CURIOSIS

Celloger® Series

Capture the moments of dynamic cellular processes, improving your research with comprehensive insights

Automated live cell imaging system

Celloger® Nano · Celloger® Mini Plus · Celloger® Pro · Celloger® Stack

R&D 100 2023 WINNER · iF GOLD AWARD 2022

■ Celloger® Line-up

Celloger® Pro

The Celloger® Pro is the most advanced and latest product in the Celloger® series. Providing researchers with state-of-the-art functionalities, it offers unmatched convenience and exceptional image quality, enhancing and expanding the scope of experiments.

Celloger® Mini Plus

The Celloger® Mini Plus is a fundamental system for live cell imaging. By offering essential and user-friendly tools for analyzing live cells, it serves as a basic system for researching dynamic cellular events, representing a model within the Celloger® series.

Celloger® Nano

The Celloger® Nano is the most compact and economical system among the Celloger® series. It can wirelessly connect to a tablet or laptop, enabling users to observe and analyze cells from anywhere. With its manual stage compatible with any vessels, it makes it easy to quickly check the state of cells.

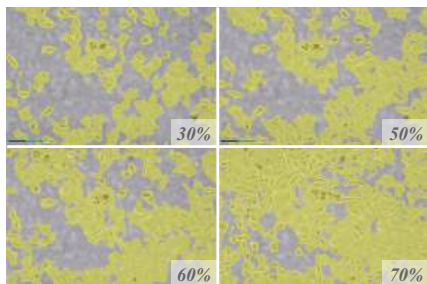## Celloger® Stack

Celloger® Stack is an automated multi-layer vessel monitoring device, a useful system for large-scale cell cultures. By utilizing the alarm system to notify users when the optimal confluency level has been reached, it enables easy harvesting of cells at the appropriate times.

▌List of Awards

▪ Key Applications of Celloger®

NIH3T3

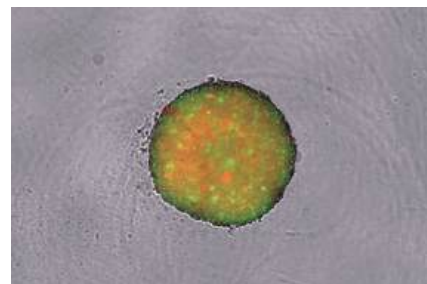### Cell proliferation
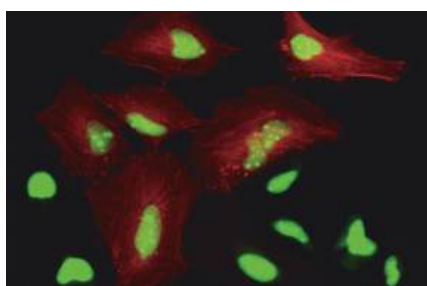Taken from Celloger® Nano (10X)

HeLa

Apoptosis
Taken from Celloger® Pro (4X)

HEK293-GFP

Spheroid cytotoxicity
Taken from Celloger® Pro (2X)

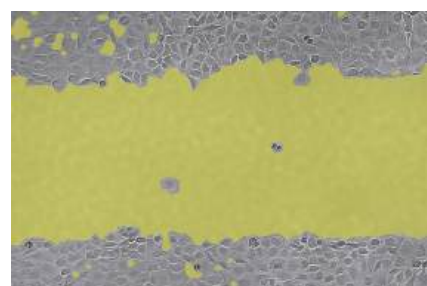

HeLa-tdTomato

Sublocalization
Taken from Celloger® Pro (10X)

NIH3T3 & MCF-7
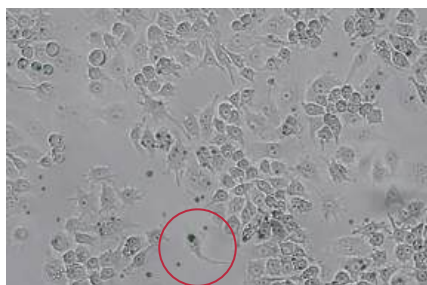
Co-culture monitoring
Taken from Celloger® Nano (4X)

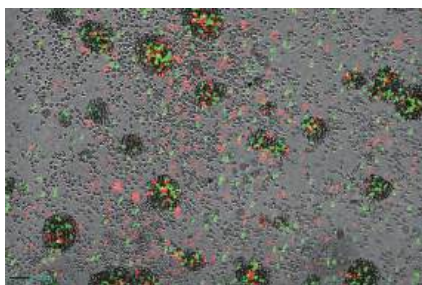
L929

Wound-healing assay
Taken from Celloger® Mini Plus (4X)
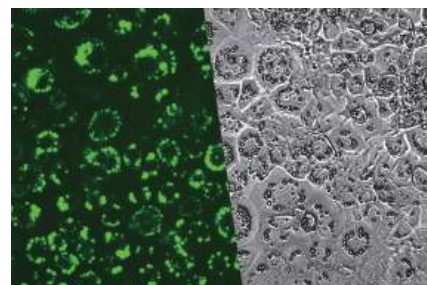

