

X-Ultra Series

FULLY AUTOMATED FLUORESCENCE IMAGING SYSTEM

Intelligent Imaging and Analysis Platform for Live-Cell Research

Crystal-Clear Imaging

Fully Automated Operation

AI-Powered Analysis

High-Throughput Scanning



▲ OPEN

RDEET

Sleek Design Limitless Intelligence

Minimalist Design · Powerful Core

High-Definition Imaging

Equipped with a high-resolution dual-camera system (monochrome & color). Supports fluorescence, brightfield, and phase contrast imaging, delivering clear and detailed visualization of diverse specimens.

Fully Motorized Operation

A fully motorized platform supports a wide range of applications – including slide scanning, multi-well plate imaging, and petri dish observation – enabling high-precision imaging across diverse experimental workflows.

High-Throughput Analysis

Enables simultaneous live-cell culture and automated imaging of two microplates, enhancing experimental throughput and minimizing wait times.



X-Ultra

01 New Fluorescence Module
A larger optical aperture enhances the capture of weak fluorescence signals; an improved opto-mechanical design provides better suppression of stray light

02 High-Performance Dual-Camera Configuration
Equipped with monochrome and color cameras; Pixel size: 3.45µm, camera frame rate greater than 70 FPS, one-click camera switch in under 1 second.

03 Fully Automated Workflow
Supports motorized stage, automatic focus, motorized light source, objective, diaphragm, and camera switch with intelligent control, significantly improving experimental efficiency and data quality for high-repeatability and high-accuracy data acquisition.

04 Large Field-of-View Single-Well Imaging
Breaking limitations: Easily achieve single-well imaging for 96- and 384-well plates with lossless images, enhancing efficiency.

05 High Throughput
Supports simultaneous scanning of two 96- or 384-well plates, or up to 8 slides, enabling efficient high-throughput imaging across multiple sample types.

06 AI-Powered Analysis
Built-in AI models support various computational/analytical functions, including cell counting, fluorescence intensity quantification, 2D deconvolution, 3D reconstruction, colocalization analysis, automatic plate modeling, and scratch assay analysis.

Powerful Modular Software Features

Comprehensive modules for efficient imaging, analysis, and data processing

Software Module

Automation

Fully Automated Scanning and Acquisition

Time-Lapse Imaging and Real-Time Recording

Analysis

Cell Analysis Module

Cell Measurement and Annotation

Imaging

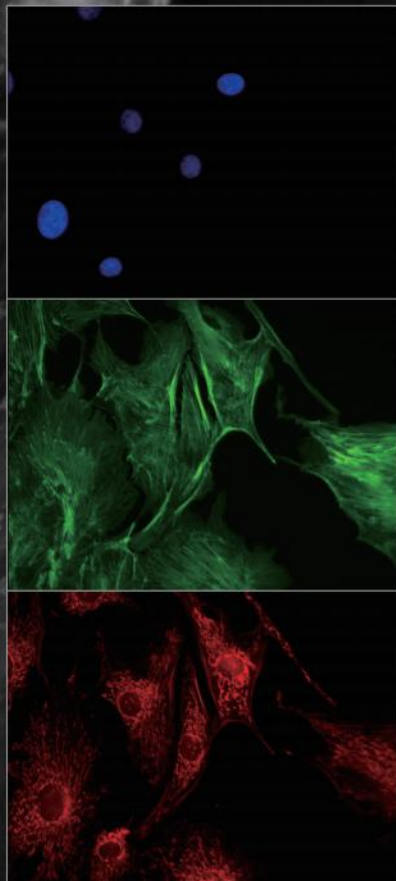
Image Processing and Enhancement

Image Batch Processing

3D Reconstruction

Proprietary Optical System for Exceptional Image Quality

High-sensitivity dual cameras and high-intensity LED illumination work in synergy to deliver crisp and stable imaging performance.



One-Click Switching Between Monochrome and Color Cameras, Enabling High-Sensitivity Imaging and Precise Analysis

High-Sensitivity Scientific-Grade Monochrome CMOS Camera: Precisely captures fluorescence signals to clearly reveal intracellular structures, ensuring a high signal-to-noise ratio and accurate quantitative fluorescence analysis.

High-Resolution Scientific-Grade Color CMOS Camera: Features a wider dynamic range ideal for multi-color brightfield imaging. It accurately resolves subtle color variations, delivering high-definition imaging for histopathology and live-cell observation.



HIGH QUALITY IMAGES

Second-Generation Fluorescence Module

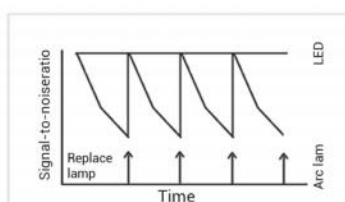
Larger Optical Aperture and Improved Structural Design

The fluorescence module has been structurally optimized to suppress stray light across different channels, effectively improving the signal-to-noise ratio.



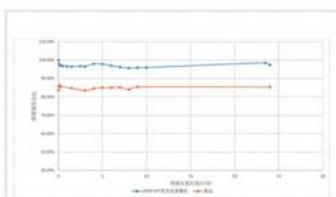
01

Optimized Optical Path Architecture
Improves Imaging Signal-to-Noise Ratio



02

Long-Life Fluorescence Illumination
Ensures Consistent Long-Term Performance



03

Highly Stable Illumination Output
Supports Quantitative Imaging Analysis



04

High-Performance Optical Filter System
Minimizes Spectral Crosstalk

High-Precision Stage



The X-Ultra features a highly stable motorized stage, ensuring consistent and reproducible imaging across large-area stitching, Z-stack scanning, and long-term live-cell imaging. Its robust mechanical design provides reliable spatial precision.

Ultra-Large Imaging Field of View



Compared to conventional systems, the X-Ultra enables whole-well imaging of 96-well plates using a 2X objective, and 384-well plates using a 4X objective. This minimizes stitching time and significantly enhances both imaging speed and precision.

Intelligent Adapter Calibration



The X-Ultra imaging system features proprietary container calibration and built-in navigation, enabling intelligent positioning and one-click image capture. Rapid calibration eliminates manual microplate boundary detection for a more efficient workflow.

ADVANCED IMAGING AND INTELLIGENT ANALYSIS

X-Ultra offers user-friendly operation with robust expandability.

Modular Design: Built-in core hardware enables rapid functional expansion based on experimental needs, without additional hardware modification.

Unified User Interface: Expanded functions are seamlessly integrated without affecting the original workflow, ensuring a smooth user experience.

