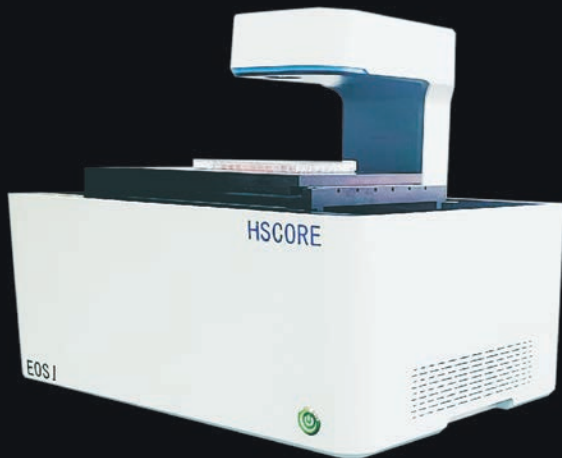
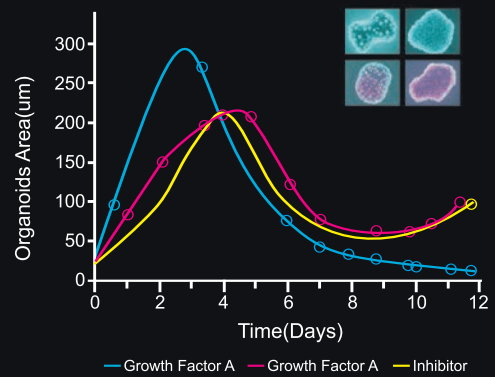
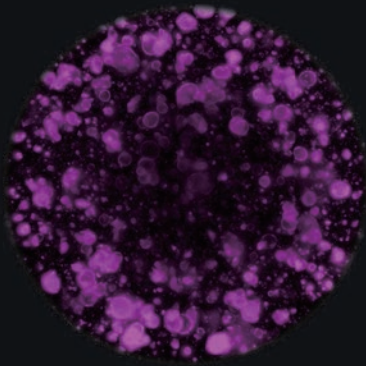


HSCORE

EOS Series

Next-Generation Long-Term Live Cell Imaging & Analysis System
Unveiling the Dynamics of Cell, Frame by Frame.



Precision Engineering Meets Artificial

Intelligence Performance

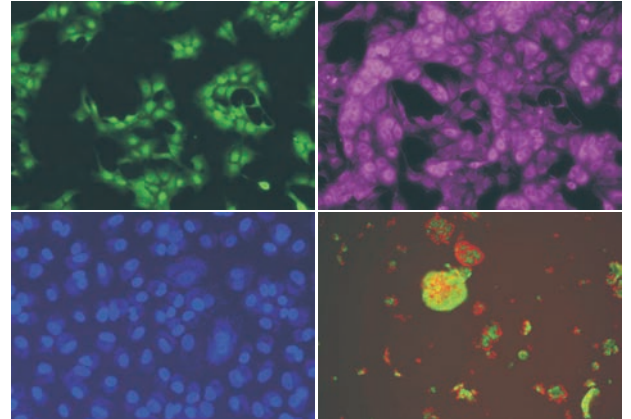
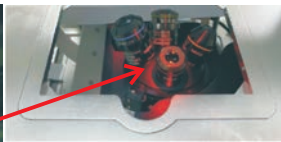
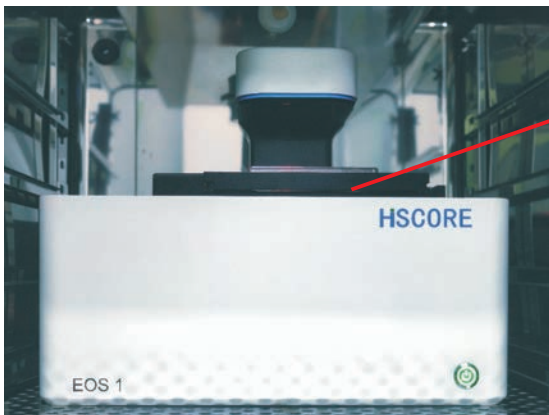
Imaging mode: Brightfield & Phase, Multi-Fluorescence, Z-Stacking, and Smart Stitching

Objective: Olympus objectives 4X,10X,20X,40X(option), motorized 4-position turret

Fluorescence: RGB, NIR, AO/PI(viability analysis)

