

GEN - BOX

Bio-Imaging and Documentation Systems



- DNA Gels
- RNA Gels

- Stain Free
- Protein Gels

- Films
- Colony Plates

CE

imag**ER**TM
Fx3/FxT

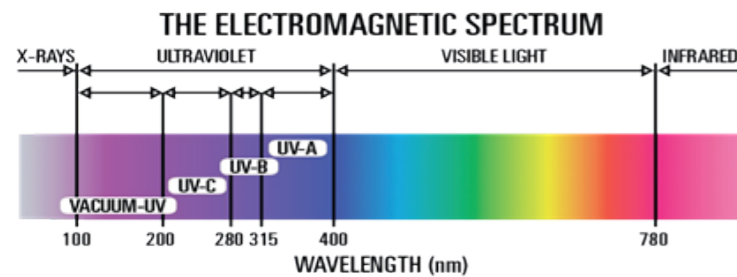
New Generation Bio-Imaging and Documentation Systems



To meet with a wide range of UV and molecular imaging applications, we offer you a high precision scientific new generation CMOS or CCD cameras with our systems. Our new generation cameras (made in Europe) reduce the electronic background, reduce noise and provide clear acquisition of target radiations even when the iris is close to closure. Thanks to the support of functional image capture software; the quality, image resolution, image workability and result efficiency of the image are taken by the camera are further increased.



Fast and easy visualizations provided with a few touches with the Image Capture software **imagER EyesTM** our software is compatible with the touch screen monitors or screens. Our software can be used in English and optional languages, to optimize the fast, integrated, manual or automatic image capture performance. Touch the screen, open your UV lights and get your image easily.



Definitely do not look at the UV light with the naked eye, use UV glasses or face shield because the ultraviolet light is invisible, but if you are exposed to it for a long time, it has the effect of blinding you, so our systems have a door system that cuts the UV in milliseconds to protect you and your skin. UV-C: (254nm) is the most dangerous UV (Ultraviolet) light with respect to UV-B: (302nm) and UV-A: (365nm). In any case, please avoid all UV wavelengths and protect yourself.



The device has 2 (two) separate on/off switches that can operate 2 different light source or equipment, so the Transilluminator or Epi light sources can be controlled separately or simultaneously, by the way the device is protected by a fuse.



UV Transilluminator with a wavelength of 302 nm is supplied as standard with the system. Besides Trans-UV; Epi-UV, Epi-Dual-UV and Epi-LED options are available for Qdots or Stain Free imaging. "Classical Dyes" and "Safe Dyes" can be imaged on the same transilluminator by using different optional converters (Trans Blue or Trans Wight Light). UV light can be When you open the door then the door security system automatically close the UV lights to protect the user, adjustable digital timer is also protect the UV lamps for long lasting. UV protection system can be temporarily disabled (manually) for gel cutting or similar applications if it needs

Ergonomic Railed Sample Tray





Functional Software

Image Capture Software

- Real Time Display
- Manual or Automatic Exposure Time
- Grid and Saturation Functions
- Gain, Contrast and Gama Adjustment
- Working with the Basic Image Formats (BMP, JPG, PNG, GIF, TIFF)
- Password Protected User Identification

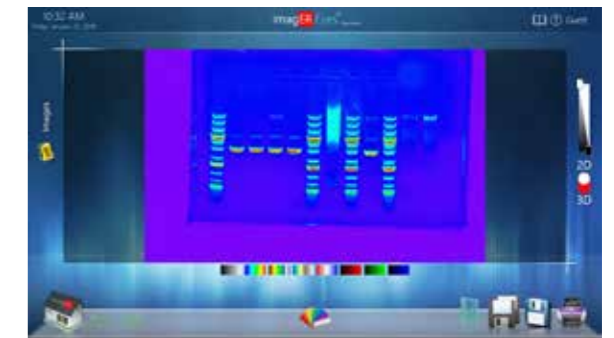
- Save Options For Papers (150dpi / 300dpi / 600dpi)
- Image Processing Filters (AVG, GAU, MED, MAX, MIN, LOG, NEG)
- Pseudo Color Image Processing
- Brightness and Contrast Adjustment
- 3D Image Display



Image Filtering Options



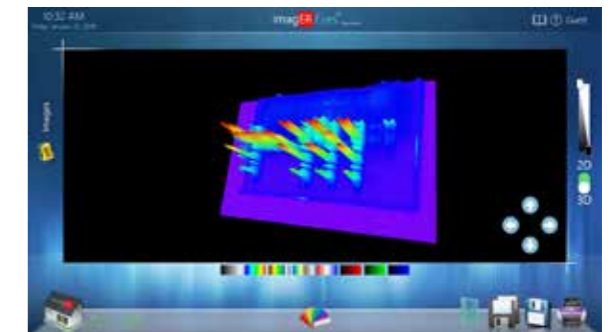
Password Protected User Security



Pseudo/False Color and RGB Transformation



Image Editing Options



3D Image View

Analysis Software (Optional)



