

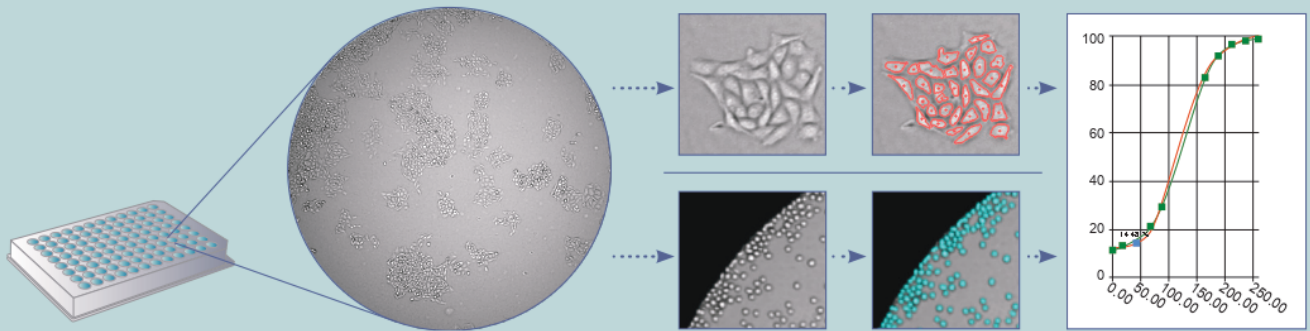
Image Cytometer for Adherent & Suspension Cells



Adherent cells

- Brightfield imaging and cell counting without trypsinization
- Non destructive, label free cytotoxicity assay
- Growth curve from the same well over multiple days

1. IMAGE entire plate → 2. ANALYZE cell images → 3. RESULTS data curves & cell images



Cell Culture Cell Counting, Confluence, Growth Tracking, Cell Line Generation, Single Cell Detection, Colony Counting, Transfection Efficiency

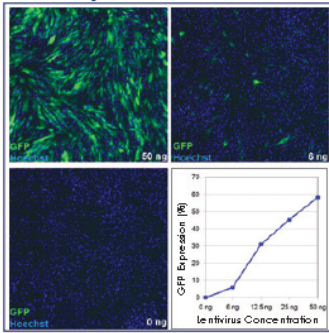
Example Assays Apoptosis, Cell Cycle, Cell Health, Cell Viability, Cytotoxicity, DNA Synthesis, Cell Morphology, Spheroid Analysis, Migration / Invasion Assay, Wound Healing, Expression Analysis, Cell Proliferation, Killing Assays

High Throughput Screening Robotic Integration, Cell Health, Proliferation, Fluorescent Assays, Tumorspheres

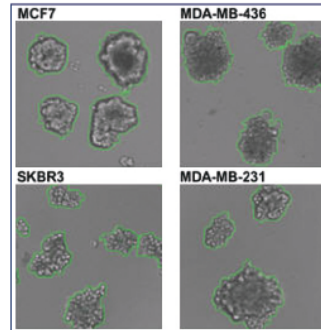
Stem Cell Research iPS Cell Line Generation, Embryoid Body Morphology, Stem Cell Marker, Primary Cell Monitoring, Colony Counting

