

GEN-BOX

Bio-Imaging and Documentation Systems



- DNA Gels
- Protein Gels
- Blue Light Gels
- Chemiluminescent Blots
- Colony Plates
- TLC Plates
- 1D Gels
- 2D Gels
- Multiplex Imaging



imager^{ER}™

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 CCD cameras with our systems. These cameras supports not only kinetic fluorescence measurement methods but also quantitative experiments.

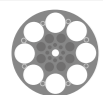
Peltier cooling of the camera sensors reduces the electronic background noise, the target radiation is easily collected with the cameras which has higher Quantum efficiency. It brings you a high performance and high precision results in your applications.



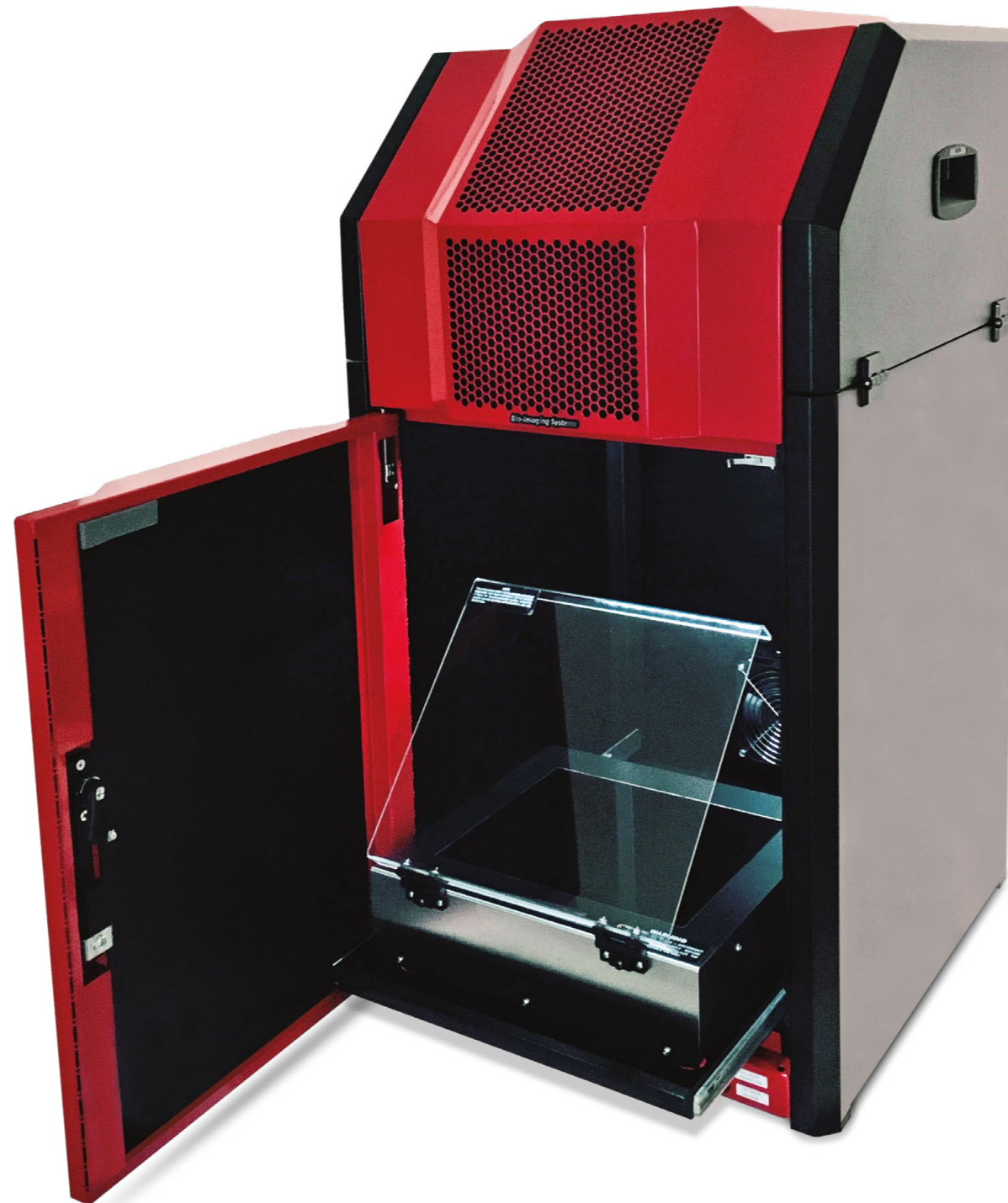
imag**ER** Eyes™ Capture Software can be used with touch screen tablet PC or notebook. You can get a high quality images and your can complete your image processing (if it needs) only with a few clicks. Entegrated touch screen options are available.