- DNA/RNA molecular weight calculations, counting objects in the colonies, Western Blot and Dot Blot analysis, 2D Gel Analysis
- Area density calculation, gel scoring, band matching, qualitative or quantitative PCR
- Dendrogram (similarity maps) and Matching matrix (similarity matrix) drawing

- Band position, distance, area, volume, peak width, calibration standards and quality monitoring, export tools of data tables to office programs.
- Create a new record, edit or adjustment of the old data, automatic or user-defined lane (lane) and the band (band) detection, optical density and fluorescence graphics

- Automatic or manual calibration by using library to calculate the molecular weights, quantity calibration curves
- Modules for Gel, Blot and Colony Counting
- Multiplex analysis, automatic or user-defined work with DNA and RNA markers

- Molecular weight calculation; Rf, quantity determination and assessment of 'bp'
- GLP reporting (Saving all parameters, process, reporting, photos and tables together)
- Export to MS Office files, Reporting & Printing Options
- Capture Software Operation System: Windows 10 (64Bit)

Technical Specifications

GEN-BOX Fx3/FxT Series	
	
ER-FX3-A5	ER-FXT-A5
PC or Laptop Computer	Touch Screen
Optical Resolution (Camera)	5 MP
Pixel Resolution	2592 x 1944 pixel
Image Resolution	> 30 MP
Pixel Size	2,2 x 2,2 µm
Sensor Size	1/2,5 inch
Quantum Efficiency	> %62
Grey Scale	65536
Analog/Digital	8/16 Bit
Color Depth	24/32 Bit
Exposure Time	0,05 - 30 seconds
Lenses	Manuel
Filter Drawer	YES
UV Timer	YES (Adjustable: 0-999 second/minute/hour)
UV Security System	YES (When the door is opened, the UV light turns off)
UV Filter Size	20 x 20 cm (Filter of the Transilluminator)
UV Lamp Quantity x Power	6 x 8 Watts
UV Wavelength	302 nm
Emission Filter	560-600nm (Bandpass) (Tolerance: ± 10nm, Peak Transmission: ≥ %90, Surface Quality: 40/20)
Compatible Universal Dyes	EtBr, SYBR Safe [™] , SYBR Gold [™] , SYBR Green I & II [™] , SYPRO Ruby [™] , SYPRO Orange [™] , Coomassie Fluor [™] Orange, GelGreen [™] , Lumitein [™] , GelRed [™] and similar universal dyes. By using optional Blue/WL Converters; SYTO dyes, YOYO-1, mGFP5, mNeon (green), FITC, Alexa [™] 488, Cy2, HiLyte Fluor 488 and similar universal dyes.
Options	<ul style="list-style-type: none"> • Epi-UV (254nm, 302nm, 312nm or 365nm, max. 4x8W) • Epi-WHITE Light • Epi-BLUE Light • Optional Trans-UV Filter Size : 21 x 26 cm • Blue Light Converter • White Light Converter



UV-BOX Transilluminators are mainly used for display and analysis of nucleic acid bands, gels are used for DNA, RNA and Protein electrophoresis.

UV (Ultraviolet) light sources and emission filters are used for working with emission dyes such as EtBr, SYBR Safe[™], SYBR Gold[™], SYBR Green I & II[™], SYPRO Ruby[™], SYPRO Orange[™], Coomassie Fluor[™] Orange, GelGreen[™], Lumitein[™], GelRed[™] etc. In addition, by using optional WL or Blue light converters you can work with; SYTO Dyes, YOYO-1, mGFP5, mNeon (green), FITC, Alexa[™] 488, Cy2, HiLyte Fluor 488 and similar universal dyes. Transilluminator has fixed or portable UV protective cover option.

UV-BOX Transilluminators are compatible with all GEN-BOX imagER models (Fx/CFx, Fx3/FxT). Bio imaging systems automatically detect and operate the excitation sources & emission filters by checking the hardware table inside the software. In Fx/CFx series; dyes are listed on the screen as active or passive (no hardware available) icons, that means if you know your dye name that you use, then you can easily get your images by using one-click image acquisition.

Catalog No	UV-6L-2020	UV-6L-2126	UV-10L-2530
Wavelength (*)	302nm	302nm	302nm
Filter Size	20x20cm	21x26cm	25x30cm
Light Sources (**)	6x8W	6x8W	10x8W
UV Filter Features	Long life, high efficiency, with reflector		
Electronic Ballast	Does not flicker or flash when it's turned on		
UV Protection Shield	Fixed / Portable		
Security	User replaceable fuse, grounding		
Voltage (***)	220V/240V (50Hz)		
Dimensions (w x d x y)	311x237x80 mm	331x311x80 mm	
Weight(kg)	3,5kg		4kg
Options			
Wavelengths / Protector	254nm, 312nm and 365nm / Gel Cutting plate		
imagER-W1	White light converter		
imagER-W2	Blue light converter		





Easy gel cutting, optional UV filter protector



Safety cover blocks 99,9% of harmful UV radiation

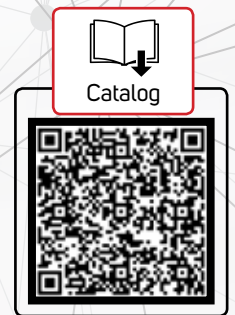
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