# BioSens  Gel Documentation System

BioSens Gel Documentation System offers scientists a new system that is easy to operate with simple and intuitive software. It works obligatory with a computer under Windows operating system and the camera can be thoroughly controlled by the computer. It also allows very precise optimization of the image prior to printing or analysis. It is ideal for research environments with a large number of users and can satisfy the demanding requirements in the area of quantitative and qualitative analysis of electrophoresis gels.

**Features**

**• State of the art design**

The camera and the transilluminator tray are fully enclosed in the cabinet, but the tray can  be pulled out easily to allow visual examination of the gel and band extraction. There are several lights on the upper board to indicate the status of the system such as Power, Cabinet door, Transluminator UV, Transluminator White, Reflective UV, Reflective White. Space saving darkroom design makes it possible to work in daylight in a small space while protecting the user from UV irradiation.

**• Simple, yet versatile and sophisticated**

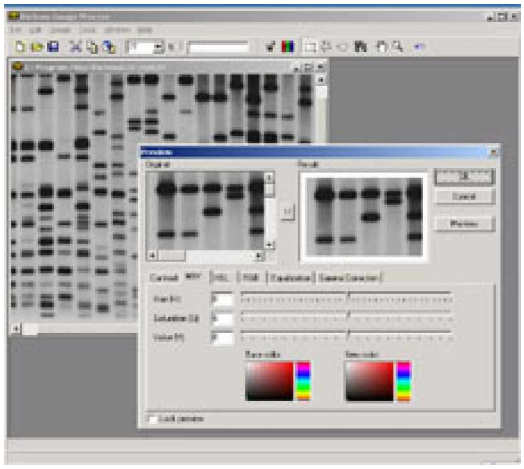
BioSens Gel Documentation System can meet the needs of routine work in research laboratories. The system is easy to use and suited to simple, rapid “capture and print” applications. But it’s also versatile and sophisticated enough to allow for multiple-user, real time imaging, analysis and quantification, etc. Special features such as contrast and brightness setting, background control, enable the ultra-precise optimization of the image.

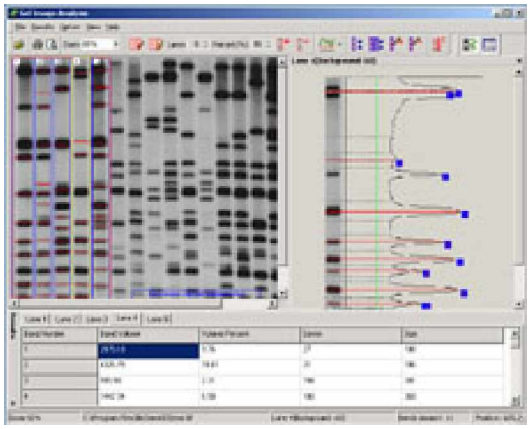
**• Easy operation**

The system and the software are simple to operate. It’s easy to adjust the camera lens settings by only a few slider bars or buttons and the zoom lens allows you to treat a large variety of gel sizes without changing lens. The pictures can be easily captured and printed out in seconds.

**• Powerful software**

Operating on a WINDOWS platform, the software that comes with BioSens system is easy to use, yet powerful enough to enable various functions and to present.credible analysis results.





**• Image capture and treatment**

Capture of image under different formats (TIFF, BitMap, JPEG, GIF…)

Saving of images on disk

Change of picture formats

Cut, copy, crop and paste functions

Positive or negative image

Rotation, vertical or horizontal mirrors, inversion

brightness and contrast adjustment, background subtraction

**•Analysis and Quantification**

Automatic identification of bands and lanes

Calculation of MW and bp

Calculation of volume, area and intensity

Colony counting

| Model | BioSens SC 635 | BioSens SC710/750(with LCD screen) | BioSens SC 805 | BioSens SC 810 |
|---|---|---|---|---|
| Camera | Digital Camera | Monochrome CCD Camera with integration time | Cmos camera | Firewire CCD Camera |
| Resolution (pixels) | 3,648x2,736 | 768 x 582 | 1,392 x 1,040 | 1,392 x 1,040 |
| Digitization | 24 bits | 8 bits | 8 bits | 10 bits |
| Field of view | 6x8 – 20x25cm | 4x5 – 20x25cm | 4x5 – 20x25cm | 4x5 – 20x25cm |
| Zoom | Automatic | Motorised, 6 times zoom | Motorised, 6 times zoom | Motorised, 6 times zoom |
| Trans wavelength | Roll-out drawer 254 or 306 or 365nm | Roll-out drawer 254 or 306 or 365nm | Roll-out drawer 254 or 306 or 365nm | Roll-out drawer 254 or 306 or 365nm |
| Filter | 590nm | 590nm | 590nm | 590nm |
| Software | Image capture and analysis software | Image capture and analysis software | Image capture and analysis software | Image capture and analysis software |

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