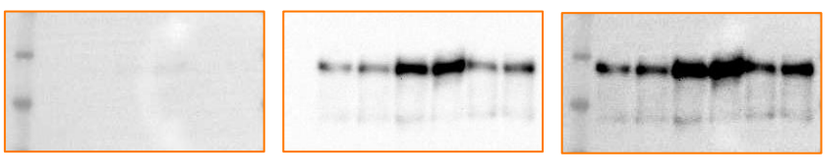
CheBI

Chemi-luminescence Imaging System



Marker Signal Merge

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.

Easy to Use

Imaging program 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 Series capture. The Accumulate method acquiring images of the set exposure time and sequentially accumulating the images. Series capture is useful when you don't know how strong the signal is in a band. It saves all images with different exposure times from 1 second to 20 minutes, allowing the user to select the best image. CheBI's compact size and simple structure make it easy to use and manage.

High-sensitive Camera

CheBI uses highly sensitive sensor with a quantum efficiency of up to 85%. Noise can be minimized by 40 ℃s cooling the sensor.

Quantitation

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

Plant Bio-luminescence Imaging

Unlike animal imaging, plant in vivo imaging faces minimal interference from internal tissues. Because plant samples are thinner, light can penetrate more easily, enabling clearer bioluminescence visualization. CheBI allows efficient acquisition and analysis of plant bioluminescence images. By defining a region of interest, you can easily measure area, intensity, and integrated density for precise quantitative analysis.

Measure Table | Measure Info

ROI #	Area (Pixel number)	Intensity	Integrated Density(...
1	174876	2657	464645532
2	131968	1996	263408128

Specification

Resolution	6.7 Mega pixel (2992 x 2244)
Camera cooling	Ambient - 40°C
Working temperature	-10 ~ 30°C
Size (WxDxH)	260 x 260 x 400mm
Interface connector	Standard USB 3.0
Field of View	145 x 108mm
Exposure type	Auto, Manual or Series
Maximum exposure time	20 min
Data backup	Save the backup data at the same time
Measurements	ROI area, intensity and integrated density
ROI setting	Manually or automatically

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