

biostep[®] presents

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New—Celvin[®]—New

The smallest camera-based chemiluminescence Western Blot system

Clever = cooled 16 bit camera + safety mechanism

Elegant = small personal system for the bench

Light intense = up to 8.3 Mpixel, up to 24 h exposure

Valuable = flexible configurations with different camera resolutions

Innovative = binning, image addition, touch-screen

New technique from **9,350.00 €** net and MADE IN GERMANY 





The newly developed **peltier-cooled 16 bit scientific grade camera** “EagleIc3e” by biostep® with **8.3 Mpixel** has highest resolution and homogeneity during the complete exposition. The cooling results in an **extremely low background**. The camera can be changed (2 up to 8.3 Mpixel), if you need higher sensitivity. The highest possible signal acquisition is ensured due to the positioning of the camera directly below the sample. The trick is that the sample lies on a glass plate.

The **advantage** of the Calvin® compared to other camera-based systems is its **compactness**. Height is just 40cm, so it can be placed anywhere but nevertheless it is extremely sensitive. The price is small, too: You can get the **Calvin® just from 8,399 €**, whereas other systems are priced at min. 15,000 €. Therefore, the Calvin® is **attractive for individual user**. You don't have to share a giant equipment with others, clean their contaminations and check for free user times in a calendar.

Even when comparing the Calvin® with the exposure of photographic films, it does well, too. The usage of **films results in permanent costs** because you can use them only once. To get optimal results, it is necessary to exposure and develop more than one film. The processing of the films needs time and chemicals and is not environment-friendly. A film-developing instrument has to be cleaned and maintained. The films have to be digitalized resulting in loss in time and possibly in accuracy.

The camera of the Calvin® acquires the entire blot permanently which is a **big advantage compared to a scanning system**. Scanning a blot means that CCD elements fixed in defined distances to each other record the image only stepwise by moving below the blot lying on a glass plate. However, luminescence decreases with time resulting in differences in the image even when using identical samples across the total blot. Samples scanned at the beginning are brighter than those scanned at the end. Another drawback of the actual scanner system is the limited exposure time of 12 minutes.

The **safety system** of the Calvin® is a huge benefit because the lid is sealed during measurement by a **magnetic mechanism, preventing unauthorized opening**.

The touch-screen is suitable for **one-hand-operating**. A saved program can be opened just before positioning the blot and started immediately afterwards. You can wear your gloves, press the start-button on the touch-screen and clean it later on. The elapsed as well as the remaining times are shown. **Exposures up to 24 hours** are possible ensuring the detection of weakest signals. Furthermore, you have the option of **adding images** and **binning**. Both methods result in signal amplification, the first means overlay of images and the second means signal addition of adjacent pixels.

If your blot contains **colourimetrically stained molecular weight markers**, you can take an image with the **dimnable white epi light** and include this region of interest in the chemiluminescent blot image for molecular weight **calibration and quantification**.

The **Calvin® is smart, small and compact**. With the dimensions of 400 x 240 x 358mm (H x W x D) it fits on every bench and it is mobile, too. It is **your personal chemiluminescence system** which is programmable and compatible to any PC via USB interface. You don't have to transport your blot across the institute and stand in line anymore.



The Celvin® is completely controlled by PC. The measurement parameters are defined in the control software and transferred via USB cable to the Celvin® so that you can start the measurement by pressing the start-button on the touch-screen. Do you need a **PC for controlling** the Celvin®? No problem, a PC or notebook is also available at biostep®.

Are you working with HRP-conjugated antibodies? We have a great offer for you:

Buy a Celvin® and get the biostep® **ready-to-use** chemiluminescence substrate **Lumixx ready** (50ml) **for free as starter kit.**

Celvin® - small but powerful!



biostep GmbH
Innere Gewerbestraße 7
09235 Burkhardtsdorf OT Meinersdorf, Germany

Phone: +49-3721/3905-0
Fax: +49-3721/3905-28
Email: info@biostep.de
Internet: www.biostep.com

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