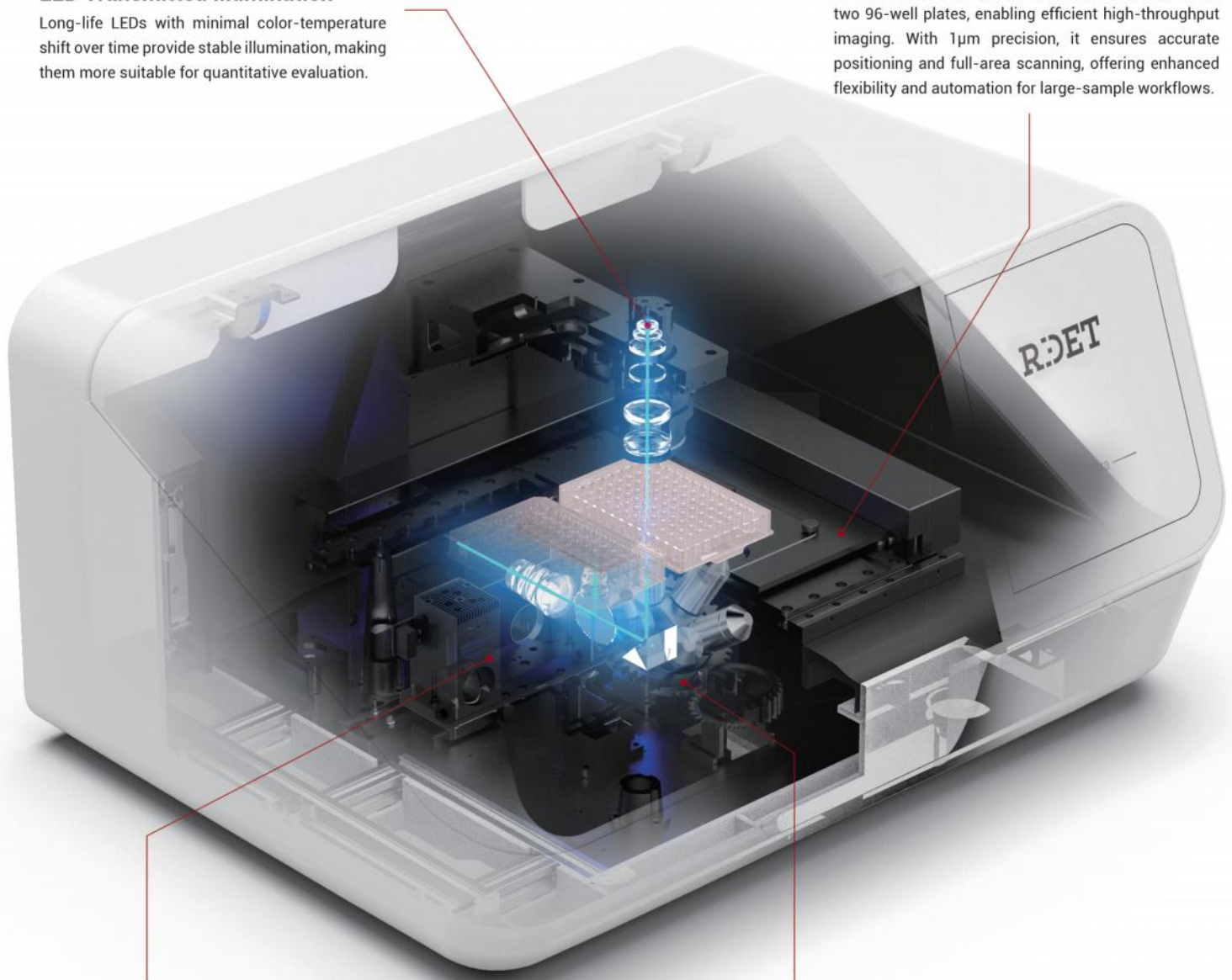
Flexible Adaptability: Supports applications from basic imaging to advanced analysis in research, drug screening, and clinical studies.

LED Transmitted Illumination

Long-life LEDs with minimal color-temperature shift over time provide stable illumination, making them more suitable for quantitative evaluation.

Large Motorized XY Stage

X-Ultra features a large motorized XY stage that holds two 96-well plates, enabling efficient high-throughput imaging. With 1 μ m precision, it ensures accurate positioning and full-area scanning, offering enhanced flexibility and automation for large-sample workflows.



High-Brightness LED Excitation Illumination

X-Ultra features a modular fluorescence excitation system, allowing flexible 400–700+ nm excitation by swapping modules, not the entire light source. This ensures efficient imaging, stable light output, and accurate fluorescence quantification.

Motorized Objective Turret and Z-Axis

X-Ultra features a five-position motorized turret for fast, stable switching between phase contrast, dry, and oil objectives. The 0.1 μ m precision Z-axis supports high-resolution 3D imaging and accurate structural reconstruction.

PLATE SCANNING

Intelligent Batch Imaging · Full-Plate Scanning in Three Steps

Define imaging settings once—such as exposure, focus, and channels—and apply them to the entire plate with a single click, enabling one-time setup and full-plate execution with maximum efficiency.

Customizable Range, Flexible Scanning

Supports whole-plate or Region of Interest (ROI) scanning, allowing the selection of target wells or sampling locations tailored to experimental requirements.

Consistent Conditions, Comparable Data

Uniform settings reduce human error for reliable results.

3 Simple Steps

① Set → ② Select → ③ Scan

Fully automated, no supervision needed.

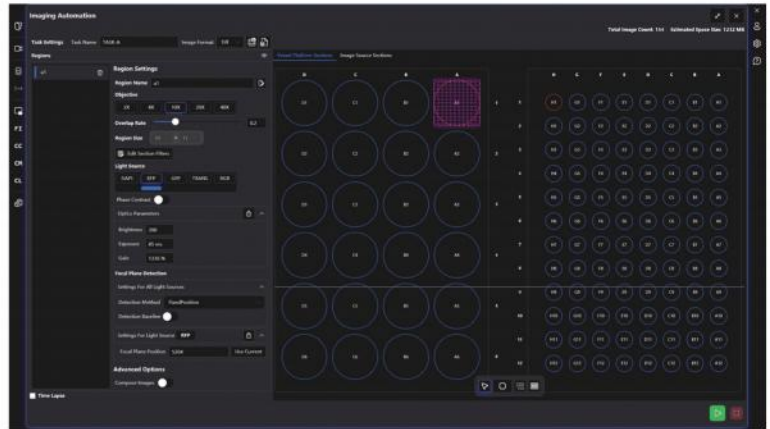


IMAGE STITCHING

High-Resolution Panoramic Image Stitching

X-Ultra delivers high-precision image stitching, creating ultra-high-resolution panoramic images that combine fine detail with wide-area coverage.

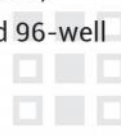
Precise Positioning at High Magnification

Enables stitching under high-power objectives for detailed spatial mapping.



