



***CHEMILUMINESCENCE IMAGING SYSTEM  
LCIS-A23***

# Chemiluminescence Imaging System LCIS-A23

Chemiluminescence Imaging System LCIS-A23 is a new generation, an integrated device with 10.1-inch touch screen display, for used for imaging Chemiluminescence Gel with exceptionally high quantum efficiency CCD Camera for greater sensitivity and dynamic range. It offers a  $12.49 \times 9.99$  mm CCD Sensor Size, with 6.05 MP resolution, F0.95 motorized lens, and  $-30^{\circ}\text{C}$  cooling temperature. The 16-bit (65536 Grey Scales) CCD camera reduces the background noise during a long exposure time. The device can detect far weaker signals, offers higher sensitivity and a wider linear range. The device configuration offered as documentation of RNA, DNA, Protein, and Chemiluminescence imaging system.

## **FEATURES**

- 10.1-inch touch screen display with user-friendly operation mode
- $\geq 75\%$  High Quantum efficiency of the CCD camera
- CCD Sensor Size offered is  $12.49 \times 9.99$  mm, with a 6.05 MP resolution
- Offers convenient image navigation and browsing
- Optional attachment of different fluorescent light sources and filters
- Automatic pixel binning technology
- Marker image capture and composition with objective bands
- Small footprint - takes up minimal bench space
- Configured for maximum sensitivity to ensure even the faintest band on a blot can be captured
- Optional full configuration system Analysis System (DNA, RNA, Protein, Chemiluminescence, Fluorescence)

## **CHEMILUMINESCENCE IMAGE SYSTEM SOFTWARE**

- High precise automatic exposure and automatic recognition of the gel bands
- Offers one touch image acquisition and save
- Marker image capture and composition with objective bands
- Automatic access of capture parameters and calculation of the density and the peak value of each band
- Convenient image navigation and browsing
- It adopts image rotation, cropping and counter color processing
- Advanced pixel binning technology
- Optional save of analysis results as excels files
- Calculation of the optical density for the quantitative analysis
- It offers optimization of the visual effects by wiping background mode

## APPLICATIONS

Chemiluminescence Imaging System used in genetic engineering, biotechnology, molecular biology for obtaining high-quality images of DNA/RNA bands, also for protein detection, ELISA plate reading, and Chemiluminescence analysis.

## SPECIFICATION

<b>Model</b>	<b>LCIS-A23</b>
CCD Sensor Size	12.49 × 9.99 mm
Resolution	6.05 Megapixels, 2750 × 2200
Pixel Density	16bit (65536 Grey Scales)
Pixel Size	4.54 × 4.54 μm
Lens	F0.95 motorized lens
Light Source	LED Epi-white light × 2
	UV-Trans illuminator (302 nm )
	White-LED Trans illuminator
Display	10.1 inch touch Screen Display
Quantum efficiency	≥ 75 %
Readout noise	< 5.5e- RMS
Dark current	0.0003 e/p/s
Dynamic range	4 order of magnitude
Standard Filter	590 nm filter
Filter Wheel	8 Sockets Filter Wheel
Max Image Area	260 × 210 mm
Cooling Temperature	-30°C
Software	Image acquisition and analysis software
Dimension	560 × 480 × 780 mm + 380 × 350 × 490 mm
Gross Weight	39 kg