



**Thermo Scientific**  
ArrayScan XTI HCA Infinity Configuration

# explore the cell ... without limits

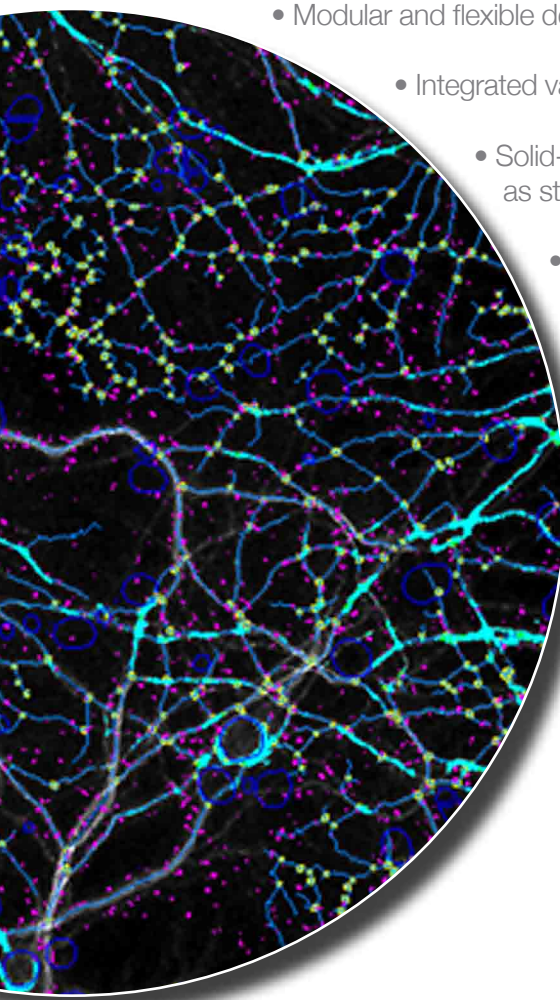
- Innovative confocal imaging • Live cell and label-free capability
- Modular, flexible design • Industry-leading analysis software

**Thermo**  
SCIENTIFIC

# answer your most demanding cell biology challenges

infinite possibilities

As scientists increasingly apply high content analysis to stem cell characterization, multi-dimensional cell models, primary cultures and tissues, the challenges posed by these applications demand new types of imaging techniques. The Thermo Scientific™ ArrayScan™ XTI HCA Infinity Configuration delivers the latest advances in multi-dimensional high content imaging and analysis – without sacrificing your productivity.



- Modular and flexible design for your most demanding high-content assays
- Integrated variable pin-hole confocal technology with innovative LED illumination
- Solid-state seven-color LED illumination, live cell and label free capabilities as standard
- Best-in-class image analysis software
- Open standard, scalable image and data management software
- The high-content reader at the core of hundreds of published papers

# take high content analysis into new areas of cell biology

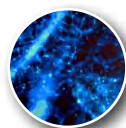
definite answers

Developed by the inventors of high-content analysis using over a decade of unequalled experience, the ArrayScan XTI HCA Infinity Configuration offers the broadest set of capabilities for the large-scale study of cell biology (cellomics) in a single, modular platform. From high-content assay development, through basic cell biology research to systems biology and drug discovery and toxicology, the ArrayScan XTI HCA Infinity Configuration has been designed to deliver robust, biologically relevant answers, with minimal effort and with the fastest “image-to-answer” on the market.



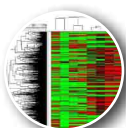
## Developing higher-content assays?

- Get up and running quickly with hundreds of pre-built, validated image analysis protocols
- Assay development is easy with our interactive image analysis software – no expertise required



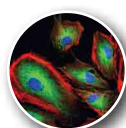
## More advanced biology?

- Live cell and label free capabilities allow pharmacokinetics, cell motility and extended toxicity studies to be performed
- Advanced widefield and confocal optics allow imaging of complex 3D cell structures, cell aggregations and tissues



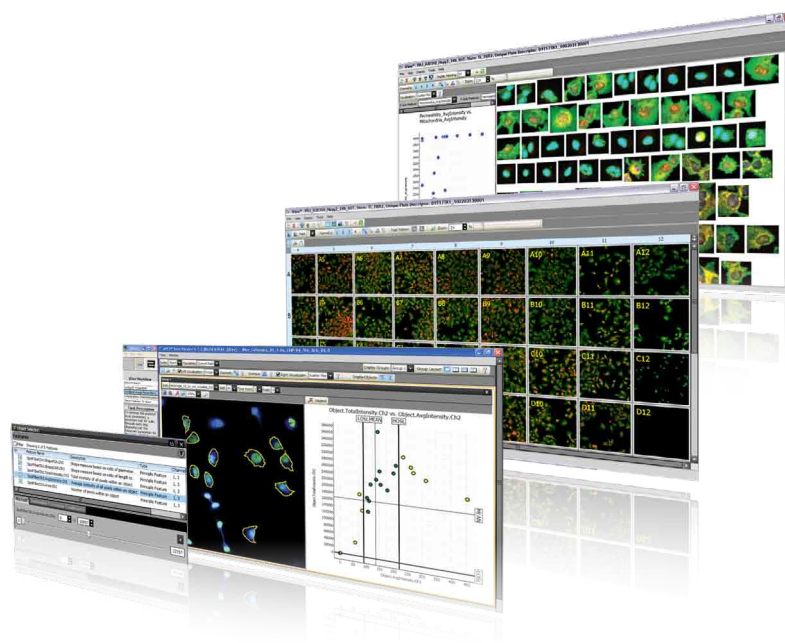
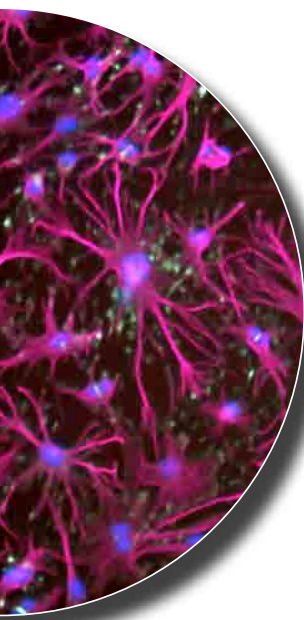
## Worried by all those images and data?

