Essen Bioscience IncuCyte® ZOOM is a device used for *in vivo* assays. This device is simply a microscope inside an incubator, solving potential problems that may result from disturbing cells during the observation process rendering long-term kinetic imaging practical and easy. Users can use this instrument to see what happened and when without ever removing their cells from the incubator. Key features include:

- Simple and flexible sample preparation ensures minimal cell perturbance in your choice of vessels.
- Automated setup: users can set up automated acquisition and analysis parameters with confidence, having no need to pre-define the assay endpoint.
- Automatic acquisition of images for hours, days or weeks.
- Powerful image visualization and analysis tools which enable real-time decision making. This includes efficient and reproducible image analysis and powerful visualization of images and timecourses.
- Support for multiple users, accommodating up to six microplates at a time. Users can schedule experiments at different image acquisition frequencies and magnifications in parallel.
- Remote, networked access with unlimited, free licenses.
- A unique optical design ensures that cells remain stationary while optics move.
- Multiple imaging modes: HD phase plus red and green fluorescence.
- CMOS camera and efficient optics enable sensitive, long-term live-cell imaging.
- 16 total core processors for enhanced speed of image processing and data analysis.

Applications

Cell Health & Proliferation

- Cell counting
- Viability
- Apoptosis
- Cytotoxicity
- Tumour Spheroid
- Cell Cycle

Cell Function

- Immune Cell Killing
- Immune Cell Activation
- Antibody Internalization
- Phagocytosis
- Angiogenesis
- Live-Cell Immunocytochemistry

Cell Movement & Morphology

- Scratch Wound Migration
- Scratch Wound Invasion
- Chemotaxis
- Neurite Outgrowth
- Dilution Cloning