Raw 264.7

Phagocytosis monitoring
Taken from Celloger® Mini Plus (10X)
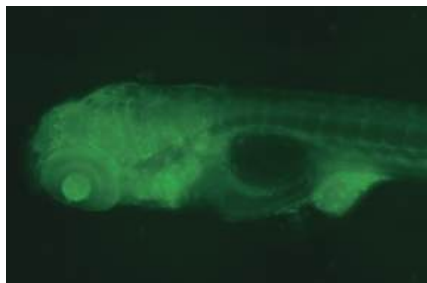

K562 & NK92

NK cell killing assay
Taken from Celloger® Pro (4X)

HeLa

Adipogenesis
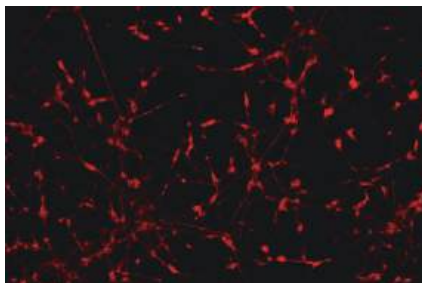Taken from Celloger® Pro (10X)

Zebrafish

Zebrafish observation
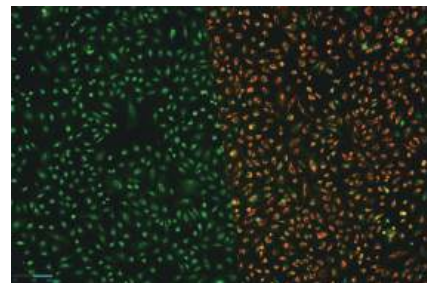Taken from Celloger® Mini Plus (4X)
*using Z-stacking and stitching functions

SH-SY5Y

Neurite outgrowth
Taken from Celloger® Mini Plus (4X)

HeLa

Mitochondrial membrane potential
Taken from Celloger® Pro (2X)

▶ Youtube

Find out more applications and time-lapse videos of Celloger® series

■ Key Features of Celloger®

Real-time cell monitoring inside an incubator

The Celloger® series is designed for efficiently monitoring cells in real-time without disturbing cell-growth conditions. By simply placing the devices within the incubator and connecting them to an external PC, researchers can remotely observe cells in real time.

Compatible with different vessel types

To accommodate for a wide range of experiments, different cell culture vessels such as well plates, flasks, dishes, and slides can be used by simply replacing the vessel holders for specific needs.
*Celloger® Stack is used for multi–layer vessel types.

Time-lapse imaging capability

Using the time-lapse function, cell images are captured automatically according to the schedule set by the researcher and the images are easily converted into time-lapse videos.

User-friendly functions included in the software package

The Scanning and Analysis software are included as standard packages, allowing users to create unlimited copies of both software. Researchers can easily set multiple image capture modes and generate productive experimental data using a range of analysis tools available in these software.

User-interchangeable objective lens

Pro

2X   4X   10X

Wireless connection

Nano

Efficient image-processing method
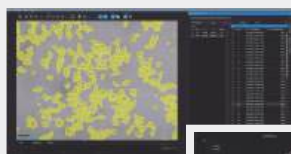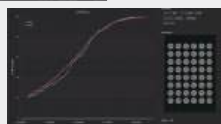
Cell confluency

Pro   Mini Plus   Nano   Stack

<Confluency mark>

<Confluency(%) graph>

Z-Stacking

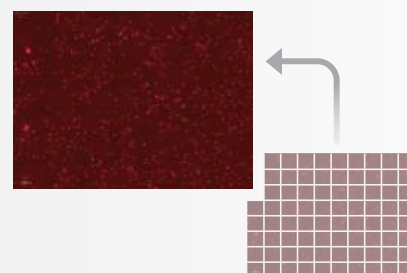Pro   Mini Plus   Nano

4.130   4.150   4.170
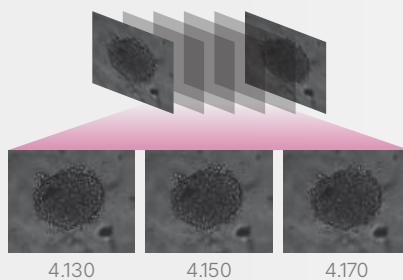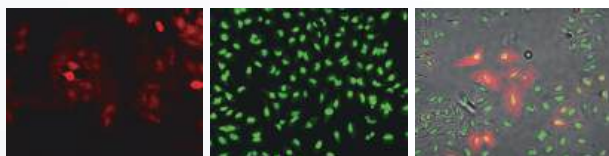
Stitching

