

CURIOSIS

# ***Celloger<sup>®</sup> Pro***

## ***Automated live cell imaging system***

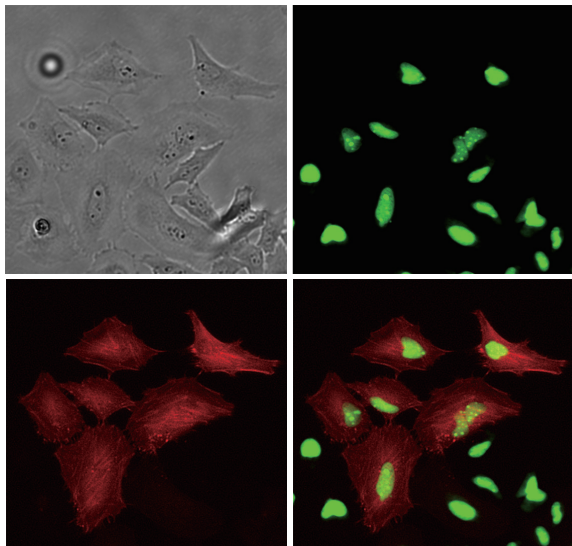


Seamless imaging, Limitless insights

**Discover the possibilities with Celloger<sup>®</sup> Pro**

- » Real-time cell monitoring inside an incubator
- » Dual fluorescence microscopy for enhanced imaging
- » Multi-point time-lapse imaging capability
- » User-interchangeable objective lens option
- » Intuitive interface and user-friendly tools

## Multicolor fluorescence and bright-field imaging



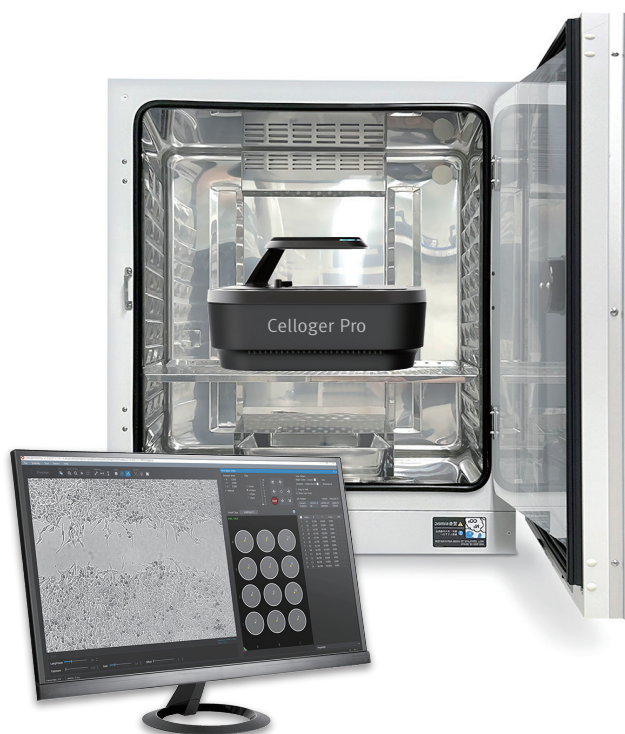
With its dualcolor fluorescence and bright-field imaging capabilities, Celloger® Pro enables the capture of **high-quality and high-resolution images**.

With enhanced scanning methods and innovative merging techniques, the system **reduces scanning time**, enabling researchers to analyze cellular dynamics with exceptional clarity and efficiency.

## Real-time monitoring inside incubator

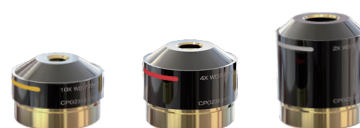
Celloger® Pro is designed to facilitate real-time monitoring of cells inside an incubator. By simply placing the device within the incubator and connecting it to an external PC, researchers are able to **remotely observe cells in real time**.

With the time-lapse function, cell images are captured according to the schedule set by the researcher; the images can then be **easily converted into time-lapse videos**.