- Our data management software is based on open standards and does not require complex, expensive computer hardware
- Comprehensive visual analytics analyze the data and generate reports so you can communicate your answers quickly and effectively



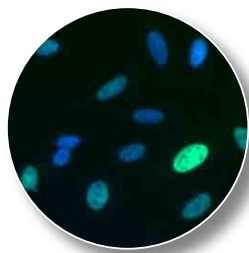
## New to high-content analysis?

- Our industry-leading training program allows you to quickly master the basics and become productive in your research
- Support for your high-content biology from our Center of Excellence and Field Application Scientists
- Global support from our experienced service and support team



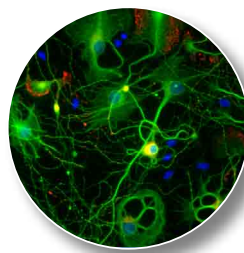
# all your high content needs in one modular integrated platform

integrating multi-dimensional imaging capabilities in one tool



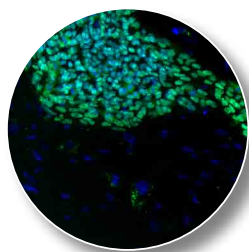
## 1. Live Cell Kinetics

The live cell module enables the dynamics of intracellular molecular interactions and cell motion to be studied. In addition, the system features the Zeiss™ Definite Focus module to maintain cells in optimal focus during long live cell experiments.



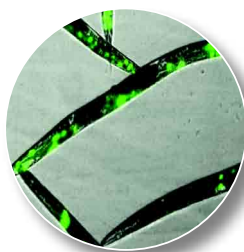
## 3. Optics by Carl Zeiss™

Acquiring high-quality images is the first step in high-content analysis. At the core of the instrument is the fully automated Zeiss™ Axiovert Z1 microscope that offers a range of objectives and other options for maximum imaging flexibility.



## 2. Confocal

The integrated confocal module provides maximum flexibility for all your biology and cell-based assay needs. The latest in high-speed Nipkow spinning disk technology and a variable pinhole, coupled with a unique seven-color LED light source allows stem cell colonies, tissues and 3D microenvironments to be imaged with ease.

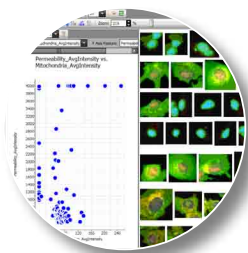


## 4. Label Free Imaging

The images collected by the Thermo Scientific™ Brightfield Module can be used to quantitate morphological features of cells, or as a way to gain an extra channel for fluorescence, increasing assay flexibility and significantly expanding assay capability.







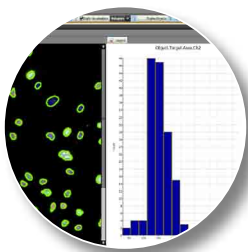
### 5. Powerful, Flexible Image Analysis Software

Designed to make single-cell measurements with precision and efficiency, Thermo Scientific™ BioApplications are the engine of high-content analysis and coupled with the Thermo Scientific™ HCS Studio™ Cell Analysis Software provide an intuitive, interactive step-by-step way to quickly build and optimize hundreds of image-based assays.



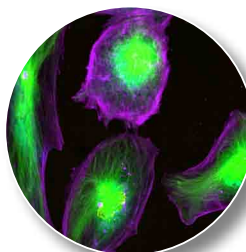
### 7. Orbitor RS Robot

Designed for use in the lab, the Thermo Scientific™ Orbitor™ RS Microplate Mover increases and expands the throughput capacity of your current reader.



### 6. Image and Data Management

Realizing the full potential of high-content analysis requires effective handling of massive amounts of images and data. Open standard, fast and secure, the Thermo Scientific™ Store™ Express Image and Database Management Software provides an out-of-the-box solution allowing you to immediately search, access, analyze and re-analyze all your images and data no matter the source. For a more scalable solution, choose the optional Thermo Scientific™ Store™ SE Image and Database Management Software.



### 8. LED Light Engine

High content analysis starts with a high-quality image which, in turn, depends on optimal illumination. The Thermo Scientific™ seven-color LED Light Engine is an ultra-stable, long-life, solid-state illumination source that delivers the most biologically relevant, statistically robust data about your cells, in the fastest time possible.



[thermoscientific.com/highcontent](http://thermoscientific.com/highcontent)

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**USA** +1 800 432 4091 info.cellomics@thermofisher.com

**Asia** +81 3 5826 1659 info.cellomics.asia@thermofisher.com

**Europe** +32 (0)53 85 71 84 info.cellomics.eu@thermofisher.com

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