Trans-UV, Trans-Dual-UV, Epi UV and Epi-Dual-UV options are available. You can use "Classic Dyes" and "Safe Dyes" with UV (Ultra Violet) excitation sources. Smart Dark Room has the door security (automatic shut-off feature) as a standard, but this feature can be temporarily canceled for gel cutting operations.



SDR (Smart Dark Room) has 8 position filter wheel which enables an extensive range of emission filters to be able to used at the same time for different applications. Filters can be changed by the user easily, without any technical support. Manual and motorized filter wheel options are available.



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SDR (Smart Dark Room) has a unique thermostatically controlled cooling system, this feature provides to keep the inner temperature of the cabinet and sample



All our cameras are optimized for both manual and motorized zoom lenses to be able to obtain the ideal image. Three main control parameters (Zoom, Iris and Focus) can be adjusted easily. Software controlled fully motorized zoom lenses are available. Non-cooled CCD cameras and manual zoom lenses can be upgraded to Peltier-cooled CCD cameras and software controlled motorized zoom lenses.



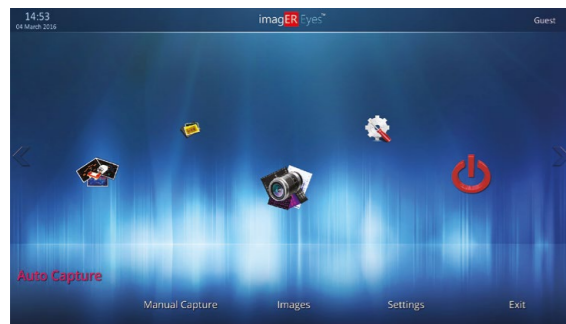
Epi-LED (white light) is standard in all our dark rooms. This lighting system is used for the viewing of visible light blots, sample positioning and when imaging colorimetric markers on Western blots. Standard Transilluminator has 6x8Watt 312nm or 302nm UV lamps for trans illumination for basic DNA imaging dyes. Standard UV filter size is 21x26cm, optional filter sizes are available.

Epi-UV, Epi-Dual-UV, Epi-LED (RGB) light sources are available for high level imaging studies. Agarose gels, western blotting membranes, colony petri dishes and similar samples can be used for imaging and documentation.

Optional Blue-LED Transilluminators (470 nm) can be used for safe dyes.



Software and hardware support is provided with our certified product experts. We provide our products and accessories at affordable prices while maintaining the highest level of quality, efficiency and expertise. Our industrial design and control systems complies with European standards. Software upgrades are free.



Main Menu

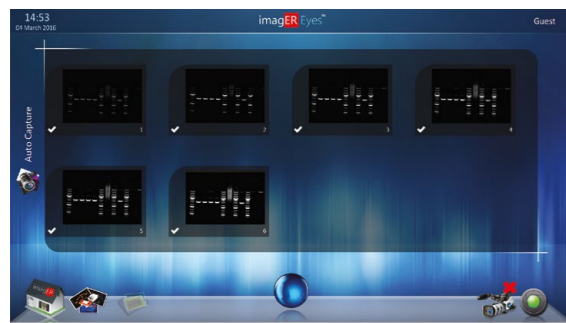
Image Capture Programme

- Real-time display
- Auto Capture Mode
- Manual Capture Mode
- Auto or Manual Adjusting Exposure Time (milliseconds, seconds, minutes)
- Gain, exposure time, gamma, contrast and refresh rate settings

- Working with the Basic Picture Formats (BMP, JPG, PNG, GIF, TIFF, etc.)
- Password protected user identification
- Digital Zoom
- Image filters (AVG, GAU, MED, MAX, MIN, LOG, NEG etc.)
- Brightness and Contrast Adjustment
- 3D Image display



