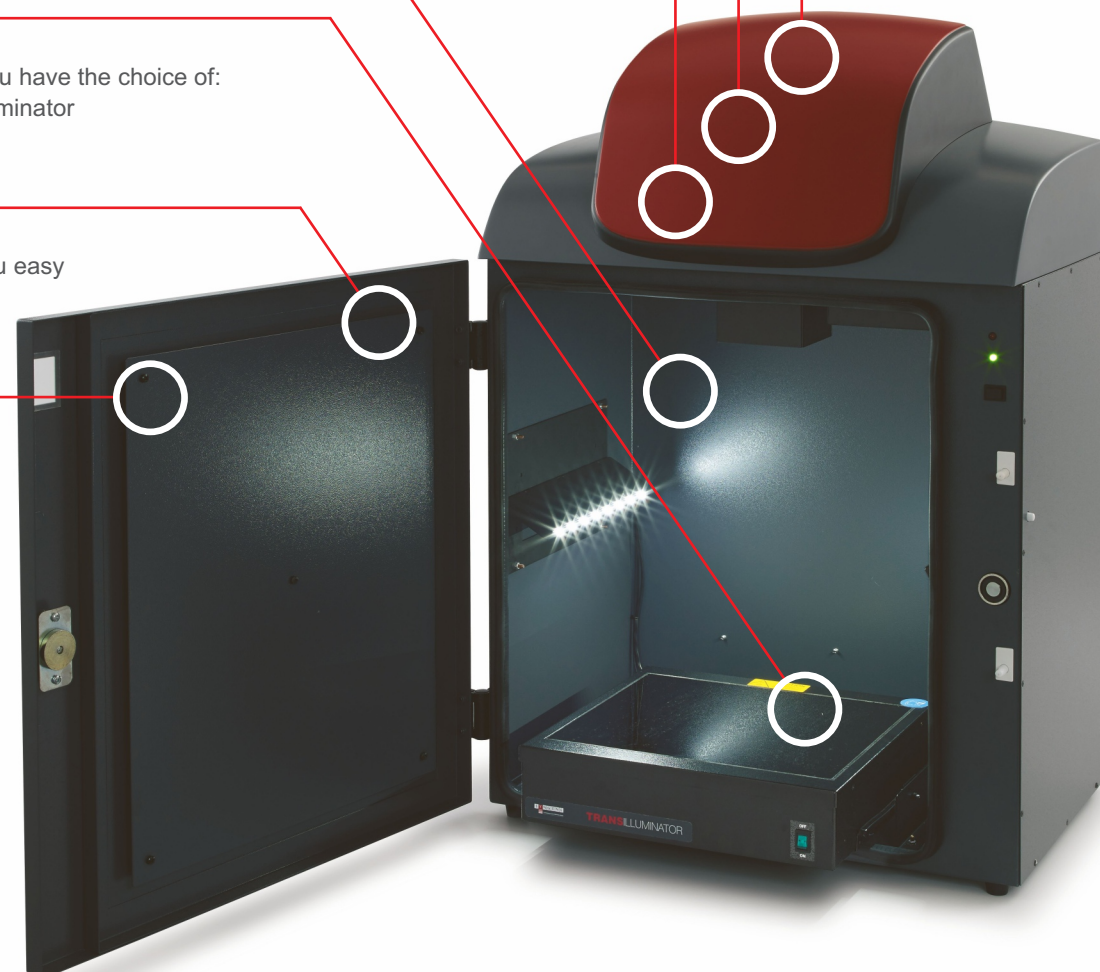
## CHOICE OF CONTROL

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.



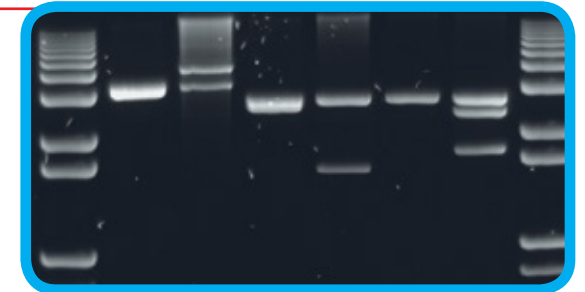
## TOTAL SUPPORT

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.



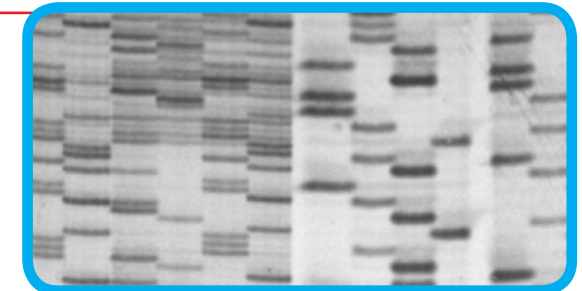
## BLUE LIGHT

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.



