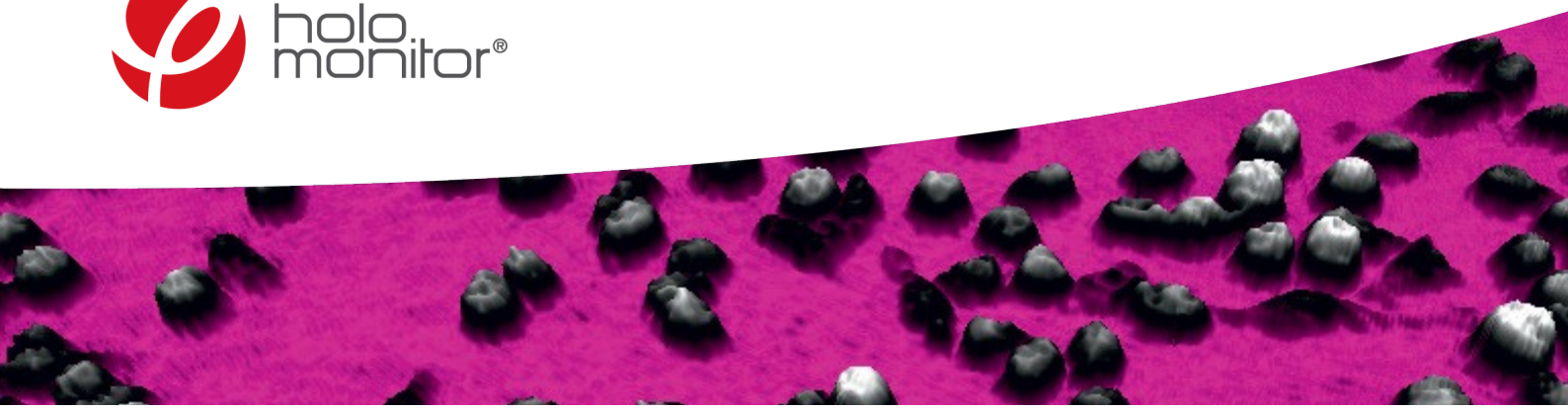
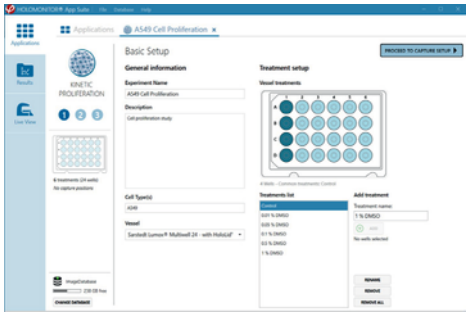


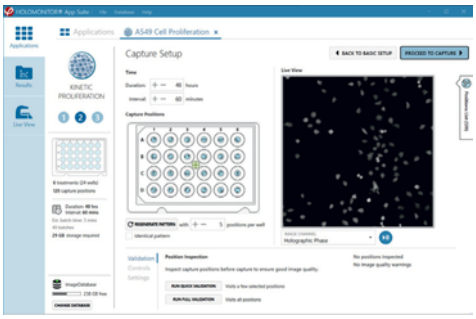
HoloMonitor®App Suite

With Focus on Cell Biological Applications

HoloMonitor® App Suite is a proprietary software for analysis of images and data generated by the HoloMonitor® M4 base unit. HoloMonitor® App Suite focuses on biological applications and enables researchers within all levels of cell biology to easily perform live-cell studies on various cellular events.

HoloMonitor® App Suite is designed for automated and detailed analysis of cell populations. The automated analysis extracts selected cellular parameters that are condensed into quantitative application-specific output parameters.



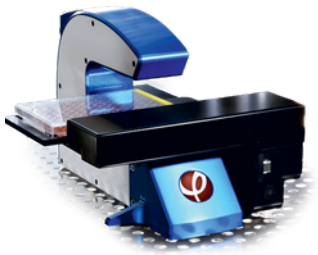


The App Suite software offers a simple workflow but still allows the user to set precise parameters for each time lapse imaging.

HOLOMONITOR SYSTEM

With HoloMonitor®, cellular behavior, responses and events caneasily and continuously be visualized and quantified over time.