Wide Coverage with High Clarity

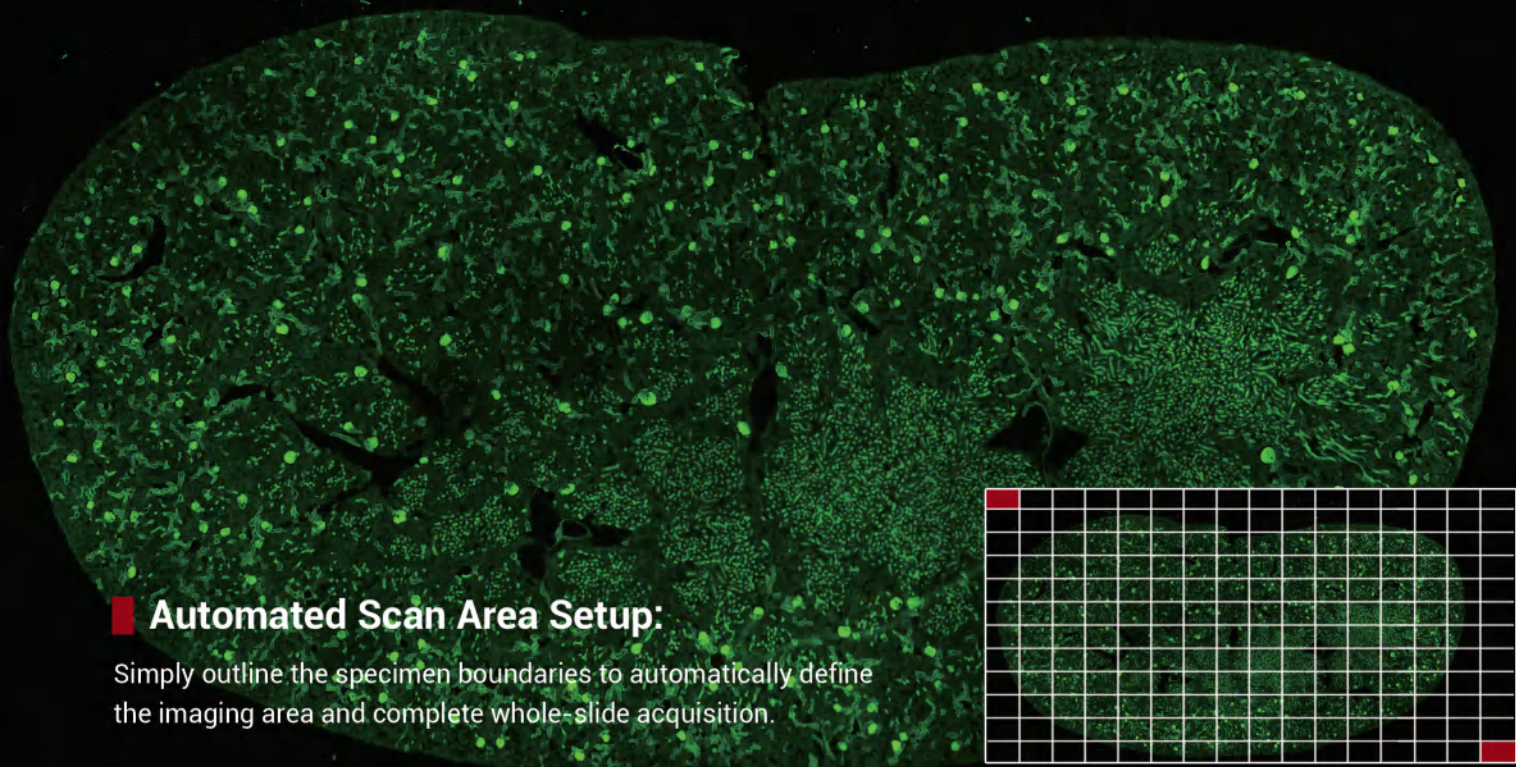
Suited for tissue sections, stem cell colonies, and 96-well plate analysis.



One-Click Export

Streamlines acquisition and export of multi-well regions for efficient data handling.



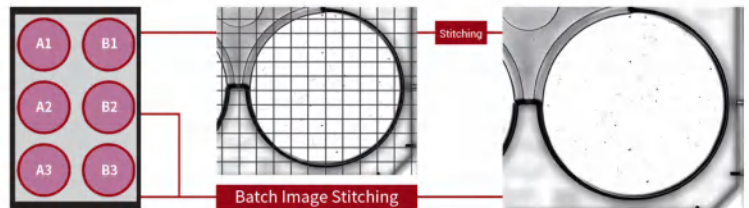


■ Automated Scan Area Setup:

Simply outline the specimen boundaries to automatically define the imaging area and complete whole-slide acquisition.

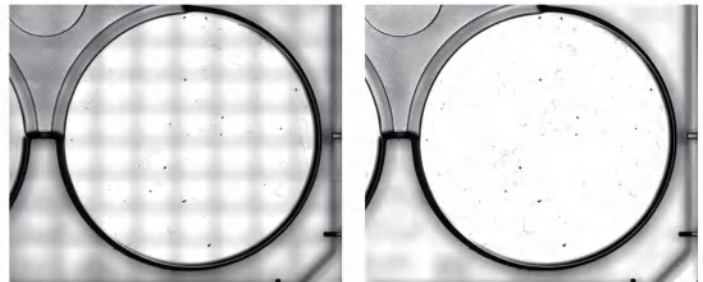
■ Automated Multi-Well Stitching

Effortlessly acquire target images in minimal operation time, without compromising magnification or resolution.



■ High-Precision Shading Correction Algorithm

Equipped with a high-precision shading correction algorithm, the system eliminates brightness variations between fields, ensuring seamless stitching, uniform illumination, and reliable quantitative analysis.

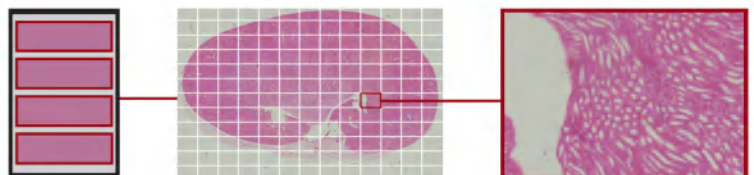


Without shading correction: uneven illumination causes shadows at stitching boundaries

With shading correction: boundary shadows are removed to ensure uniform brightness across stitched images

■ Supports continuous slide scanning

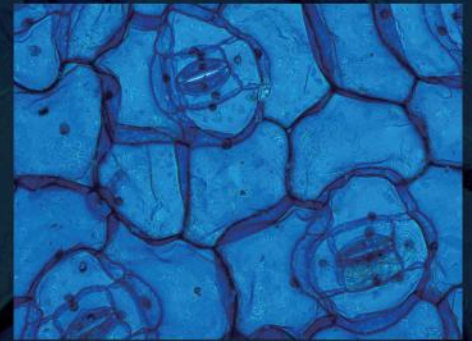
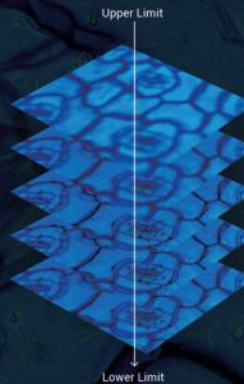
With the X-Ultra wide-field image viewer, images can be saved at full resolution, allowing detailed examination through zooming without loss of clarity.