Image Edit Menu



Auto Capture



Image Filtering Menu



Settings, Report Options



3D Gel Image

Analysis Program (Optional)

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

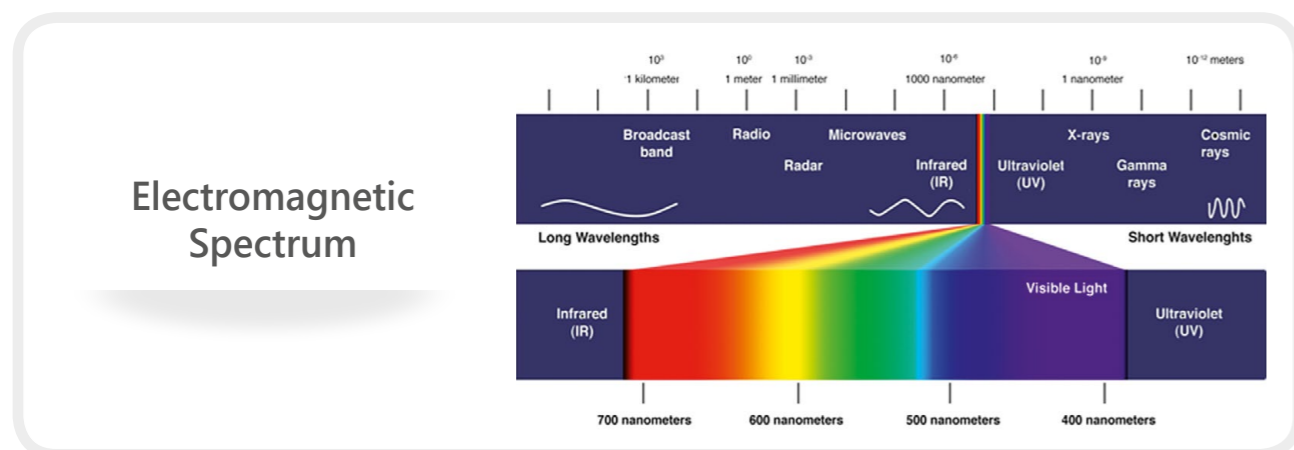
- Band position, distance, area, volume, peak width, calibration standards and quality monitoring, export tools of data tables to office programs.
- Create a new record, edit or adjustment of the old data, automatic or user-defined lane (lane) and the band (band) detection, optical density and fluorescence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

- Calibration with manual or automatic library to integrate molecular weight determination, calibration curves boots
- You can synthesize a few images and multiple user identification using cut, copy and paste functions
- 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 table as a single file)
- Report & Printing options

Dye Name	Application Area	Wavelength		Excitation Source	Emission Filter
		EX	EM		
Alexa Fluor 488	Protein	495	519	Epi Blue LED	Filter SW
Alexa Fluor 555	Protein	555	565	Epi Green LED	Filter UV
Alexa Fluor 647	Protein	650	665	Epi Red LED	Filter FRLP
Alexa Fluor 680	Protein	679	702	Epi Red LED	Filter FRLP
Alexa Fluor 750	Protein	749	775	Epi IR LED	Filter IR
Cy2	Protein	493	506	Epi Blue LED	Filter SW
Cy3	Protein	548	561	Epi Green LED	Filter UV
Cy5	Protein	645	664	Epi Red LED	Filter FRLP
DyLight 488	Protein	493	518	Epi Blue LED	Filter SW
DyLight 549	Protein	550	568	Epi Green LED	Filter UV
DyLight 649	Protein	654	673	Epi Red LED	Filter FRLP
DyLight 680	Protein	692	712	Epi Red LED	Filter IR
DyLight 800	Protein	777	794	Epi IR LED	Filter IR
ECL	Protein			No Light	No Filter
Ethidium Bromide	DNA/RNA	250-600	550-700	MW UV trans	Filter UV
Gel Green	DNA/RNA	250-600	470-600	MW UV trans / Blue LED trans	Filter UV
Gel Red	DNA/RNA	200-570	550-700	MW UV trans / Blue LED trans	Filter UV
ProQ-Diamond	Protein	555	580	MW UV trans / Epi long wave UV	Filter UV
ProQ-Emerald 300	Protein	300	550	Mid wave UV trans Epi long wave UV	Filter UV
Qdot 605	Protein	600	605	Epi long wave UV	Filter 605
Qdot 655	Protein	650	655	Epi LW UV	Filter 655
SYBR Green	DNA/RNA	290	520	MW UV trans / Blue LED trans	Filter SW / Filter UV Orange Filter
SYBR Gold	DNA/RNA	300	537	MW UV trans / Blue LED trans	Filter SW / Filter UV Orange Filter
SYPRO Orange	Protein	300	570	MW UV trans	Filter UV
SYPRO Red	Protein	300	630	MW UV trans	Filter UV
SYTO 11	DNA/RNA	508	527	MW UV trans	Filter SW
SYTO 12	DNA/RNA	499	522	MW UV trans	Filter SW
SYTO 13	DNA/RNA	488	509	MW UV trans	Filter SW
SYTO 16	DNA/RNA	488	518	MW UV trans	Filter SW
SYTO 18	DNA/RNA	490	507	MW UV trans	Filter SW
SYTO 21	DNA/RNA	494	517	MW UV trans	Filter SW

