BIOSPECTRIX PVT LTD

Imaging System



Chemiluminescence Imager

Multifunctional Imager

Gel Documentation

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PREMIUM SERIES



Chemi Imager



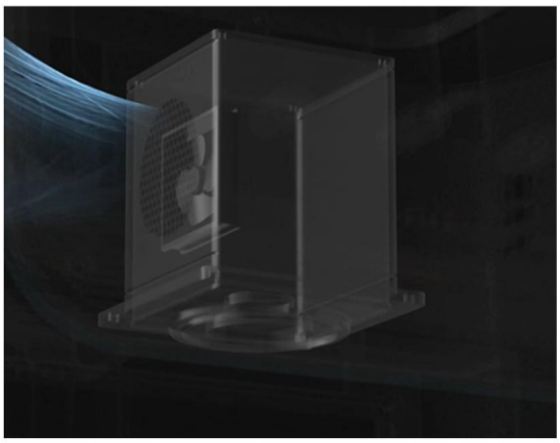
Gel Doc System

Features

- Sensitive Cooled Digital Camera
- Combination door design with internal drawer structure enables quick sample access and removal, featuring one-handed operation.



Door design with internal drawer



Sensitive Cooled Digital Camera

PREMIUM NEW

Mini Chemi Imager



Chemi Imager



Gel Doc System



Introduction

Since chemiluminescence technology has been widely used in molecular biology experiments, the requirements for imaging systems are getting higher and higher. Our Mini Chemi Imager adopts high sensitivity cooling camera and provides high resolution imaging performance. It is a cost-effective imaging system in the embedded market.

Features

- Small and compact
- High sensitivity cooling camera
- Fast preview and imaging acquisition
- 12.1 inch high-definition touch screen
- Easy to operate

Parameters

Model		BSC-Imager 900(P)	BSC-Imager 600(P)
Cooled Digital Camera	Type	Cooled back-illuminated CMOS	Cooled CCD
	Resolution	9.0 Megapixels (900P)	6 Megapixels (600P)
	Pixel Size	3.76 × 3.76 µm (900P)	4.54 × 4.54 µm (600P)
	Temperature	-30 degree regulated	
	Dynamic Range	4.8OD	
	Pixel Density	16 bit (65536 Grey scales)	
Lens	Fixed Lens	F0.95 as standard (optional F0.8)	
Industrial Computer		Industrial computer, 10.1 Inch Touch Screen, Intel processor, 128GB Solid State Drive Note: C-Imager 910/600 P+ with a computer; C-Imager 910/600 without computer	
Fluorescent Module	Optional	Epi-UV, RGB and NIR available	
Software	Capture	Capture Software	
	Analysis	Analysis Analysis Software	

PREMIUM NEW

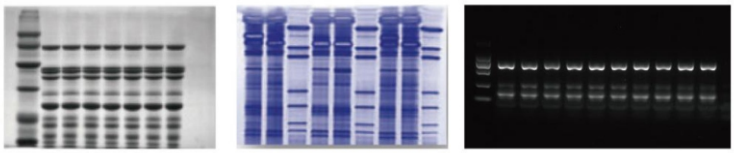
Gel Doc System



Chemi Imager



Gel Doc System



Introduction

Smart, Compact and saving the space. Optional removable industrial compute provides high feasibility, running speed and avoids the after sales possibilities of the embedded PADs.

Features

- Smart and compact
- User friendly Interface
- Focus on DNA/RNA and protein gels
- Unlimited software users

Standard Parameters

Model		BSG-Imager 630(P) BSC-Imager 600(P)
Camera	Resolution	6.3 Megapixels, 3072×2048
	Pixel Size	16bit (65536 grey scales)
	Quantum efficiency	97%
	Sensitivity	Lower than 5pg EB stained DNA
Lens	Motorized	F1.2 motorized lens
Sample tray	Gel documentation	DNA/RNA sample tray: 17×13cm, Blue LED Transmission
Protein Gels		White LED transmission: 17×13cm
Software	SHST	Capture and Analysis Software

Optional Accessories	
Industrial computer	10.1 Inch Touch Screen, Intel processor, 128GB Solid State Drive Note:G-Imager 630P + with a computer G-Imager 630 without computer

PREMIUM NEW

Multifunctional Imager

Introduction

Sensitive camera helps to get the accurate results quickly. High integration of the system provides multiple modes for different applications. Electronic lifting platform and accurate auto focus function provide the available view area for diverse sizes of the samples.

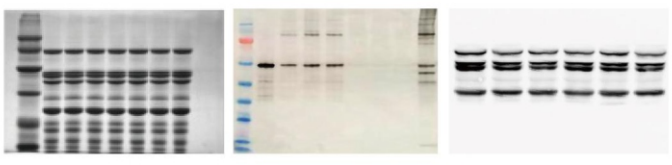
Applications: Chemi imaging, Gel doc, Protein gels, Fluorescence applications.