HIGH QUALITY IMAGES

Z-Stack Imaging

X-Ultra captures multiple focal planes and extracts optimal pixels for clear imaging of thick samples. Advanced algorithms ensure ideal composite results across various sample types.



Full-Field Focus Stacking

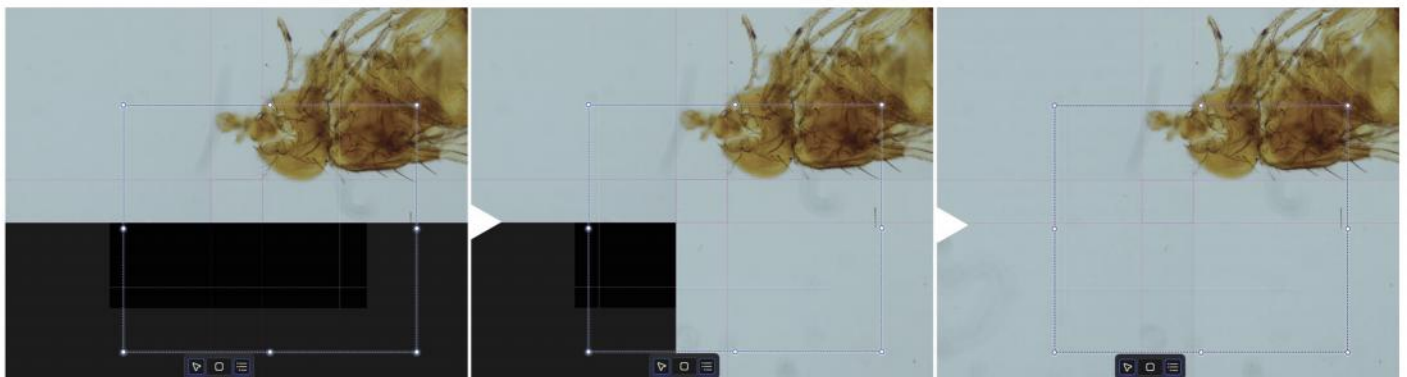
Ideal for samples requiring 3D structural information, it effectively compensates for focus deviations caused by tilted or inverted tissue sections, while fully supporting the imaging and analysis of 3D culture models such as organoids.

a. Large-Area Image Stitching + Autofocus

Precise focusing even for uneven or distorted specimens. Autofocus is supported during the acquisition of image stitching data. As the stitching area increases, specimen morphology is more likely to cause focus deviation; however, the autofocus feature ensures the capture of sharply focused images. Additionally, it effectively reduces the total number of images required for acquisition.

b. Large-Area Image Stitching + Z-Stack

Z-Stack imaging is performed at all points within the stitching area to acquire comprehensive datasets. Data from various focal planes (heights) can be batch-stitched and accessed as a single dataset, enabling the analysis of 3D information based on the high-resolution stitched data. Through full-frame focus stacking, large field-of-view stitched images with pristine clarity and focus can be generated.



LIVE-CELL IMAGING

■ The X-Ultra Imaging System can be equipped with a dedicated live-cell Incubator, suitable for long-term observation and high-resolution continuous dynamic imaging of cells under culture conditions.

The X-Ultra imaging system can be equipped with a dedicated live-cell incubator to enable long-term observation and high-resolution dynamic imaging of cells under culture conditions. The incubator supports precise control of temperature, CO₂, and O₂ (optional), providing a stable imaging microenvironment under various conditions such as normoxia or hypoxia (optional), making it highly suitable for rigorous experiments like hypoxia assays. Environmental parameters can be independently configured and monitored in real-time. This intuitive operation works synergistically with the X-Ultra's imaging capabilities to meet the stringent environmental and optical performance requirements for dynamic experiments, including cell migration, proliferation, differentiation, and drug response.



■ LiveCore Series Live-Cell Incubator

Featuring a semi-enclosed chamber design, it maintains a clean and stable imaging environment through mild internal positive pressure, and achieves uniform, precise temperature control via non-contact gas heating. The system allows for independent regulation of CO₂ and O₂ (optional), flexibly supporting various experimental conditions such as normoxia and hypoxia. Additionally, it provides real-time monitoring of three critical parameters: temperature, CO₂, and O₂ (optional), ensuring that cells remain in a controllable, reliable, and traceable culture environment throughout long-term imaging and dynamic experiments.

■ Time-Lapse Imaging

The X-Ultra features powerful time-lapse imaging capabilities. Users can pre-set the target areas and time intervals, and the system will automatically acquire time-series images throughout the entire process, seamlessly generating dynamic videos upon completion. Supporting both fluorescence and brightfield modes, it presents experimental processes through high-quality videos, making scientific analysis more intuitive and efficient.

a. One-Click Setup, Fully Automated

Requiring no manual intervention throughout the process, it automatically completes time-lapse imaging for every well within a multi-well plate.

b. Multi-Dimensional Acquisition, Flexible and On-Demand

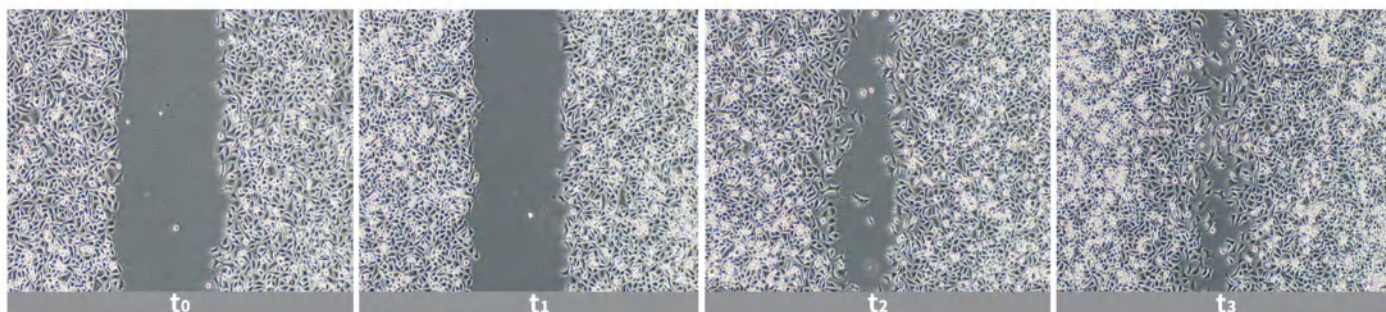
Capable of acquiring single-plane or Z-Stack time-series images to accommodate diverse experimental requirements.

c. Autofocus for Clear Imaging in Every Frame

Automatic focusing across all channels and target fields of view (FOV), ensuring stable and consistent imaging quality.

d. Traceable Timelines, Reliable Data

Every image frame includes a timestamp and metadata, facilitating subsequent analysis and presentation.



