CURIOSIS

SINCE 1889 Yamato Scientific America

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

2023 R&D 100 WINNER

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.

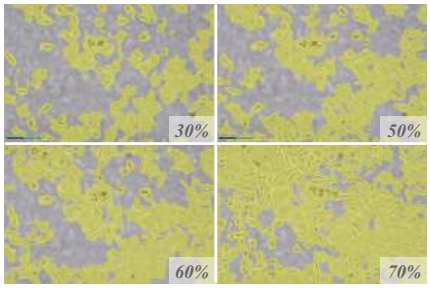
Celloger® Stack

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

2023 R&D 100 WINNER · iF GOLD AWARD 2022 · iF DESIGN AWARD 2022 · reddot winner 2022 · GOOD DESIGN AWARD 2022 · GOOD DESIGN AWARD 2021 · GOOD DESIGN KOREA · FEATURED FINALIST 2022 · KOREA WORLD CLASS · iR52 장영실상

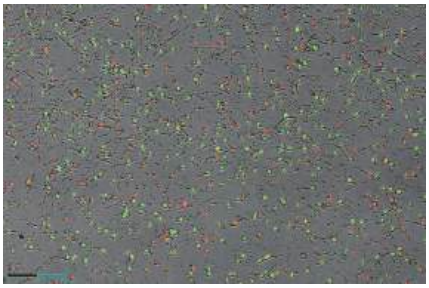
Key Applications of Celloger®



NIH3T3

Cell proliferation

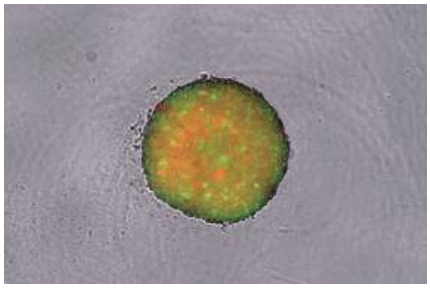
Taken from Celloger® Nano (10X)



HeLa

Apoptosis

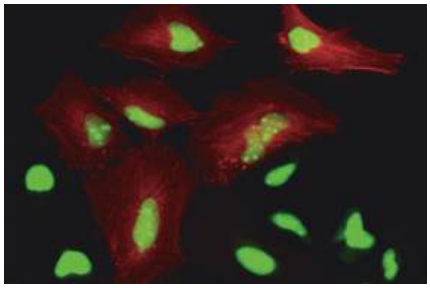
Taken from Celloger® Pro (4X)



HEK293-GFP

Spheroid cytotoxicity

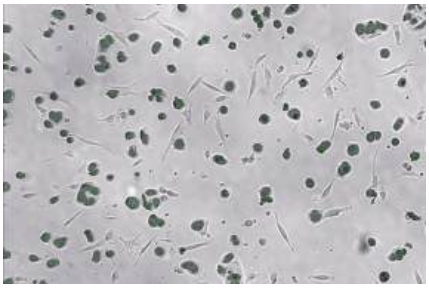
Taken from Celloger® Pro (2X)



HeLa-tdTomato

Sublocalization

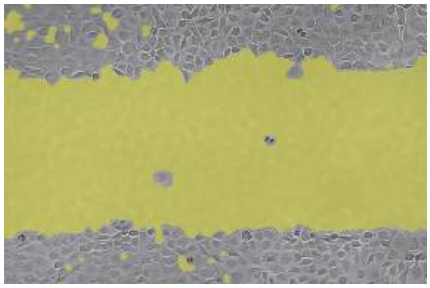
Taken from Celloger® Pro (10X)



NIH3T3 & MCF-7

Co-culture monitoring

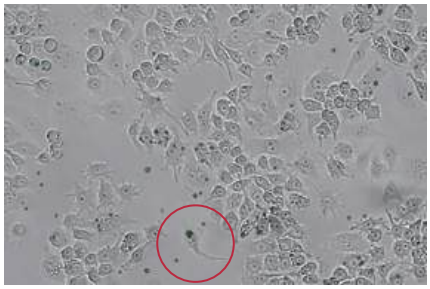
Taken from Celloger® Nano (4X)