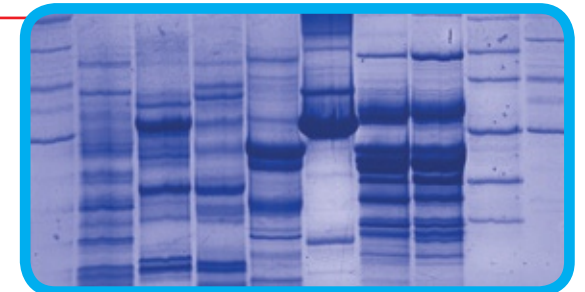
## AUTORADS

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.



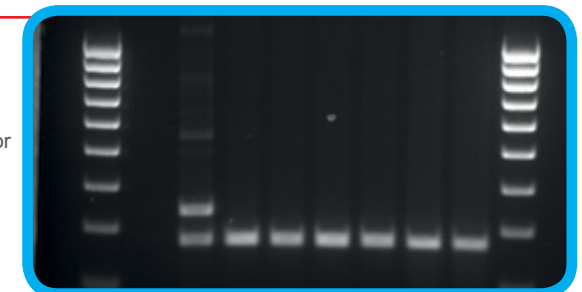
## VISIBLE LIGHT

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.



Fisher Scientific Product code	Syngene Product Code	Description	
01257160	G:BOX-F3-LFB	5MP 12/16bit system with motor driven zoom f1.2 lens with feedback. 8-48mm & 7 position motor driven filter wheel and UV filter. Top darkroom cover. Max image size 32.5 x 24.1cm. Includes epi LED white lights. With GeneSys software & unlimited copies of GeneTools. No transilluminator or white light converter supplied. Please select from list below. PC required (not included)	Not voltage dependant
01257250	GX-2020M-A	Transilluminator (20x20cm; 302nm) 115V, 60Hz + runners	Mediumwave - with runners 6 tubes
01257261	GX-2530M-A	Transilluminator (25x30cm; 302nm) 115V,650Hz + runners	Mediumwave - with runners 8 tubes
01257262	GX-2530M-E	Transilluminator (25x30cm; 302nm) 230V,50Hz + runners	Mediumwave - with runners 6 tubes, not available for Canada
01257257	GX-2020LM-A	Transilluminator (20x20cm; 302/365nm) 115V, 60Hz + runners	Long / Mediumwave - with runners 5 tubes of each wavelength
01257258	GX-2020LM-E	Transilluminator (20x20cm; 302/365nm) 230V, 50Hz + runners	Long / Mediumwave - with runners 5 tubes of each wavelength, not available for Canada
01257269	GX-2530LM-A	Transilluminator (25x30cm; 302/365nm) 115V, 60Hz + runners	Long / Mediumwave - with runners 7 tubes of each wavelength
01257270	GX-2530LM-E	Transilluminator (25x30cm; 302/365nm) 230V, 50Hz + runners	Long / Mediumwave - with runners 7 tubes of each wavelength, not available for Canada
01257275	GX-VP	Viewing platform	Required if SynGene transilluminator not used.
01257274	GX-ULTRA-BRIGHT-LED	Blue LED Transilluminator, Viewing area 20x16cm + sliding tray	For use with G:BOX systems. Not voltage dependant
01257180	CONVERTBLUE-2530	UV to Blue light converter, Size 25x30cm suitable for DNA safe dyes	
01257271	GX-CONVERT5	Visible light converter, Size 30.5x33cm	For use with G:BOX systems
01257187	EPI-MOD-MW	2 x UV module – with 302nm tubes	2 units supplied, 1 for each side of the darkroom
01257212	FILTSP-GX	Short pass [515 -599nm] (Sw032)	For GBOX-F3
01257272	GX-NFS	Neutral field screens for UV neutral fielding (1 blue, 1 frosted).	Corrects for any uneven illumination by acquiring a "neutral-field" reference image with the same intensity illumination as the experiment. For use with Epi-UV lighting and transilluminators in G:BOX systems
01257298	P95DW	Mitsubishi Digital Thermal Printer	
01257289	K65HM	Thermal paper, Matt, 1 roll	For thermal printers
01257290	K91HG	Thermal paper, Glossy, 1 roll	For thermal printers
01257294	SWT8	Shortwave tube, 8W, 254nm	

Fisher Scientific Product code	Syngene Product Code	Description
01257292	MWT8	Mediumwave, 8W, 302nm
01257291	LWT8	Longwave 8W, 365nm
01257287	IQOQ-GEL	For validation of GBOX systems. Includes validation kit. Must be ordered at same time as unit to which it refers.
01257288	IQOQPQ-GEL	For validation of GBOX systems. Includes validation kit. Must be ordered at same time as unit to which it refers
01257293	PQ-GEL	