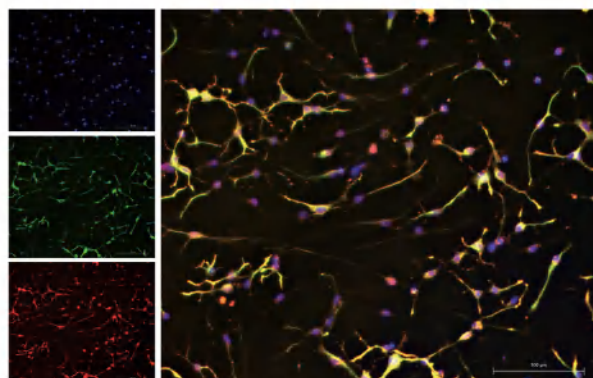
■ Real-Time Video Recording

Real-time video recording captures the transient responses of cells at high speeds, accurately documenting rapid signal changes such as calcium fluxes to ensure no critical dynamics are missed. It is highly suitable for monitoring cell activation, receptor responses, and immediate drug effects, providing clear and continuous video evidence for the study of fast-occurring events.



■ Real-Time Multi-Channel Overlay

Achieve multi-channel acquisition and real-time overlay with a single click. Adjustments can be made after acquisition without affecting the settings of other channels.



2D DECONVOLUTION

■ Proprietary Iterative Deconvolution Image Restoration Engine

The X-Ultra is equipped with an iterative deconvolution image optimization algorithm based on statistical modeling. It is designed to suppress out-of-focus blur and background noise generated during widefield imaging. By incorporating a known point spread function (PSF) and optical imaging constraints, it performs iterative optimization to improve fine detail and contrast while controlling noise amplification.

This algorithm is highly applicable to scenarios such as the observation of organelle structures, optical sectioning of thick specimens, and multi-channel fluorescence image analysis, providing a more robust imaging foundation for subsequent quantitative analysis.

■ Core Advantages

- Iterative Optimization Driven by Statistical Modeling

Based on a Bayesian statistical framework and Poisson noise models, it models the image degradation process and performs multiple rounds of iterative calculations via maximum likelihood estimation (MLE), achieving optimal restoration of image details under constrained conditions.

- Optical Physics-Based Constraint Mechanism

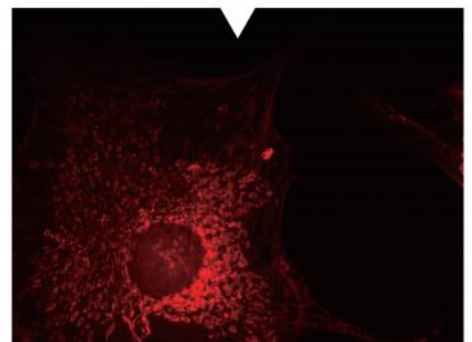
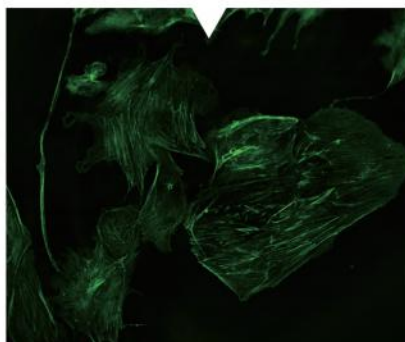
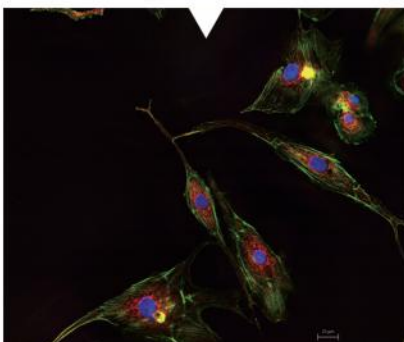
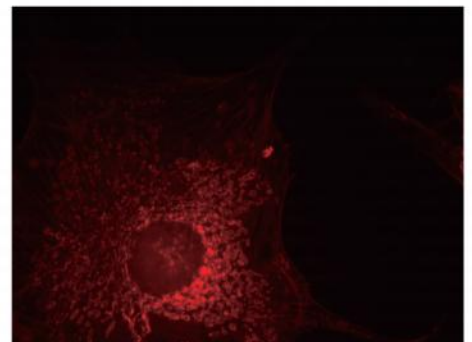
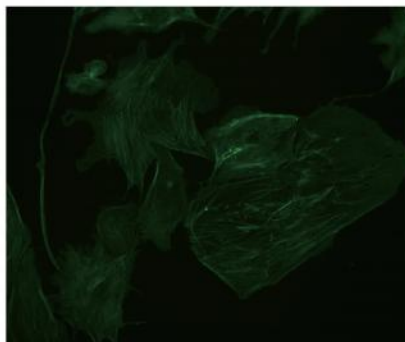
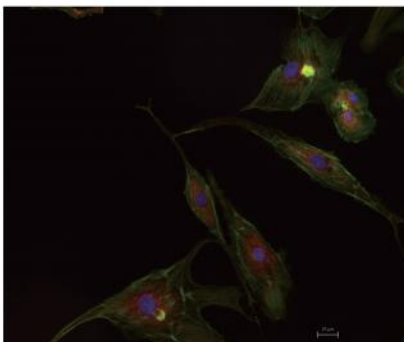
Introduces physical models of optical imaging and known point spread functions (PSF) as optimization boundary conditions, ensuring that restored results remain consistent with real imaging behavior

- Convergence Control and Stable Computation

Through parameter constraints and iterative control strategies, it mitigates the risks of over-enhancement and ringing artifacts, maintaining a precise balance between detail enhancement and noise control to improve the operational stability of the algorithm.

- GPU Parallel Acceleration Architecture

Optimized with parallel computing specifically for high-resolution images and multi-batch datasets, it significantly improves algorithm execution efficiency to meet the demands of long-term or large-scale imaging data processing.



