

# FluoroBox

## Nucleic Acid Gel Imaging System

DNA gel

LED light

Fluorescent detection

FluoroBox is a device that images DNA electrophoresis gel and analyzes. FluoroBox Blue is optimized for the reagents, wavelength of 450nm~490nm, that is invented alternative to EtBr. It consists of LED light and dark room chamber. FluoroBox can also be used in conjunction with UV transilluminator. Compact size and simple design has satisfied user's convenience. Gel can be observed through the window at the top and gel cutting can be done conveniently through the doors at each side. Our simple program enables users to obtain results easily and simply quantify the DNA band.



Non camera model

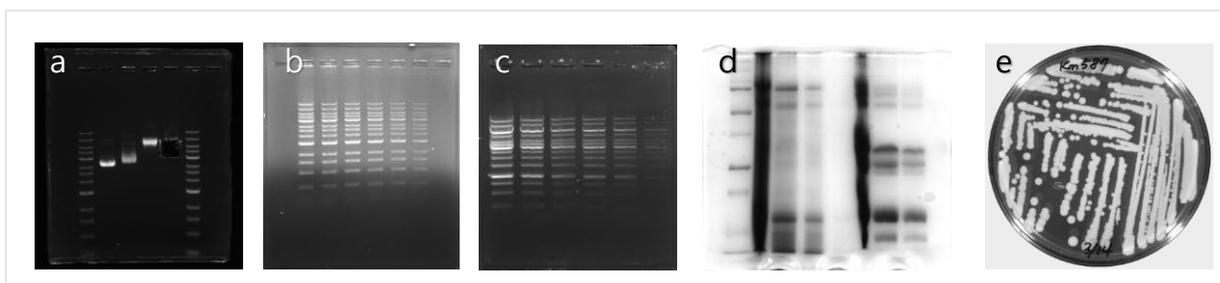
FluoroBox



Side door for gel cutting



Use with UV illuminator



a. Plasmid DNA stained with loading type EtBr alternative reagent. b. DNA marker electrophoresed on agarose gel containing a gel mixture type of EtBr replacement reagent. c. DNA marker electrophoresed on agarose gel containing EtBr. Images obtained using a UV transilluminator and FluoroBox in combination. d. PAGE gel image. White plate, white light used. e. Petri dish image. White plate, white light used.

## Specifications

|                     |   |
|---------------------|---|
| Camera              | 1/2" 1.3M 8bit CMOS, 1280 x 1024 pixels     |
| Size (W x D x H)    | 260 x 260 x 400 mm                          |
| Interface connector | Standard USB 2.0                            |
| Field of View       | 160 x 130 mm                                |
| Light source        | Blue LED                                    |
| Software            | Image capture, Set ROI: Manual or Automatic |
| Analysis            | Subtract background, measuring of intensity |

## NEOgreen

DNA staining reagent  
(EtBr alternative reagent)

NEOgreen is produced in order to substitute EtBr.

Same as the existing method, to make 100ml of Gel, 5~10ul of NEOgreen is needed. Therefore, the experimental method doesn't need to be changed. Blue light (470nm) and UV transilluminator can be used with it to observe the DNA gel



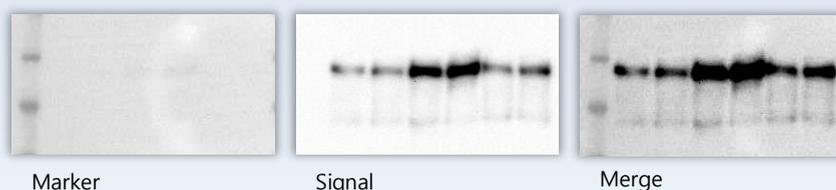
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# CheBI Chemi-luminescence Imaging System

CheBI is optimized for Western blot experiment, using the highly efficient Cooling CCD Camera. Its compact size (260 x 260 x 400mm) helps make better use of a space in the laboratory. Its exposure time can be set by the users manually. And the images can be accumulated which enable users to choose the best image. Users can select a certain Region Of Interest (ROI), measure the ROI and manage the data using Microsoft Excel.



## High-sensitive Camera

CheBI uses highly sensitive sensor with a quantum efficiency of up to 77%. Noise can be minimized by 40 °Cs cooling the sensor.

## Easy to Use

NEOimage for CheBI has an intuitive interface so that first-time users can easily learn how to use it. You can take pictures in three ways. Capture, Accumulate and Auto-accumulate. The Accumulate method acquiring images of the set exposure time and sequentially accumulating the images. Auto-accumulate acquires image accumulated by the time determined by NEOimage according to the sample situation. This function is useful when the intensity of the signal is unknown.

CheBI's compact size and simple structure make it easy to use and manage.

## Quantitation

You can quantify the signal based on area and intensity. Quantitative data can be shown in tables and can be export to csv file.

## Specifications

|                       |  |
|-----------------------|--|
| Resolution            | 6.1 Mega pixel                             |
| Camera cooling        | Ambient - 40°C                             |
| Working temperature   | 0 ~ 60°C                                   |
| Size (WxDxH)          | 260 x 260 x 400mm                          |
| Interface connector   | Standard USB 2.0                           |
| Field of View         | 220 x 180mm                                |
| Exposure type         | Manual or Accumulate                       |
| Maximum exposure time | 30 min                                     |
| Data backup           | Save the backup data at the same time      |
| Measurements          | ROI area, intensity and integrated density |
| ROI setting           | Manually or automatically                  |