

See all your cells in action

High-content screening station for life sciences



The scan^R screening station is the perfect solution for microscope based quantitative cell analysis. Designed for fully automated image acquisition and data analysis of biological samples, scan^R can handle many different formats, including multi-well plates, slides or custom-built arrays. Its unmatched flexibility and open design make it equally adept at routine and advanced applications, and facilitate the combination with an advanced imaging station in a single setup. scan^R provides powerful image analysis and advanced data evaluation, enabling it to tackle a broad range of standard and tailored assays.

WORKFLOW AND APPLICATIONS

Fully automated image acquisition and processing for millions of cells

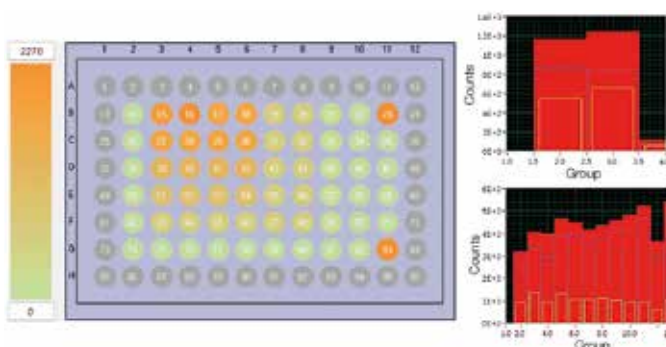
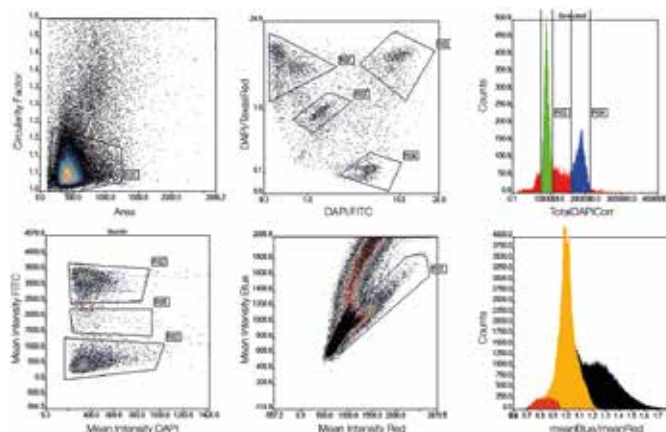
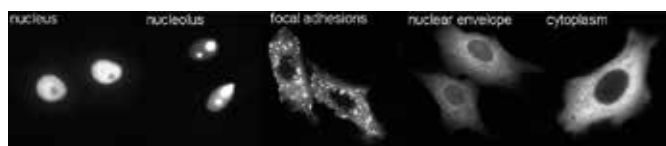
scan^R features the latest Olympus high-end inverted microscope platform IX83 and an intuitive user interface for rapid, reliable image acquisition and flexible image processing.

Live and interactive data analysis

scan^R excels in data analysis and evaluation — either offline or simply in parallel with the data acquisition. Powerful cytometry data analysis is used to suit the specific demands pertaining to the analysis of high numbers of cells. Together with the ubiquitous bidirectional links from all data points and time curves to cell galleries and image data, it allows understanding the samples from the single cell level up to populations of millions of cells at a single glance and setting up reliable quantitative assays within minutes.

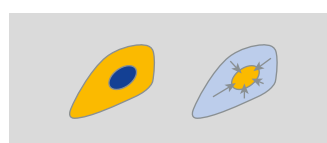
Visual and quantitative result output

scan^R offers all the result visualisation and export options needed to keep track of the sample results from gated population counting, parameter quantification or kinetic data by means of various tables, bar charts and well plate heat maps.

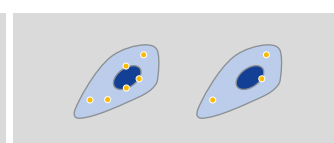


Typical applications:

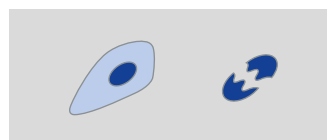
- Cell counting
- Gene expression
- Intracellular transport
- Translocation
- Cell proliferation
- Promyelocytic leukaemia (PML) body assay
- Bacterial infection assay
- Cell cycle analysis
- Protein localisation and co-localisation
- Live cell assays including kinetic analysis
- Gating on kinetic response curves
- Multi-coloured assays
- Rare event analysis
- Automated FISH analysis
- Fluorescence analysis in tissue sections
- Cell array screens
- Micronuclei and comet assay
- And more...



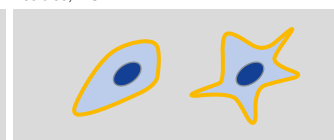
(Trans-)Location/Transport



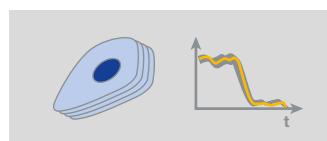
(Trans-)Location/Transport
Endosomes, PML Bodies, Nuclear Foci, Vesicles, FISH ...



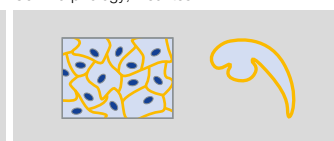
Cell Cycle



Changes in Shape and Size
Cell morphology, Neurites



Dynamic Processes
(patent pending Analysis)
Mitosis, Calcium Kinetics, Cell motility



Tissue and whole-organism
Zebrafish, C. elegans, ...

www.olympus-europa.com/microscopy

The manufacturer reserves the right to make technical changes without prior notice.

OLYMPUS

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