FROM EFFECT TO INSIGHT, IN ONE PLATFORM

Aggregation Module

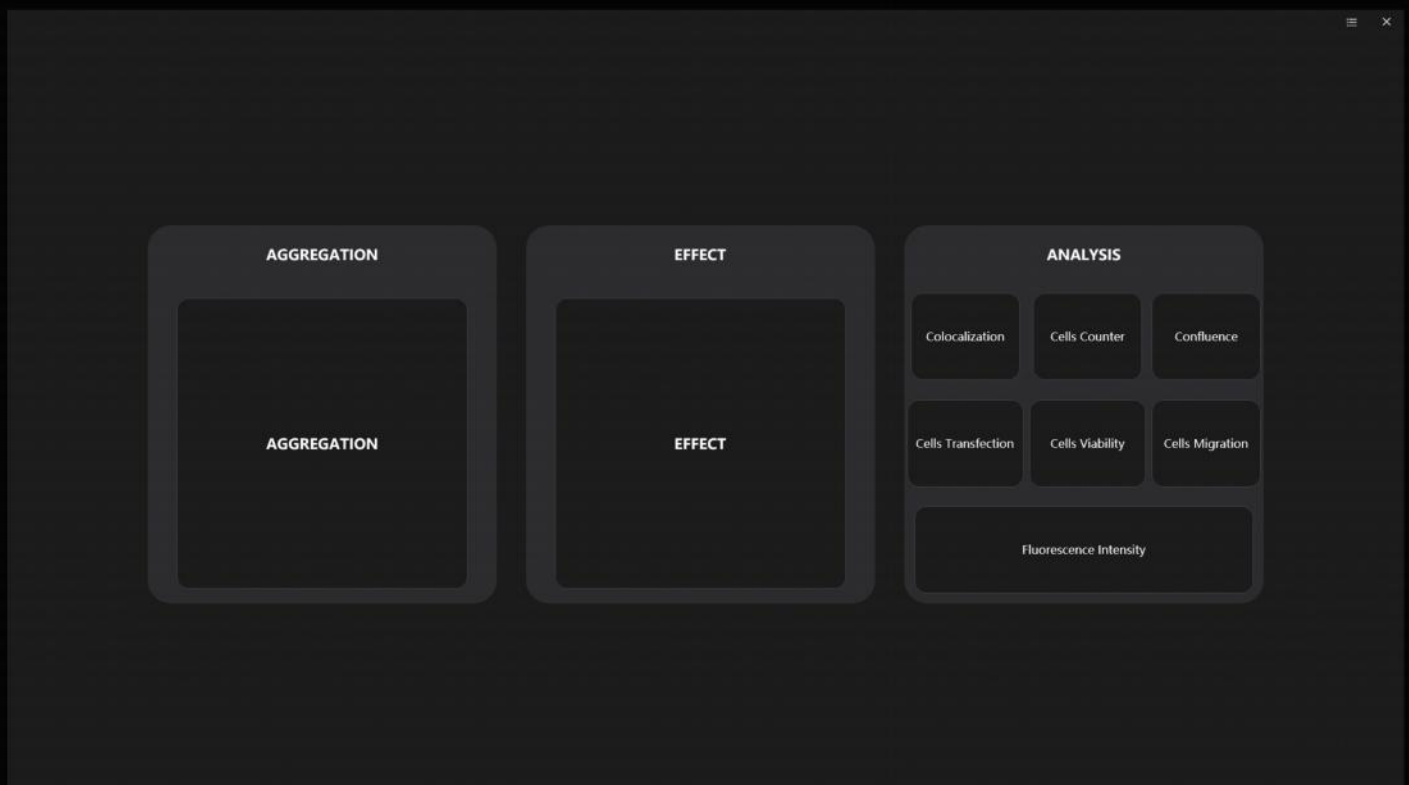
The Batch Image Processing module supports large-area image stitching, projection image generation, batch parameter adjustment, and batch merging, along with one-click video file generation. Through automated processing workflows, it maximizes the efficiency of organizing and exporting multi-sample images, fulfilling the post-processing demands of high-throughput experimental data.

Effect Module

The Effects Module integrates multiple image-processing functions, including black/white balance, gamma adjustment, brightness and contrast optimization, deconvolution enhancement, and cropping. It enables fine-tuned optimization of the image's light-and-dark hierarchy and detailed structures, enhancing overall resolution and clarity. This results in more stable and pristine image presentations, fully meeting the requirements for post-acquisition optimization and data analysis in scientific imaging.

Analysis Module

The X-Ultra Cell Analysis Module provides automated and quantitative analytical capabilities for multiple types of experiments, covering the complete workflow from basic cell counting to advanced fluorescence analysis. This enables researchers to rapidly acquire reliable data and accelerate the experimental process.



EFFECT

a. Black and White Balance

Corrects the highlight and shadow ranges of the image, rendering details clearer and visual layers more distinct.

b. Gamma Adjustment

By adjusting the tonal distribution of the image, it optimizes the overall visual presentation and enhances faint details.

c. Brightness Adjustment

Increases or decreases the overall brightness of the image.

d. Contrast Adjustment

Enhances the tonal differences between light and dark areas in the image, making detail boundaries more prominent.

e. Deconvolution

Utilizes algorithms to restore blurred pixels, improving resolution and clarity.

f. Cropping

Rapidly selects the target region of interest (ROI) while masking irrelevant background.



