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KineticScan® HCS Reader - Version 2.2.0

The most flexible HCS reader on the market

The KineticScan HCS reader is the optimal solution for the investigator who wants to automate analysis of cellular and intracellular spatial parameters, over time, in a population of living cells. Combined with the Cellomics® BioApplication Suite and HCS Informatics tools, the KineticScan HCS Reader is the preferred analysis tool for all high content analyses.

The combination of a fully functional on-board pipetting system in either an eight or one channel configuration, along with a live cell chamber that controls temperature, CO_2, and adds supplemental humidity, the KineticScan permits analysis of cells over days rather than hours. The KineticScan HCS Reader allows more in-depth analysis from the start without having to purchase costly hardware options.

The KineticScan, combined with Cellomics V2 BioApplications, will increase productivity, help you perform more in-depth analyses and significantly reduce time to discovery. Benefits of the KineticScan platform include:

- Easy-to-use software on both the instrument and vHCS™ Discovery Toolboxes
- Quick image acquisition times
- Fast and efficient focusing using both software and laser based technology
- High resolution cooled CCD camera
- Flexible BioApplication algorithms
- Quick pipette to first read capability
- Motility and kinetic feature calculation at the cell and well level

Highlights of the KineticScan HCS Reader

On-Board Environmental Control

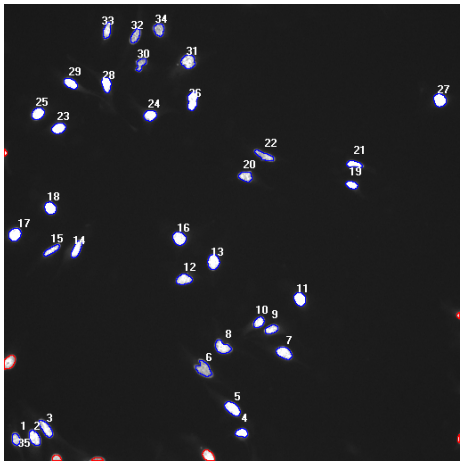
- Control over environmental temperature, CO_2, and humidity enables live cell experiments by maintaining precise physiological conditions throughout the assay time course, resulting in more biologically relevant results.

Integrated Liquid Handling

- A standard fully functional liquid handling system allows for compound and reagent delivery along with mixing and cell washing in either an eight channel or one channel format.

The Power of the Cellomics V2 BioApplications

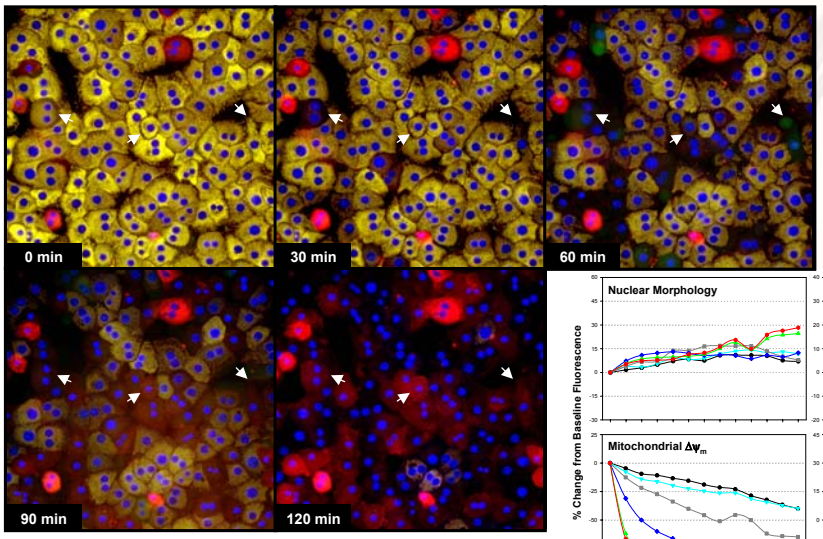
- The V2 BioApplications are a combination of general and targeted image analysis tools for multiplexed HCS Assays. A selection of assays that can be analyzed using the KineticScan and BioApplications are highlighted below:

