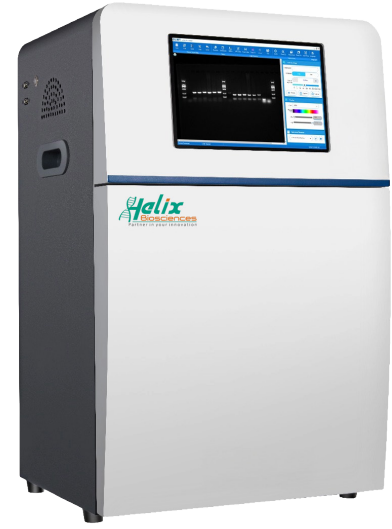


GEL DOCUMENTATION AND ANALYSIS SYSTEM



Product highlight :-

- **High resolution and high sensitivity digital camera**
16-bit high sensitivity digital camera, detecting very low-abundance DNA/RNA
- **High resolution autofocus lens**
Presenting higher visual image with higher level of detail and more quantitative information
- **Modular design with extendable capabilities**
Optional blue/white LED light transilluminator and fluorescence module according to your needs
- **Intuitive image capture and analysis software**
Helping researchers obtain gel electrophoresis images and analysis results accurately and improve experimental efficiency
- **Optional touch screen version**
Built-in 10.1-inch touch screen, no need for external computer



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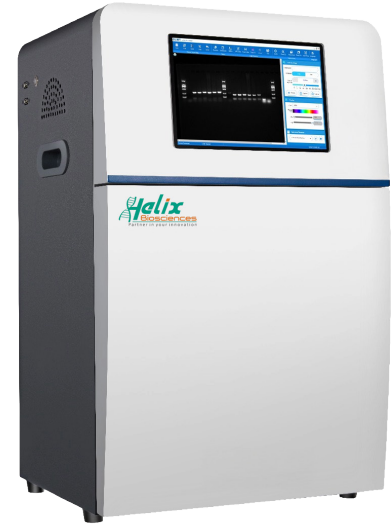
REGISTERED OFFICE :-

A-7, SOUTH WEST DELHI, NARAINA INDUSTRIAL AREA PHASE 1, NEW DELHI - 110028

MANUFACTURING :-

PLOT NO. 360, IMT INDUSTRIAL ESTATE, SECTOR 68, FARIDABAD, HARYANA - 121004

GEL DOCUMENTATION AND ANALYSIS SYSTEM



Product Introduction :-

Gel Documentation and Analysis System is mainly used for the analysis of nucleic acid and protein gel electrophoresis images. The high resolution and high sensitivity camera can ensure the excellent results even in low light conditions. Its fully automated and highly programmable compute control simplifies the operation and make it easy of use. The comprehensive gel image capture and analysis software helps researchers to accurately and efficiently obtain gel image and analysis results.

Product Application :-

- Nucleic acid detection: DNA/RNA detection of various nucleic acid dyes, such as Ethidium Bromide, Gel Signal Red, Gel Signal Green, SYBR Gold, SYBR Green, SYBR Safe, Gel Star, etc.
- Protein detection: Coomassie brilliant blue gel, silver staining gel.
- Others: Bacteria colony plate.

Product Features :-

Camera	The high-sensitivity and high-resolution digital camera makes the imaging clear, low noise, and high dynamic range. It can identify very close bands and bands with very weak fluorescence intensity.
Lens	High resolution zoom lens with fast autofocus function, providing very clear image details. Automatic control of the camera, lens and lighting for an unparalleled ease of use.



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GEL DOCUMENTATION AND ANALYSIS SYSTEM



Product Features :-

UV transilluminator	302nm LED light source, shadowless design, eliminates interference from lamp shadows, offers higher uniformity, with a light source lifespan of >30,000 hours. UV transmission area: 21cm * 26cm.
Blue light sample tray	470nm LED light source, used for DNA/RNA gel detection under blue light. Blue light transmission area of 21cm*26cm.
White light sample tray	LED light source, non-UV white light conversion plate, used for Coomassie and silver-stained protein gels. White light illumination area of 21cm*26cm.
Fluorescence module	8-position motorized filter wheel with multiple wave-length filters for multicolor fluorescence imaging.
Operation mode	Seamless switching between touch screen / external computer, catering to the diverse needs of different users.