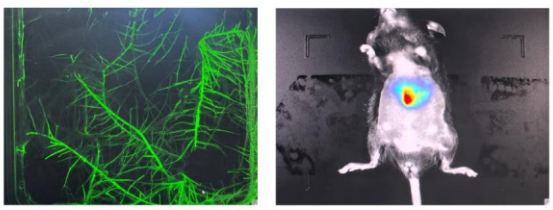


Multifunctional Imager

Features

- High sensitive cooled digital camera
- Removable industrial computer is optional
- Electronic lifting platform and accurate auto focus function
- Multiple modes for diverse applications• Unlimited software users







Multifunctional Imager

Standard parameters

Model		BSM-Imager 900(P)	BSM-Imager 600(P)
Cooled Digital Camera	Type	Cooled back-illuminated CMOS	Cooled CCD
	Resolution	9.0 Megapixels	6 Megapixels
	Pixel Size	3.76 × 3.76 μm	4.54 × 4.54 μm
	Temperature	-30 degree regulated	
	Dynamic Range	4.8OD	
	Pixel Density	16 bit (65536 Grey scales)	
Lens	Electronic Lens	F0.95 as standard (F0.8 is optional), Accurate auto focus	
Electronic sample drawer	Chemi Imaging	Electronic lifting platform and sample drawer	
	Gel Documentation	Electronic lifting platform and sample drawer	
	Protein Gels	Electronic lifting platform and sample drawer, UV LED transmission	
Filter wheel	5 position	Standard 5 position filter wheel	
Software	Capture	Capture Software	
	Analysis	Analysis Software	

Optional accessories

Fluorescent Module	Light source	365nm, 470nm, 530nm, 630nm, 660nm, 770nm etc.
	Filters	460nm, 525nm, 607nm, 715nm, 810nm etc.
	Filter wheel	Optional eight position filter wheel
Industrial computer	13.1 Inch Touch Screen, Intel processor Note: M-Imager 900/600P with a computer, M-Imager 900/600P without a computer	
Colorful marker	Colorful marker function makes the marker more obvious	

Elite Chemi Imager



Introduction

Smart, Compact and saving the space. Designed specifically for chemiluminescence. High end refrigeration camera, easy to opera

Features

- Smart and compact
- Standard for Chemiluminescence
- Auto Focus
- Unlimited software users



parameters

Model		BSCI-Elite 910	BSCI-Elite 600
Camera	Type	Cooled Back-illuminated CMOS	Cooled CCD
	Resolution	9.1 Megapixels	6 Megapixels
	Pixel Size	3.76 × 3.76 µm	4.54 × 4.54 µm
	Pixel density	16bit (65536 Grey scales)	
	Dynamic Range	4.8 OD	
	Temperature	-30 degree regulated	
Lens	Electronic Lens	F0.95 as standard (F0.8 is optional), Accurate auto focus	
	Focus	Auto focus	
Software	Capture	Capture Software	
	Analysis	Analysis	

Chemi Imager (Classical)

Features

- Focus on Chemi Imaging Application
- High sensitive cooled digital camera
- Optional Fluorescence application
- Unlimited software users



Standard parameters

Model		BSCI 910	BSCI 600
Cooled Digital Camera	Type	Cooled Back-illuminated CMOS	Cooled CCD
	Resolution	9.1 Megapixels	6 Megapixels
	Pixel Size	3.76 × 3.76 µm	4.54 × 4.54 µm
	Pixel Density	16 bit (65536 Grey scales)	
	Dynamic Range	4.8OD	
	Temperature	-30°C regulated	
Lens	Electronic Lens	F0.95 as standard (F0.8 optional), Accurate auto focus	
	Focus	Auto focus	
Sample tray	4 layers chemiluminescence sample tray		
	Protein Gels	Electronic lifting platform and sample drawer, UV LED transmission	
Software	Capture	Capture Software	
	Analysis	Analysis Software	

Optional accessories

Fluorescent Module	Light source	365nm, 470nm, 530nm, 630nm, 660nm, 770nm etc.
	Filters	Auto focus
	Filter wheel	Optional eight position filter wheel

Multifunctional Imager (Classical)



Features

- Standard for Chemiluminescence, Gel doc & Protein Gels
- Cooled sensitive digital camera
- Module design
- Optional Fluorescent Application

Parameters (Standard and Optional)

Model		BSMI 910	BSMI 600
Cooled Digital Camera	Type	Cooled Back-illuminated CMOS	Cooled CCD
	Resolution	9.1 Megapixels	6 Megapixels
	Pixel Size	3.76 × 3.76 µm	4.54 × 4.54 µm
	Temperature	-30°C regulated	
	Dynamic Range	4.8OD	
	Pixel Density	16 bit (65536 Grey scales)	
Lens	Electronic Lens	F0.95 as standard (F0.8 optional), Accurate auto focus	
Sample	Chemi Imaging	4 layers manual sample tray	
	Gel Documentation	4 layers chemiluminescence sample tray	
	Protein Gels	White LED transmission (Area 21×26 fixed)	
	Optional Fluorescent Module	Epi-UV, RGB and NIR fluorescent module as optional	
Filter Wheel	5 Position	tandard 5 position filter wheel (8 position optional)	
Software	Capture	Capture Software	
	Analysis	Analysis Software	