XYZ Control: Micron precision with AI-driven fast autofocus

Guided Navigation: Step-by-step interface for easy experiment setup



Application

Cell Health & Proliferation: Dynamic Growth, Cell Fate, Label-Free Analytics

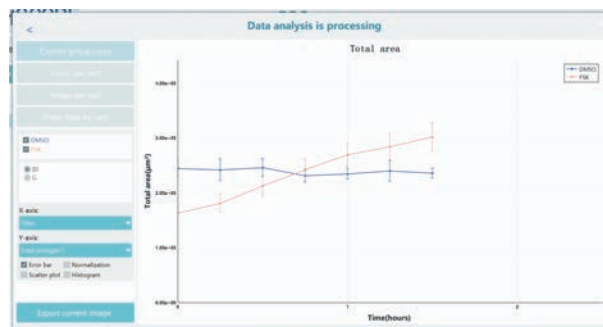
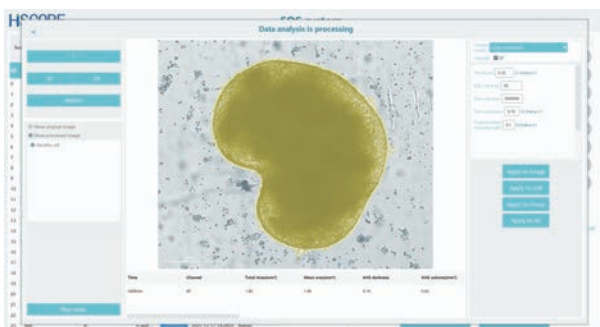
Advanced Cellular Functions: Immune Cell Killing, Antibody Internalization, Phagocytosis, In-situ Immunocytochemistry within a physiological environment, Real-time Neuronal Activity & Kinase Akt signaling assays

Cell Movement & Morphology: Kinetic Motility, Wound healing, Neuro-Morphology, Phenotypic Profiling

Next-Gen 3D & Molecular Models: Organoid Assay, Genetic Insights

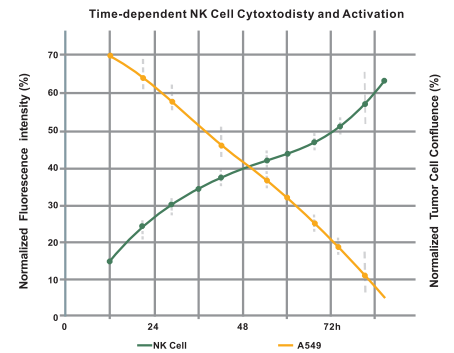
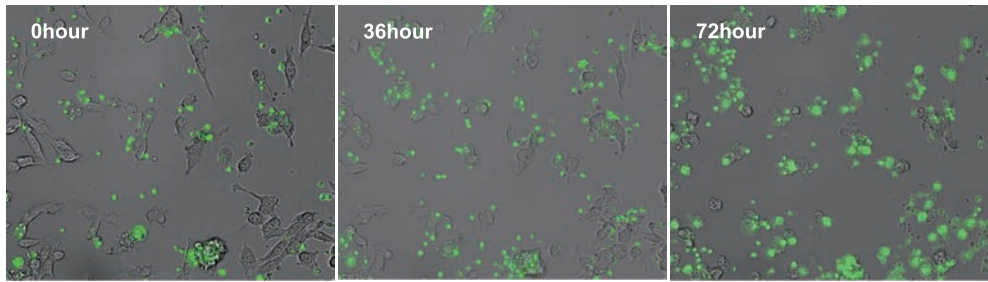
Stem Cell Differentiation & Organoids

Observe the long-term formation of 3D organoids. Z-stacking and tiling features provide a comprehensive view of complex biological structures without disturbing their growth.



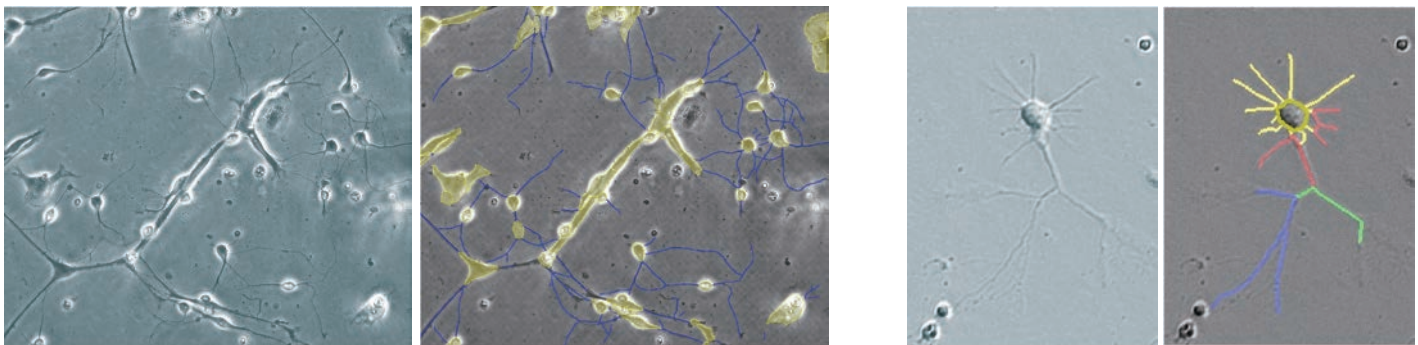
T-Cell Killing & Immune Oncology

Quantify the potency of CAR-T cells in real-time. Automatically calculate killing efficiency and effector-to-target cell interactions over 72+ hours.