Image Capture and Analysis Software :-

Image Capture and Analysis Software offers image acquisition, analysis, and audit trail functions. It integrates camera control, light source adjustment, and lens settings, supporting nucleic acid and protein gel imaging. The software also includes a multi-level account management system for user control.



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GEL DOCUMENTATION AND ANALYSIS SYSTEM

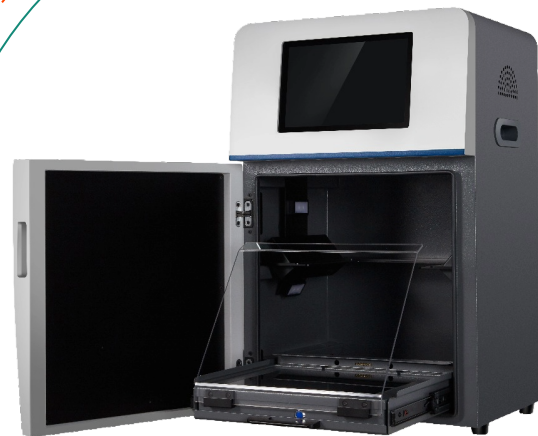


Image Capture :-

1. Auto-focus and real-time preview function.
2. Auto / manual shooting mode.
3. Auto-saving the original image.
4. Exposure mode: Ultra-high resolution or ultra-high sensitivity.
5. Image rotation, crop, reverse color, add false color and other image optimization processing.

Image Analysis :-

- Automatically recognize lanes and strips, add, remove, and resize lanes.
- Automatically calculate the optical density integral, percentage, molecular weight, isoelectric point, concentration, migration distance, relative mobility and other values of each strip in the lane, providing accurate quantitative analysis of nucleic acids and proteins.
- Automatically subtract the background to get accurate and optimized image analysis data.
- The analysis results can be exported in Excel file.

Audit Trail :-

The software provides multi-level account rights management functions, electronic signature function and log query function for easy management of user accounts and data security. The PDF report can be output with account information, image original information and electronic signature.



GEL DOCUMENTATION AND ANALYSIS SYSTEM



Specification :-

Parameter	HBS-2250	HBS-2250 Touch
Camera	6.3 megapixel, 3072*2048	6.3 megapixel, 3072*2048
Grayscale	16 bit (65536 levels)	
Binning	1*1, 2*2, 3*3, 4*4	
Lens	High resolution auto-focus lens	
Touch-screen	/	Built-in 10.1-inch touch screen
Maximum image area	19.5cm*30cm	19.5cm*30cm
UV transilluminator (Standard)	For nucleic acid gel imaging, 302nm, 254nm, 365nm are optional, transmission area 21cm*26cm	
Blue light sample tray (Optional)	For imaging nucleic acid gel labeled with nucleic acid dye suitable for blue light excitation, wavelength 470nm transmission area 21cm*26cm	
White light sample tray (Optional)	For protein gel imaging such as coomassie brilliant blue gel, silver staining gel etc, transmission area 21cm *26cm	



GEL DOCUMENTATION AND ANALYSIS SYSTEM



Specification :-

Parameter	HBS-2250	HBS-2250 Touch
Epi fluorescent light source (Optional)	For fluorescent samples imaging Monochromatic LED light source, up to 5 sets loaded at the same time. Wavelength: 365nm, 470nm, 530nm, 630nm, 660nm, 730nm	
Filters (Optional)	Wavelength: 460nm, 525nm, 585nm, 690nm, 715nm 810nm are optional	
Software	Image Capture and Analysis Software	
Operating condition	Operating temperature: 15°C-30°C, operating humidity: 20%-70%	
Storage condition	Storage temperature: 5°C-40°C, storage humidity: 10%-80%	
Interface	USB *2	USB *2
Input voltage	220V AC, 50/60Hz	
Power	60W	80W
Dimension	435mm*395mm*700mm(W*D*H)	