① Single Image Settings



② Copy Parameters



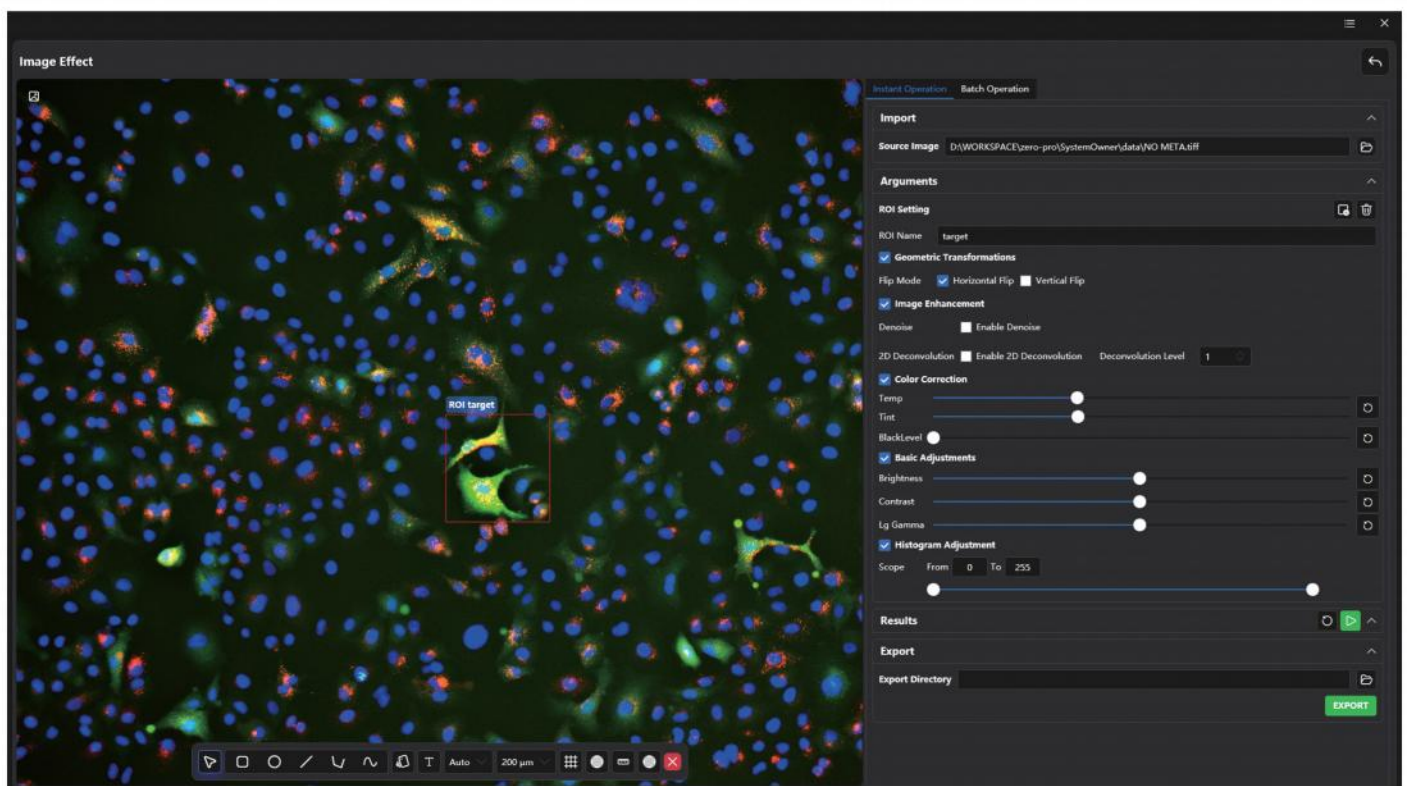
③ Batch Import



④ Automated Processing



⑤ Output Results



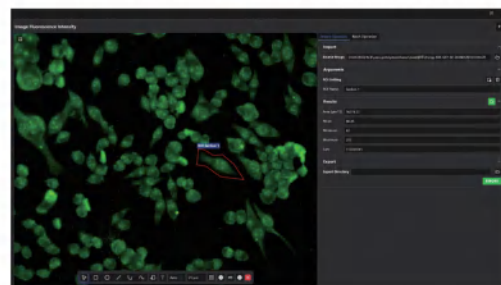
ANALYSIS

The X-Ultra Cell Analysis Module provides automated and quantitative analytical capabilities for a wide range of experiments, covering the complete workflow from basic cell counting to advanced fluorescence analysis. It enables researchers to obtain reliable data quickly and accelerate experimental progress.

■ Fluorescence Intensity Analysis

The Fluorescence Intensity Analysis module provides a fast and reliable solution for the quantification of scientific images. It supports single-image analysis, automated batch analysis, and ROI (Region of Interest) analysis, making it highly suitable for diverse experimental scenarios including cellular fluorescence, tissue sections, and biomaterials.

- More accurately evaluate experimental outcomes (e.g., fluorescence labeling efficiency, protein expression changes)
- Improve data reproducibility and reliability
- Significantly reduce analysis time and increase research efficiency
- Quickly obtain publication-ready visualizations and charts



■ Cell Counting, Transfection Rate, and AO/PI Cell Viability Counting

Based on intelligent image recognition algorithms, the X-Ultra fully automated microscope performs rapid, automated quantitative analysis of cell counts, transfection efficiency, and cell viability, significantly enhancing experimental efficiency and data reliability to meet diverse research needs. The entire counting workflow is fully automated and requires no manual intervention, which drastically improves operational efficiency. Equipped with advanced AI algorithms, it can accurately identify and count cells, ensuring high accuracy and consistency even against complex backgrounds. Whether dealing with live cells, dead cells, or multi-channel fluorescence-labeled cells, the X-Ultra rapidly provides reliable counting results, making your experiments more efficient and precise.



Cell Count Statistics



Cell Area Parameters

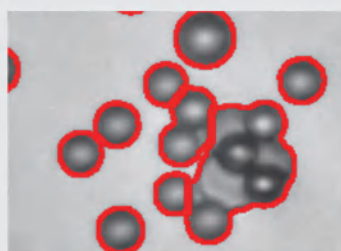
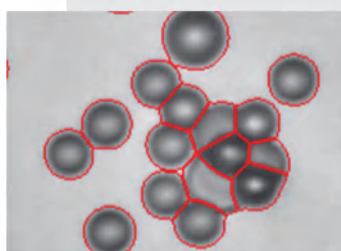


Cell Length and
Width Measurement

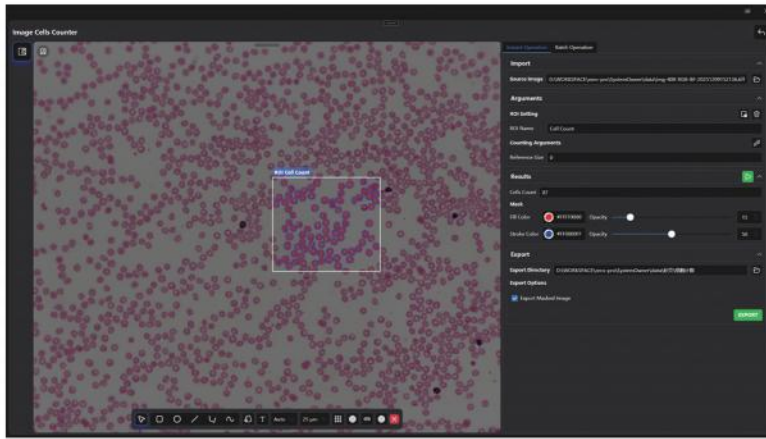


Cell Fluorescence
Intensity

■ AI-Based Counting vs. Traditional Algorithms



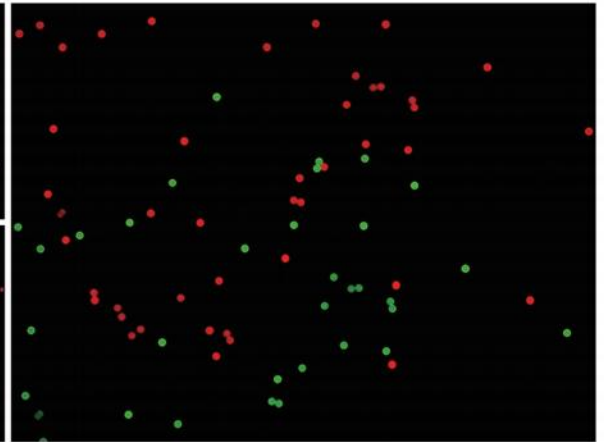
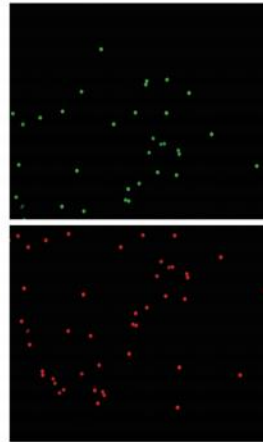
Traditional algorithms struggle to accurately distinguish clustered or overlapping cells.