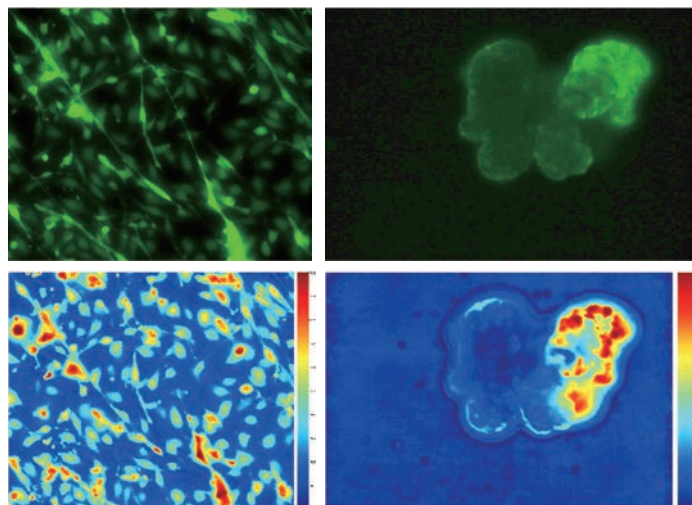
Advanced Neurite Outgrowth Analysis

Automatically quantify key morphological parameters such as neurite length, branching points, and process integrity over extended periods. Intelligent algorithms provide precise, unbiased data for neuronal development, differentiation, and neurotoxicity studies.

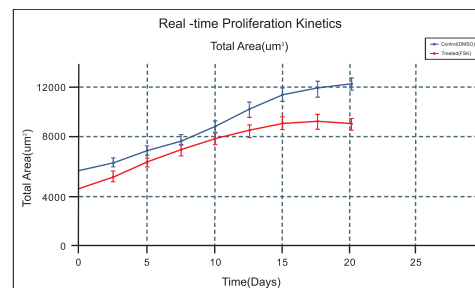
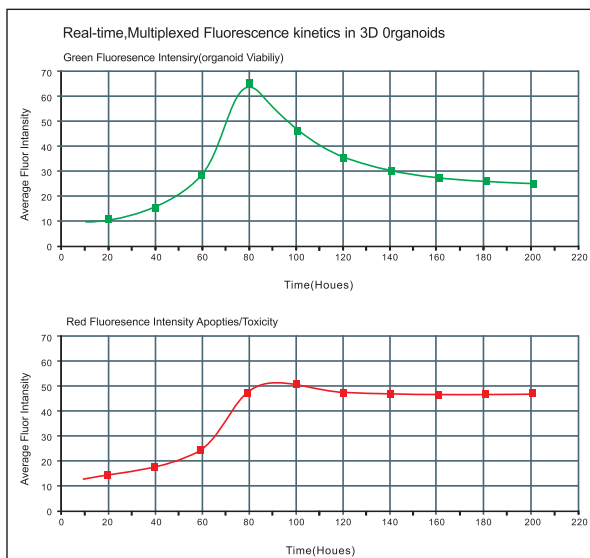
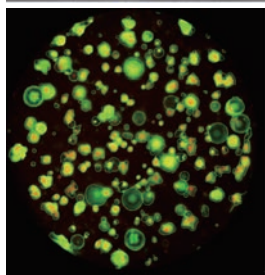
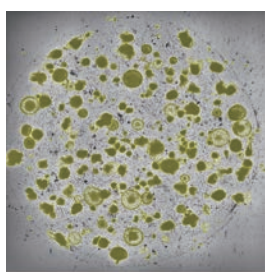


Calcium Spikes

Ultra-fast sampling for precise kinetic waveform analysis. Seamlessly monitor the calcium flux of 3D cardiac organoids, neuronal firing patterns and network-level responses through long-term calcium transient tracking.

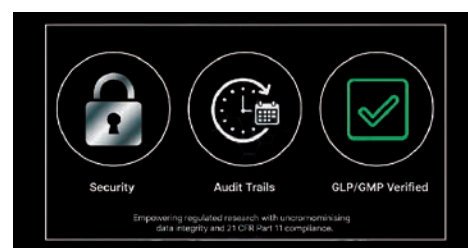


Real-time 3D Functional Profiling Effortlessly monitor the dynamic interplay between different fluorescent signals within organoid.



Compliance: Fully compatible with GLP/GMP laboratory requirement

Empowering regulated research with uncompromising data integrity and 21 CFR Part 11 compliance.



Selected Publication

- Histone Lactylation–Mediated Metabolic Remodeling in Vascular Smooth Muscle Cells Aggravates Aortic Aneurysm and Dissection by Promoting Lactate Accumulation **Circulation.2026**
- Enhancing Breast Cancer Immunotherapy by Suppressing Sympathetic Nervous System-Driven T-Cell Exhaustion and Promoting T-Cell Priming and Trafficking **ACS Nano. 2026**

Specifications

Model	EOS1	EOS6
Imaging Modes	Brightfield, Phase Contrast, Fluorescence (Up to 6 channels)	
Objectives	4x, 10x, 20x, 40x(OPTIONAL)	
Camera	7.1MP CMOS	5MP CMOS
Vessel Compatibility	Well-plates (6 to 384), Petri dishes, T-flasks, Slides	
Z-Stacking&Sting	Automated multi-layer imaging with software autofocus	
Data Output	MP4, AVI, TIFF, CSV, PDF Reports	

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