Microscopy images are recorded directly in the cell culture vessel at regular time intervals, to not overlook any significant events. An incubator safe holographic microscope with a motorized stage is used to capture time-lapse holographic phase images of your cells.



Cell- and user-friendly applications

LABEL FREE

Due to label-free analysis, the sample preparation is straight- forward. Also, studies are performed without affecting the cells by phototoxicity.

FLEXIBLE

HoloMonitor is validated for most standard vessel formats and supports up to 96 parallell samples.

ASSAY PROTOCOLS

For all applications, a dedicated protocol guides the user through the biological assay - from cell preparation to results.

SIMPLE WORK-FLOW

The software has an intuitive design with simple work-flow.

Telling You the Full Story About Your Cells

AUTOMATIC IMAGE ACQUISITION

The image acquisition automatically captures images at a user-specified duration and frequency.

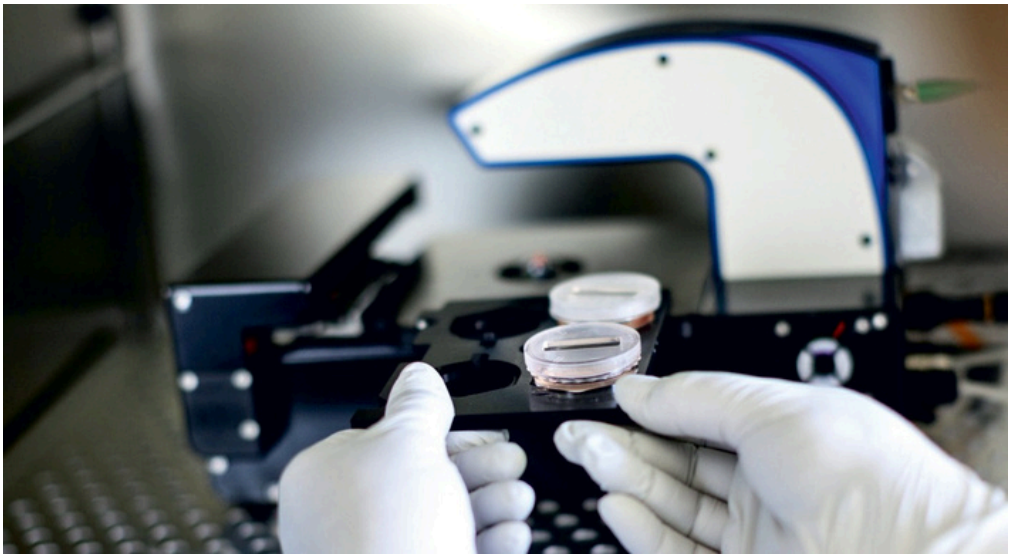
IMMEDIATE RESULT PRESENTATION

The software automatically analyzes the quantitative data from each image and automatically generates application-specific graphs and images.

IN DEPTH UNDERSTANDING

Analysis is not limited to the automatic result presentations. The software provides the opportunity to export your data to Excel for deeper understanding and flexible data presentation. All experimental data is saved in a database and can be used for later analysis of other parameters.

HoloMonitor App Suite v 4.0.2 offers five biological applications with automated result presentation. Once the experiment is set up, the cells will grow unperturbed in the incubator or hypoxia chamber. Just walk away without worry, and when returning back, the data will be archived and analyzed - ready to explore.



APP SUITE WORFKLOW

1. Choose Application

Select your biological application: cell count, cell QC, kinetic cell proliferation, kinetic cell motility or kinetic dose response.

2. Basic Setup

Choose culture vessel and experiment conditions: selected microslides, 6-well, 24-well or 96-well plates are recommended.

3. Capture Setup

Choose experiment duration and frequency of image acquisition.

Inspect images to ensure optimal image quality.

4. Capture & Analysis

The system automatically captures time-lapse image sequences. While capturing, the software analyses the images by automatic identification of individual cells and extraction of relevant output data.

5. Result Presentation

The relevant results (graphs, tables, images etc) are immedately provided to the user and can easily be exported to Excel.

FURTHER INFORMATION

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