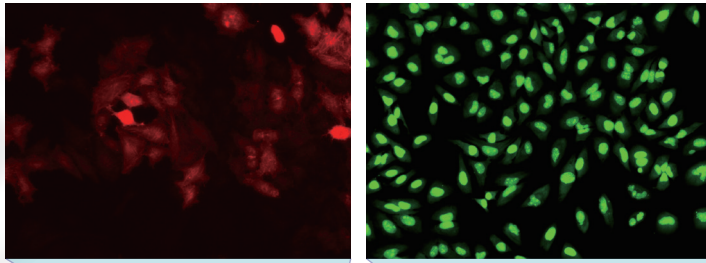


## User-interchangeable objective lens

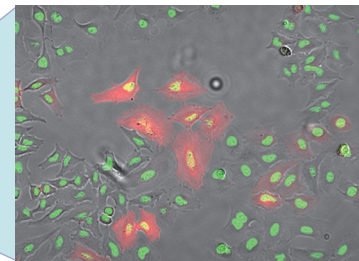
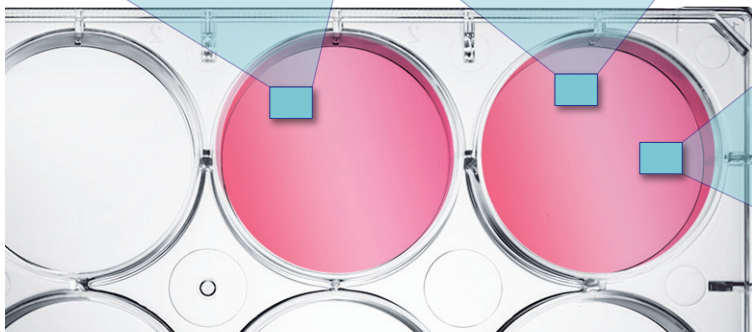
Celloger® Pro offers user-interchangeable objective lenses, **providing flexibility** to researchers based on their specific study requirements. With options such as **2X, 4X, 10X objectives**, users can switch between these lenses by hand.



## Capturing images from multiple positions



Celloger® Pro enables imaging of samples in multiple positions by automatically **moving the integrated camera** while keeping the vessel and sample fixed on the stage. This ensures a **stable environment for the cells**, resulting in enhanced image quality and **precise research outcomes**.

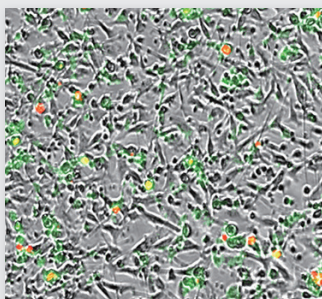


## Compatible with different vessel types

The system is compatible with different cell culture vessels such as **well plates** (up to 96 wells), **flasks**, **dishes**, and **slides**, and can switch between them by simply replacing the vessel holders for specific needs.

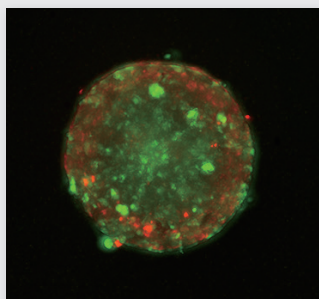


## Applications



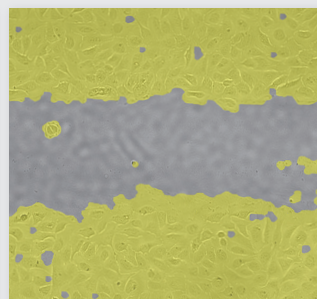
### Cytotoxicity

Monitor and measure the toxic effects of substances on cells, aiding various applications such as drug development and screening



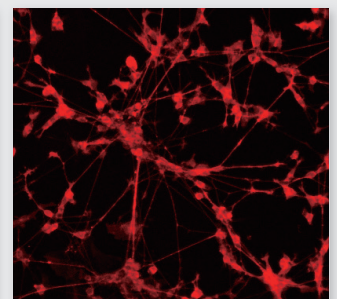
### Spheroid assay

Study spheroid formation and growth in real-time to track cell behavior and drug responses



### Scratch wound assay

Assess the impact of treatments on key cellular processes such as migration, proliferation, and wound healing



### Neurite outgrowth

Study the mechanisms and factors involved in neuronal development, connectivity, and regeneration

## Specification

<b>Imaging modes</b>	Brightfield, Dual fluorescence (Green & Red)
<b>Objective lens</b>	2X, 4X, 10X (User-interchangeable)
<b>Fluorescence</b>	Green (EX : 470/40, EM : 540/50) Red (EX: 562/40, EM: 641/75)
<b>Stage</b>	Fully motorized XYZ (Fixed stage, camera moving type)
<b>Camera</b>	High sensitivity 5.0 MP CMOS
<b>Imaging positions</b>	Multiple
<b>Field of view</b>	2X (2.02 x 1.49 mm), 4X (1.41 x 1.05 mm), 10X (0.70 x 0.52 mm)
<b>Focus</b>	Autofocus, Manual focus
<b>Imaging methods</b>	Single/multicolor, stitching, Z-stacking, time-lapse, real-time recording
<b>Included software</b>	Scan App, Analysis App
<b>Dimensions (H x W x L)</b>	250 x 338 x 412 mm
<b>Weight</b>	9.6 kg
<b>Culture vessels</b>	Well plate up to 96-well, flask, dish, slide
<b>File export format</b>	TIFF, AVI (JPEG, PNG)
<b>Operating environment</b>	10~40°C, 20~95% humidity
<b>Power requirement</b>	100~240V, ~50/60Hz
<b>O/S required</b>	Windows 10 and above
<b>Incubator specification</b>	Above 200L (recommended)

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