Descriptions: SW : Short Wave (254nm)
 Epi : Top Lighting MW : Mid Wave (302nm or 312nm)
 Trans: Bottom Lighting LW : Long Wave (365nm)

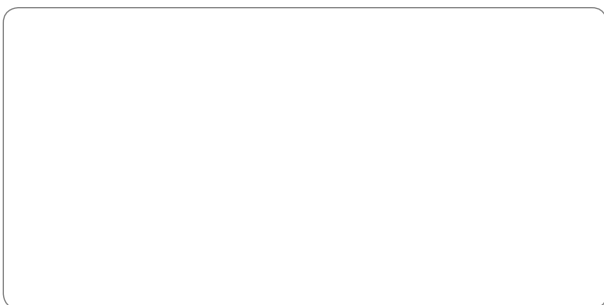


Model	imagER ^{FX}	imagER ^{CFX}
Chemiluminescence Imaging		✓
Fluorescent Imaging	✓	✓
Colorimetric / Densitometric	✓	✓
Proteomics		✓
CCD Camera Options		
	Non-Cooled Models	Peltier-Cooled Models
Standard Model	1,3 MP (1270x1030) 1,4 MP (1360x1024) 5,0 MP (2580x1944) 16 MP (4608x3456)	1,4 MP (1360x1024) 5 MP (2580x1944)
Quantum Efficiency	max %52	max %72
Gray Scale	65536 Gray Scale	65536 Gray Scale
Camera Sensor Cooling	No	Yes (-30°C)
Zoom Lens Options	8-48mm, F1.2 12.5-75mm, F1.0 8-80mm, F1.5	8-48mm, F1.2 12.5-75mm, F1.0 8-80mm, F1.5
Darkroom Specifications		
Smart Dark Room (SDR) (*)	Light source control panel, thermostatically controlled cabinet cooling system, UV safety door switch, door lock, visual warning lights, Filter Wheel, camera connection apparatus, touch screen options. Illumination modes: Trans-UV, Trans-Dual-UV, Trans Blue, Trans-White, Epi-UV, Epi-Dual-UV, Epi-White, Epi-LED (RGB), No filter.	
Filter Wheel Capacity	8-Position	8-Position
UV Filter	Standard	Option
Illumination Modes		
Trans-UV	Standard (6x8W)	Standard (6x8W)
Trans-BLUE	Option	Option
Epi-White Light	Standard	Standard
Epi-UV	Option	Option
Filter Size	21x26cm (Standard) 25x30cm	21x26cm (Standard) 25x30cm
Wavelength Options	254nm, 302nm, 312nm, 365nm	254nm, 302nm, 312nm, 365nm
Dual Trans UV	Option	Option
Epi-LED (RGB) Module	-	Option
Touch Screen PC	Option	Option
Image Capture Software	Yes	Yes
Analysis Software	Option	Option
Dimensions (LxWxH)	50 x 50 x 92 cm	50 x 50 x 92 cm
Weight	44 kg	44 kg

(*) Different options for custom design models (Light source, filters or lenses) are available



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