

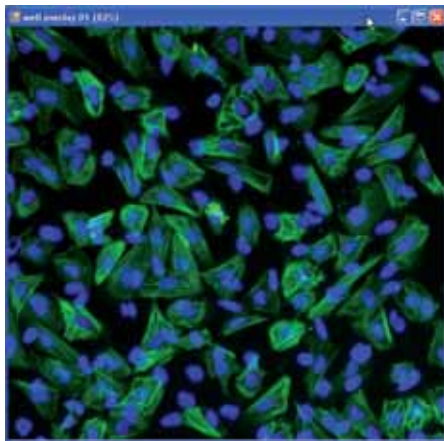
VisiScope Cell- Analyzer

Cell Based
Screening
System

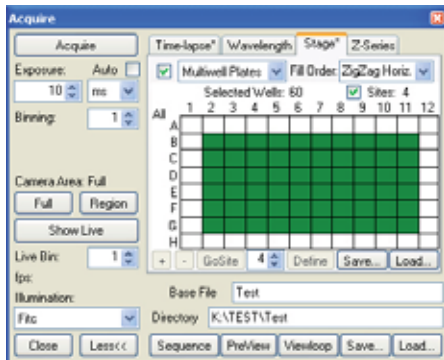
VisiScope Cell Analyzer

Multidimensional Cell Based Imaging System

The use of microscopy and fluorescence imaging in science is one of the most important technologies to analyze structure and fundamental function in cells. Genetic engineering with GFP derivates the investigation of living cells in more details about localization and temporal depending functions. For this detailed analysis a high throughput of samples with biological assays is required to get the best possible statistically accurate results.

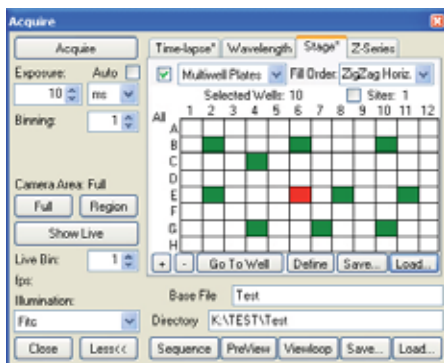


Axio Observer with motorized XYZ scanning stage and 96-well plate.



Control and Visibility

VisiScope makes intracellular metabolism visible and allows quantification of it. The VisiView® software controls all motorized microscope components and synchronizes image acquisition. The analyzed images and measurement header information can be stored in database format.



VisiView® Screening option

On-line multi color imaging with automatic color detection and overlay of up to seven fluorescent channels per well gives the user a high flexibility in cellular research. The VisiView® software helps with easy device control and intuitive handling of the software. The macro interpreter language covers all functions for one-click automation of processes / experiments.

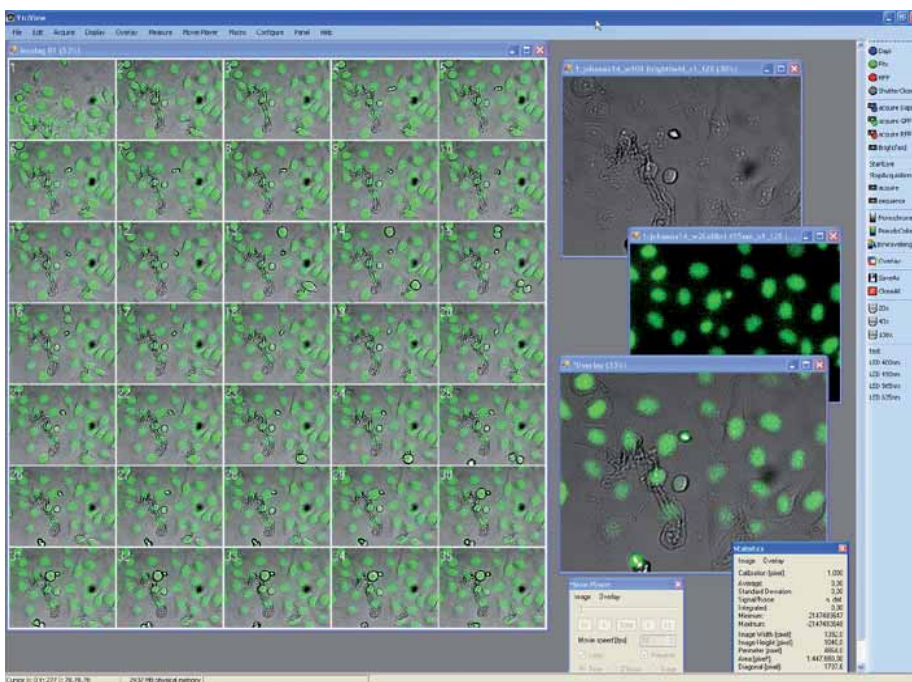
VisiView screening dialog with selection for scanned wells.

VisiScope Cell Analyzer

The VisiScope Cell Analyzer is designed as a multidimensional cell based imaging system. The cells are cultivated in multiwell culture plates e.g. 96, 384 or 1536 well format. The cells are labeled with different fluorochromes for each cell component. With addition of e.g. inhibitory substances, the expression of the labeled components will be increased or decreased.

VisiScope Cell-Analyzer

Cell Based Screening System



VisiView screening software module for multi-well scanning.

System Components

- » High-end microscope with excellent optical and motorized components
- » Objectives 5x; 10x; 20x; 40x (optional DIC and Phase)
- » High resolution digital scientific camera with best sensitivity and cooling
- » Motorized XY or XYZ-stage with highest positioning accuracy
- » High speed filter wheel system with up to 10 filter positions
- » Powerful PC computer system
- » VisiView® imaging software for full motorized control of all components
- » Optional: hardware autofocus system
- » Optional: closed incubation system



Multiwell culture plates.



Multiwell insert M96-S.



Multiwell Insert M6-S.