Gel Doc System (Classical)

Features

- Up to 20 Megapixels
- Auto Focus
- Real White LED transmission
- Numeric Focus and Aperture



Specification

Model		BSGI 500	BSGI 2000
Digital Camera	Resolution	5 Megapixels, 2592 × 1944	20 Megapixels, 4800 × 4440
	Dynamic Range	4.8OD	
	Pixel Density	16 bit (65536 Grey scales)	
Lens	Motorized Lens	F1.2 Motorized Lens	
	Resolution	20 Megapixels	
	Control	Numeric Focus controlled via Software	
Light Source	UV Transmission	302 nm as standard, Image Area: 21 × 26 cm (Optional 254 nm, 365 nm)	
	White LED Transmission	Real white LED transmission, Image Area: 19 × 26 cm	
	Optional Blue LED Transmission	Optional Blue LED transmission, Image Area: 19 × 26 cm	
Filter System	Filter	Standard filter for gel doc application	
	Optional Fluorescent Module	Epi-UV, RGB and NIR fluorescent module as optional	
Software	Capture	Capture Software	
	Analysis	Analysis Software	

Gel Doc System

Features

- Application range: Gel documentation, Protein gel.
- Automatic focusing, the software realizes the automatic focusing of samples by algorithm, avoiding the error of human judgment.
- The cover trays and filter system are available for the dyes such as EtBr, Gel Red,
- Gold view, SYBR® Gold, SYBR® Green, Gel green etc.

Image acquisition software and Image analysis software for unlimited users.



Parameters (Standard and Optional)

Model		BSGI-500P (+)
Digital Camera	Resolution	5 Megapixels, 2592 × 1944
	Pixel Density	16bit (65536 Grey scales)
	Quantum Efficiency	75%
	Readout Noise	5.1e- RMS
	SNR	70.1 dB
Lens	Motorized	3.1F1.2 motorized lens
	Gel Documentation	DNA/RNA UV transmission: Peak wavelength 302 nm, Area 21 cm × 26 cm
	Protein Gels	White LED plate: Area 19 cm × 26 cm
Software	Capture	Capture Software

Optional accessories

Industrial Computer	10.1 Inch Touch Screen Intel processor 128GB Solid State Drive Note: GI-500P+ with a computer, GI-500P without computer
Blue LED Plate	Peak wavelength: 470 nm Area: 19 cm × 26 cm

Capture / Analysis Software

Capture

- Runs without the software encryption devices, so as to avoid the inability of experiments due to the loss or damage of encryption devices.
- Automatic exposure: The system automatically recognizes the sample intensity, automatically sets the optimal single exposure time and obtains a single image without the need for manual settings.
- Multilingual interface, real-time image acquisition function, used for acquisition of nucleic acid, protein electrophoresis gel images and chemiluminescence images, GLP function, recording image generation time, shooting parameters and other information.
- Binning modes such as 1×1, 2×2, 3×3, 4×4 increase sensitivity of the system, so as to capture the weak bands.
- Automatic adjustment of grayscale, without manual adjustment of display parameters, can automatically present effective signals in the image perfectly.
- Real-time temperature display of the cooled CCD camera, so as to ensure the sample image acquisition under optimal condition of the camera.
- Multi frame function provides four accumulation modes (time accumulation, grayscales accumulation, grayscales series and timeseries).
- Overlay the Marker and Sample after acquisition, avoid manual stacking.
- Multiple pseudo colors display bright bands in different colors, and make it easy to view the strength and weakness of the sample.
- Database management of sample images to view information on sample images captured at any time in the past.
- Automatic exposure function, the automatic exposure algorithm designed with a large number of sample pictures as samples, to calculate the accurate exposure time.

Analysis

- Runs without the software encryption devices, unlimited software users.
- Automatic molecular weight calculation, band concentration calculation, relative content percentage calculation and density calculation.
- Support various image processing functions such as rotation, cropping, and so on.
- Convenient image navigation and browse, adjust the window width and level, and achieve the best image display effect.
- Optical density calculations on designated areas, suitable for protein quantitative analysis.
- Remove background mode to obtain optimized accurate results of analysis.
- The analysis results can be output to an Excel file based on the selection range.

BIOSPECTRIX PVT LTD



Water Purification System
Freeze Dryer/Lyophilizer
Biosafety Cabinet/Laminar Flow

Biofermentation Solution
Shaking Incubator/Shaker
Cold Storage Solution

Glassware Washer
Autoclave
Climate Chamber

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