

ZEISS Primovert HDcam in BERNER Claire Safety Cabinet

Perfect partnership to examine and evaluate living cells
at a glance



We make it visible.

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reddot design award
winner 2013

ZEISS Primovert HDcam is perfectly suited to your cell culture laboratory. You place this inverted microscope right into the safety cabinet and transfer the images to the already integrated monitor of the BERNER Claire safety cabinet. You study the morphology of living cells and evaluate their development at a glance in their protected environment.

BERNER Claire Safety Cabinet

A safety cabinet is one of the most important pieces of equipment for cell culture. Depending on its safety class it provides an aseptic work area while allowing the containment of infectious splashes or aerosols generated by many microbiological procedures.

Classification	Biosafety Level	Application
Class I	1, 2, 3	low to moderate risk biological agents
Class II	1, 2, 3	low to moderate risk biological agents
Class III	4	high risk biological agents

Figure 1

The Claire safety cabinet [Fig. 1] is a class II biological safety cabinet. Protection at the highest level, intuitive operation, low energy consumption and a detection system for air flow disruption have made these safety cabinets even more efficient and safer. The Shield Design imparts protection, simplifies usage, facilitates the operation, and is an indicator of technological progress. It is a partially enclosed workspace with open fronts, a vertical laminar air flow, so outside air is run through a filter before it gets inside, and a HEPA filter for filtering air from inside before it goes outside the cabinet. Used in microbiology labs, pharmaceutical labs, and cancer research labs, class II biological safety cabinets protect the bacteria, viruses, and carcinogens being manipulated inside the cabinet while shielding them from outside contamination.



Figure 2

A recessed light band [Fig. 2], highly visible from afar, informs through its color coding about the current operating status and gives the user a clear and highly visible warning signal of potential dangers. This effect is reinforced by the illumination of the front window lower edge. A touch display is the central interface and control unit for the user. The display can be easily read from a sitting as well as a standing position. All safety-related parameters such as airflow velocities and front screen position are displayed as large graphical images. Errors are shown clearly, and possible error corrections are suggested.



Figure 3

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The inverted cell culture microscope Primovert HDcam [Fig. 3] is designed for ultimate flexibility. Primovert enables fast, efficient investigations of unstained cells in phase contrast. As it fits straight into the BERNER Claire safety cabinets, no openings for the eyepieces are necessary. You work directly in the sterile environment and experience the safety of working with contaminated or sensitive material. Take advantage of numerous interfaces on Primovert HDcam [Fig. 4]. The microscope brings you a welcome degree of flexibility, too, with its integrated camera and the Labscope imaging app for iPad. Keep your iPad directly in the safety cabinet [Fig. 5] and control your microscopic acquisition. You can even control the microscope from a different location and discuss your images with colleagues [Fig. 6].

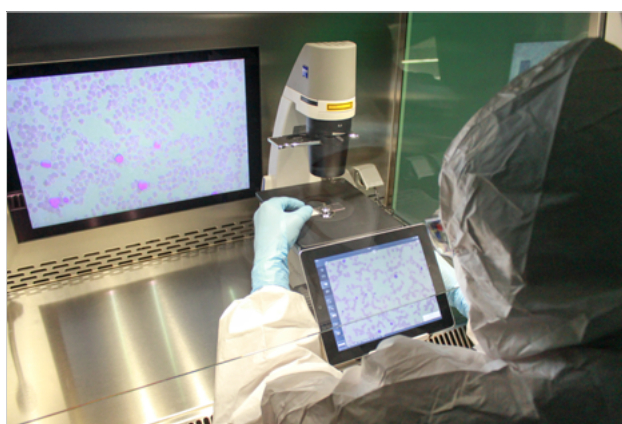


Figure 5



Figure 4

If you prefer, visualize the images on the monitor directly integrated in the safety cabinet. Thanks to the interfaces of Primovert HDcam you connect the microscope to this monitor via HDMI and transfer and display your results centrally. Cell evaluations are visualized from the distance. You document your investigations without leaving the sterile environment of your cell culture. You can snap your images by remote control, too. Primovert HDcam lets you capture microscope images, record videos, create notes and reports, and edit images. Save the files on your Windows network or do some “joined-up” thinking with colleagues via wireless devices.

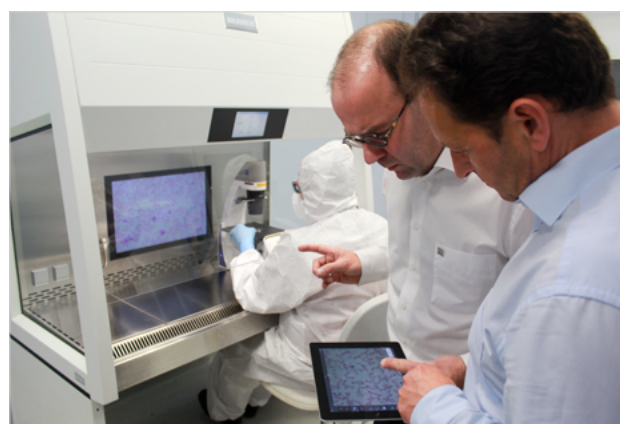


Figure 6



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