L929

Wound-healing assay

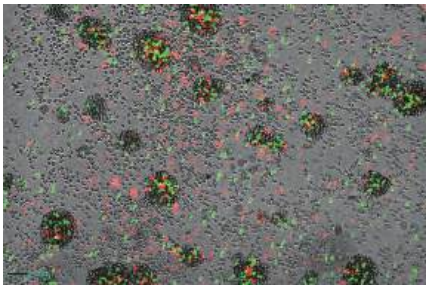
Taken from Celloger® Mini Plus (4X)



Raw 264.7

Phagocytosis monitoring

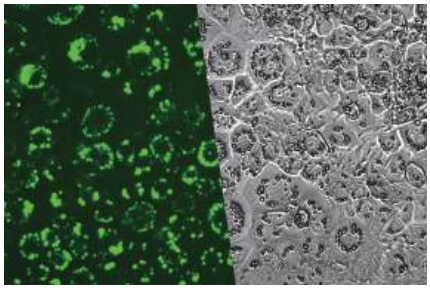
Taken from Celloger® Mini Plus (10X)



K562 & NK92

NK cell killing assay

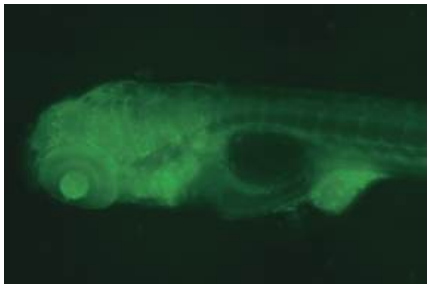
Taken from Celloger® Pro (4X)



HeLa

Adipogenesis

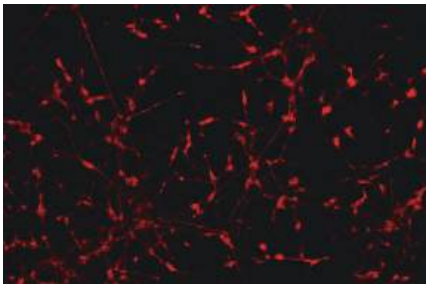
Taken from Celloger® Pro (10X)



Zebrafish

Zebrafish observation

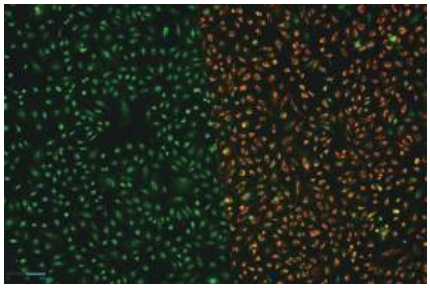
Taken from Celloger® Mini Plus (4X)
*using Z-stacking and stitching functions



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®

Pro | Mini Plus | Nano | Stack

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

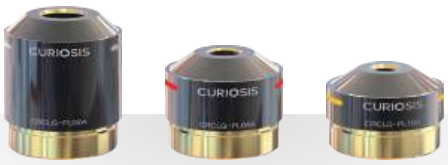
Using the time-lapse function, cell images are captured automatically according to the schedule set by the researcher and the images are easily converted into time-lapse videos.