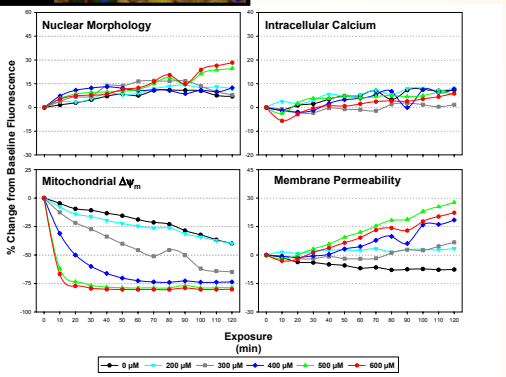


Proprietary cell tracking algorithm allows measurement of live cells even if they migrate over the time-course.

- Multiple Drug Resistance (MDR)
- Cell Spreading
- Receptor Internalization
- Ion Mobilization
- Plasma Membrane Potential
- GFP Expression
- Cytosolic pH
- Cell Motility
- GFP Expression
- Mitochondria Transmembrane Potential
- Oxidative Stress
- GPCR Signaling
- Cell Health Profiling
- Cytoskeletal Analysis
- Nitric Oxide

Flexible Multiplexed Analysis - The KineticScan HCS Reader combines a broad spectrum light source with automated filter and objective selection that provides flexibility when investigating multiple fluorescent reporters for multichannel imaging and analysis.





Haskins et al. Thiazolidinedione toxicity to isolated hepatocytes revealed by coherent multiprobe fluorescence microscopy and correlated with multiparameter flow cytometry of peripheral leukocytes. Arch Toxicol 2001;75(7):425-38.

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KineticScan HCS Reader Specifications - Version 2.2.0

Instrument Hardware—Standard

- KineticScan HCS Reader
- Standard 5X, 10X, 20X, 40x objectives
- 6-Channel capability allows imaging the full spectrum of visible light from violet to infrared
- High Efficiency Mercury-Xenon Illumination
- Selectable laser-based or software-based autofocus
- Integrated Live cell chamber
  - -Temperature control (ambient to 45°C)
  - -Carbon Dioxide control (ambient to 10%)
  - -Supplemental Humidity to reduce evaporation
- Integrated Pipetting System
  - -One or eight channel configuration with independent control of each channel
  - -Compatible with 96-well plates
- Installation Site Visit and 2-day Training
- 1 Seat in HCS 101 Training Class

Instrument Computer and Control System—Standard

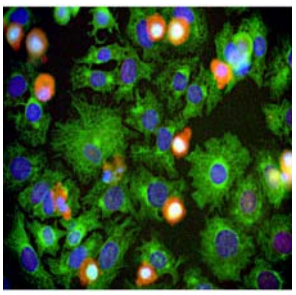
- KineticScan software for control of data acquisition, processing, analysis, and pipette scheduling.
- Microsoft Windows® 2000 and XP compatible.
- CD/DVD-RW and CD-ROM
- 19 Inch Flat Panel Monitor

BioApplications Software

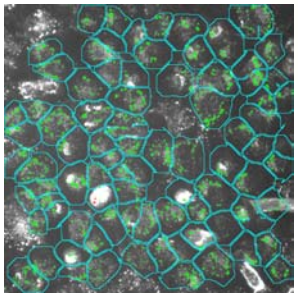
- Perpetual license to Target Activation V2 along with Cell*Select*™ Bronze level BioApplication subscription are included with purchase.
- Optional access to all Cell*Select* V2 BioApplications

Data Management

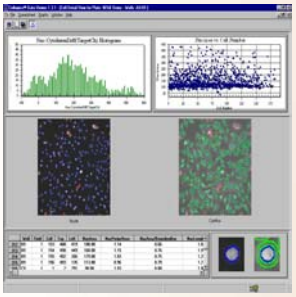
- vHCS:View client for remote data analysis
- Optional Cellomics Store database available
- Optional vHCS Discovery ToolBox available



Automate Image Acquisition



Automate Image Analysis



Automate Data Management

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