Pro   Mini Plus

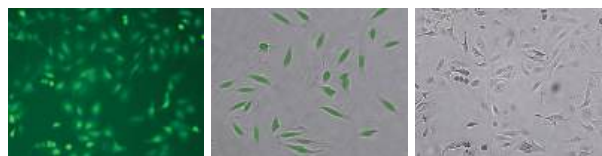## Dual color fluorescence (green and red)

Pro

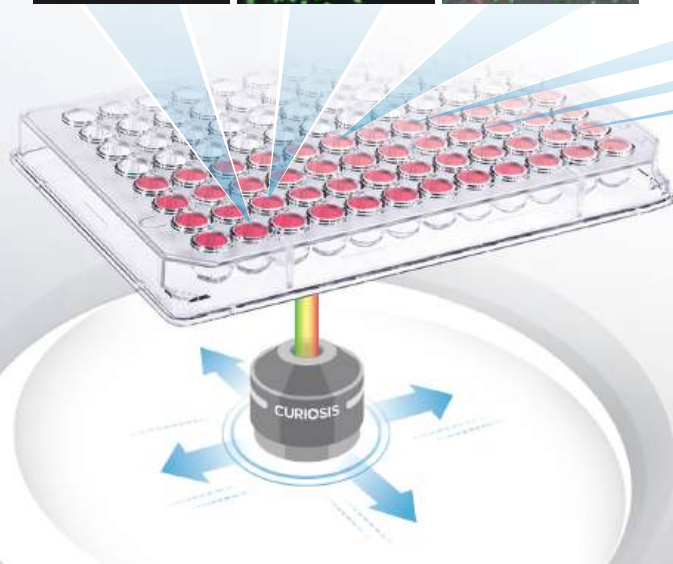## Single color fluorescence (green or red)

Mini Plus   Nano

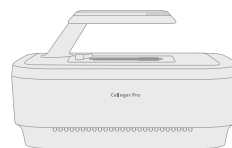## High-quality images from multiple positions (camera moving type)
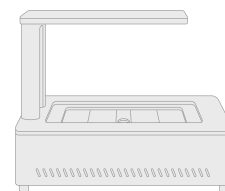
Pro   Mini Plus   Stack

Specification

	Celloger® Nano	**Celloger® Mini Plus**	**Celloger® Pro**	**Celloger® Stack**
Dimension (H x W x L)	188 × 146 × 211 mm	215 × 226 × 358 mm	250 × 338 × 412 mm	350 × 330 × 450 mm
Weight	3.2 kg	5.6 kg	9.6 kg	15 kg
Imaging modes	Bright-field, Green or Red fluorescence	Bright-field, Green or Red fluorescence	Bright-field, Green and Red fluorescence	Bright-field
Magnification	2X / 4X / 10X	2X / 4X / 10X	2X, 4X, 10X (User interchangeable)	2X
Fluorescence — Green	Ex : 470/40 Em : 510lp	Ex : 470/40 Em : 510lp	Ex : 470/40 Em : 540/50	-
Fluorescence — Red	Ex : 525/30 Em : 570lp	Ex : 525/30 Em : 570lp	Ex : 562/40 Em : 641/75	-
Field of view — 2X	2.5 × 1.9 mm	2.0 × 1.5 mm	2.0 × 1.5 mm	2.5 × 1.9 mm
Field of view — 4X	1.2 × 0.9 mm	1.4 × 1.0 mm	1.4 × 1.0 mm	-
Field of view — 10X	0.6 × 0.4 mm	0.7 × 0.5 mm	0.7 × 0.5 mm	-
Imaging positions	Single	Multiple	Multiple	Multiple
Focusing	Manual and Auto	Manual and Auto	Manual and Auto	Manual and Auto
Culture vessels	Slide, Dish, Flask, Well plate (up to 96-well)	Slide, Dish, Flask, Well plate (up to 96-well)	Slide, Dish, Flask, Well plate (up to 96-well)	Multi-layer chamber (up to 10 layers)
Operating environment	10-40°C temperature, 20-95% humidity			
File export format	TIFF, AVI, CSV (JPEG, PNG)			
O/S required	Windows 10 and above			
Software functionalities — Real-time recording	●	●	●	●
Software functionalities — Time-lapse video	●	●	●	●
Software functionalities — Cell confluency	●	●	●	●
Software functionalities — Z-stacking/projection	●	●	●	
Software functionalities — Stitching		●	●	
Software functionalities — Spheroid/organoid analysis		●	●	
Software functionalities — Deconvolution		●	●	
Software functionalities — Dual screen analysis			●	
Software functionalities — Cell counting (FL)			●	

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