Bio-Production Cell Secretion, Cell Line Monitoring, Routine Quality Controls

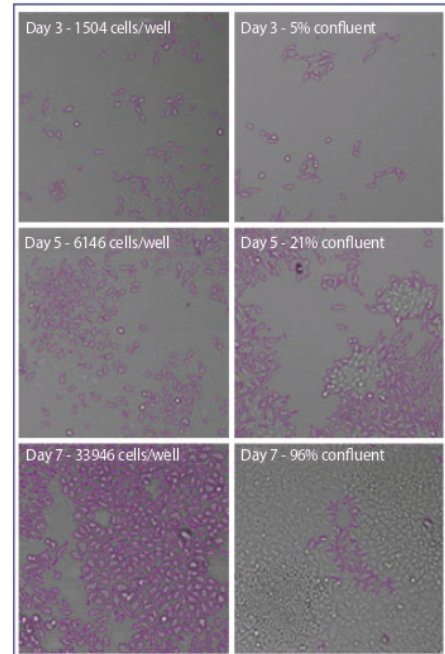
GFP Expression



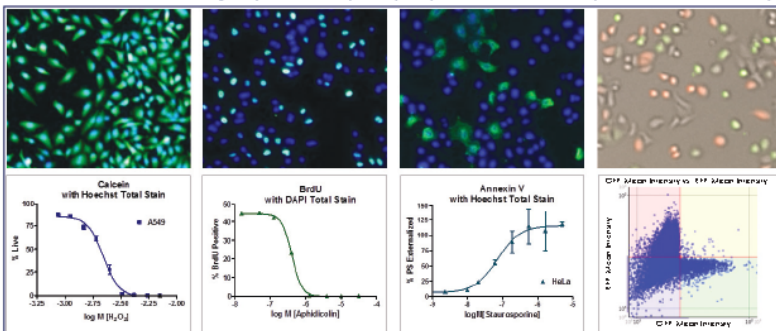
Spheroid Analysis



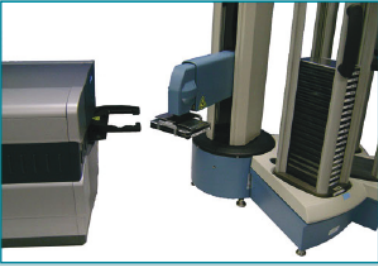
Cell Growth



Fluorescent Assays (Viability, Apoptosis, Cell Cycle, GFP/RFP)



Features and Benefits



- Increased speed for image acquisition and data processing
- Uniform high contrast and even illumination allows identification of "every cell in every well" with no edge effects
- Best-in-class brightfield mode permits label-free live cell assays
- 4 fluorescent channels allow multiplexed assays
- Proprietary optics provide high resolution images (1 μm / pixel) with minimum plate movement ensuring minimal sample disturbance
- Multiple focus modes to support many plate types
- Powerful, easy-to-use software reduces need for specialized users
- Automation interface for robotic integration enables 24/7 Celigo use
- Simultaneous data acquisition and analysis for high throughput applications
- Rapid image capture and processing allowing imaging and analysis of over 150,000 wells per day
- Proven performance with a wide range of adherent and non-adherent cell types

Celigo S advanced optics, sophisticated software and improved performance provide:

Plate Compatibility

6, 12, 24, 48, 96, 384, 1536 well plates (black, white and clear well plates) / T-25 and T-75 flasks. Slides and cell array plate profiles available upon request

Plate	Typical Time
1536-well plate	<6min
384-well plate	<2min
96-well plate	<3.5min

2 μm / pixel resolution results. Faster times available at other resolutions

Software

Powerful analysis software running under Windows 7

Illumination / Optics

- 1 LED-based enhanced brightfield imaging channel with uniform well illumination
- 4 LED-based fluorescent channels
- Proprietary F-theta lens with superior well edge-to-edge contrast
- Large chip CCD camera (2024 x 2024 pixels)
- 1 μm /pixel resolution (choice of 1, 2, 4, 8 μm /pixel)

Fluorescent Channels

Channel	Excitation	Dichroic	Emission	Example Dyes
Blue	377/50	409	470/22	Hoechst, DAPI FITC, Calcein,
Green	483/32	506	536/40	GFP, Alexa Fluor® 488
Red	531/40	593	629/53	R-PE, PI, Texas Red, Alexa Fluor® 568
Far-Red	628/40	660	688/31	DRAQ5®, Alexa Fluor® 647

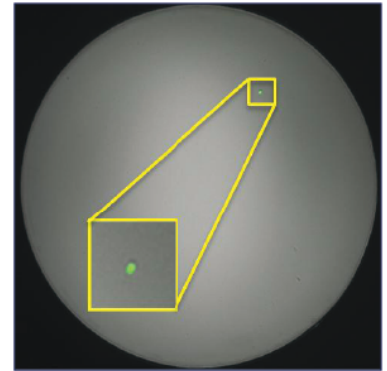
Dimensions

19" x 25" x 20" (48 cm x 64 cm x 51 cm), 117 lb. (53 kg)

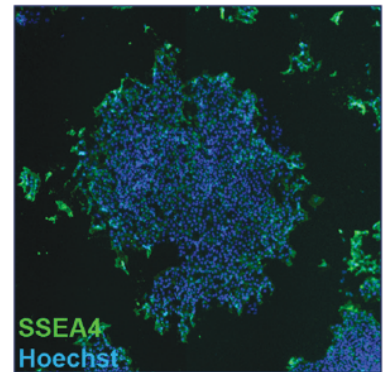
Facilities

110-220 VAC 50-60 Hz

Cell Line Development



Stem Cell Surface Marker



Cellometer®
Simply Counted

Celigo® S
Image Cytometer

Request a Demo!

Sign-up for an online demonstration by an Applications Specialist.

Call or email to sign up.
Mention **Celigo**.

E-mail info@nexcelom.com
or call **978-327-5340**