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

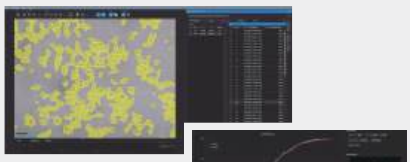
Wireless connection

Nano

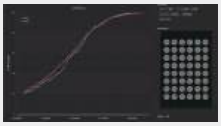
Efficient image-processing method

Cell confluency

Pro Mini Plus Nano Stack



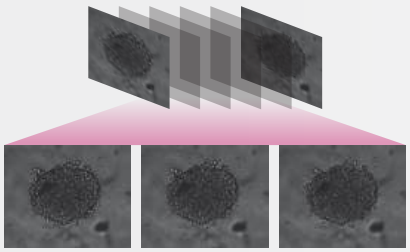
<Confluency mark>



<Confluency(%) graph>

Z-Stacking

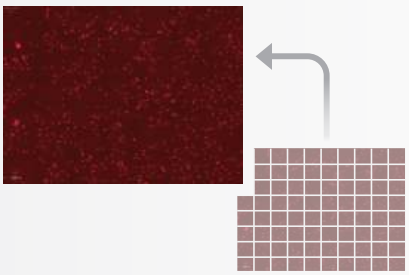
Pro Mini Plus Nano



4.130 4.150 4.170

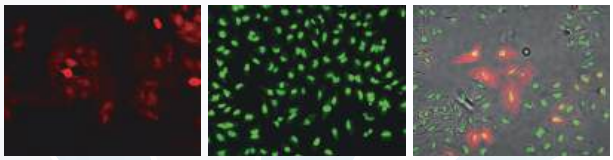
Stitching

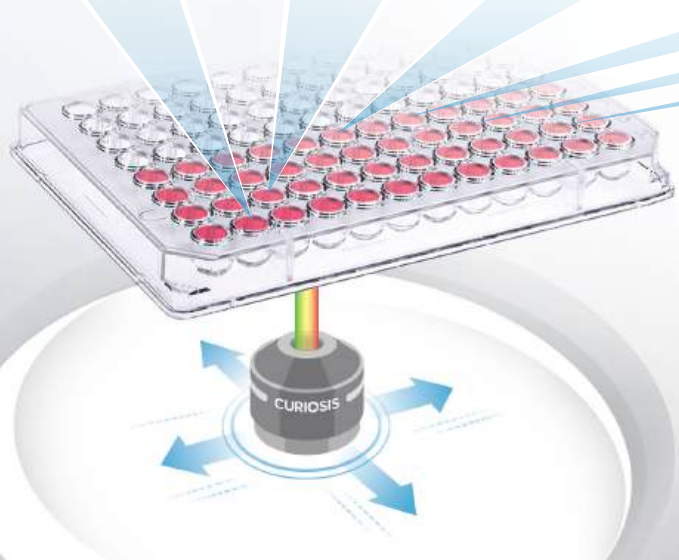
Pro Mini Plus



Dual color fluorescence (green and red)

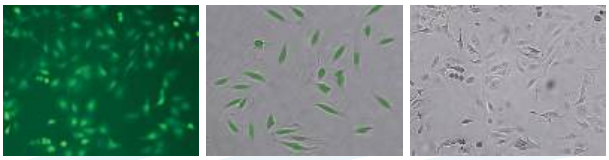
Pro





Single color fluorescence (green or red)

Mini Plus Nano



High-quality images from multiple positions (camera moving type)

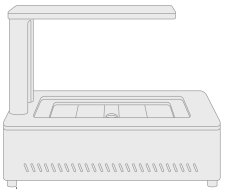
Pro Mini Plus Stack

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 and Red fluorescence	Bright-field
Magnification		2X / 4X / 10X		2X, 4X, 10X (User interchangeable)	2X
Fluorescence	Green	**Ex :** 470/40 **Em :** 510lp		**Ex :** 470/40 **Em :** 540/50	-
	Red	**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		2.5 × 1.9 mm
	4X	1.2 × 0.9 mm	1.4 × 1.0 mm		-
	10X	0.6 × 0.4 mm	0.7 × 0.5 mm		-
Imaging positions		Single	Multiple		
Focusing		Manual and Auto			
Culture vessels		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	●	●	●	●
	Time-lapse video	●	●	●	●
	Cell confluency	●	●	●	●
	Z-stacking/projection	●	●	●	
	Stitching		●	●	
	Spheroid/organoid analysis		●	●	
	Deconvolution		●	●	
	Dual screen analysis			●	
	Cell counting (FL)			●	

AUTHORIZED USA DISTRIBUTOR:

Yamato Scientific America Inc.

2040 Corporate Ct. San Jose, CA 95131

408.235.7725 I customerservice@yamato-usa.com

Curiosis Inc.

+82 2 508 5237 I sales@curiosis.com I South Korea

curiosis.com

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