Supports Multiple Modes

Accurate contour extraction and quantification – even in low-contrast conditions, with minimal setup.

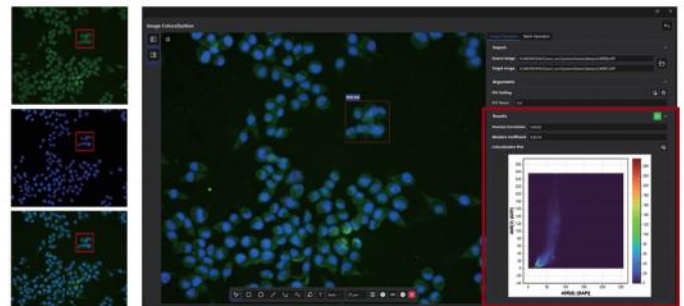
- Automated Statistics – reduced bias and time
- High Compatibility – brightfield, fluorescence, multi-channel
- Batch Analysis – high-throughput processing
- Visualized Export – ready for publication



Colocalization Analysis

Quantifies spatial overlap in fluorescence images for reliable colocalization analysis.

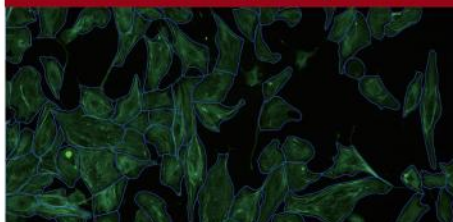
- Quantitative assessment of molecular overlap
- Supports PCC and Manders' coefficients (M1 / M2)
- Accurate analysis at global and local levels
- Batch processing for improved efficiency



* Supports mainstream international colocalization metrics: Pearson's Correlation Coefficient (PCC) and Manders' Overlap Coefficients (M1 / M2).

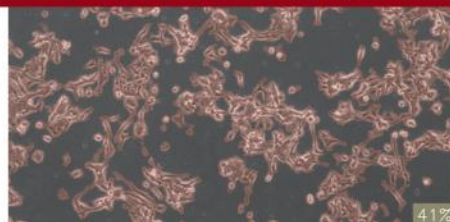
Seamless Integration from Acquisition to Analysis

Cell Counting Analysis



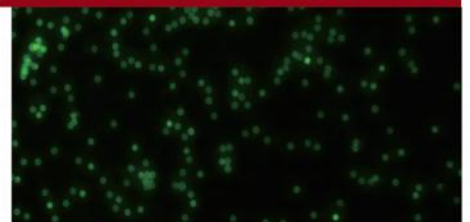
Performs rapid, automated counting of stained cells, with support for custom threshold settings.

Cell Confluence Analysis



Confluence is calculated in cell experiments to assess cell proliferation capacity.

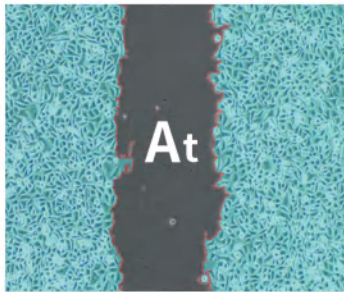
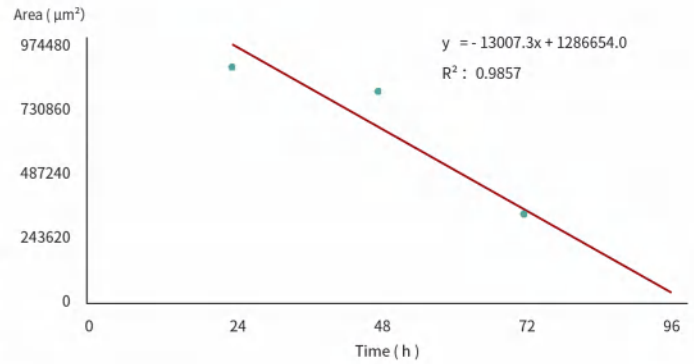
Transfection Efficiency Analysis



Transfection efficiency is quantified using both brightfield and fluorescence images.

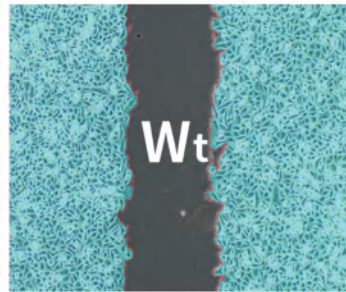
Scratch Assay Analysis Module

The X-Ultra fully automated microscope supports high-precision imaging for scratch assays, automatically capturing images at preset time intervals to precisely document the cellular repair process. With a single click, it automatically generates area-over-time curves, enabling users to intuitively analyze the dynamic changes in cell migration and wound healing. This functionality renders cell behavior research more efficient and precise, providing robust quantitative data support.



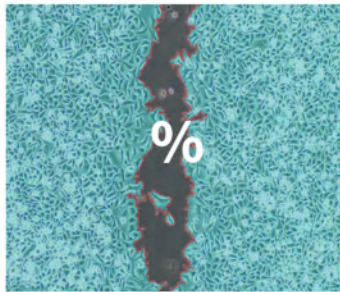
Wound Area

Automatically identifies the scratch region and precisely quantifies the unhealed area.



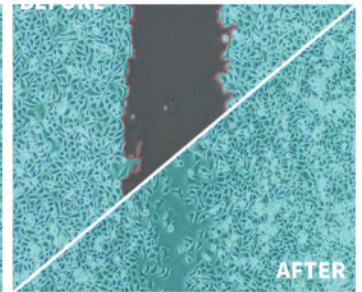
Wound Width

Utilizes multi-point measurement to rapidly acquire average width data.



Migration Rate

Calculates the wound closure percentage in real time, intuitively reflecting cell migration efficiency.

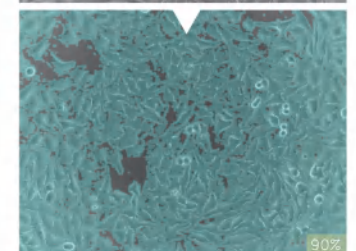
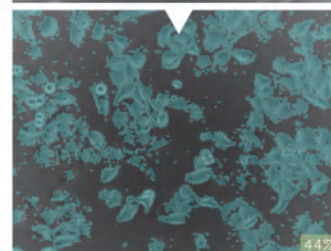
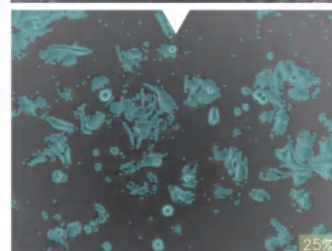
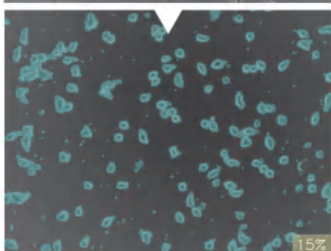
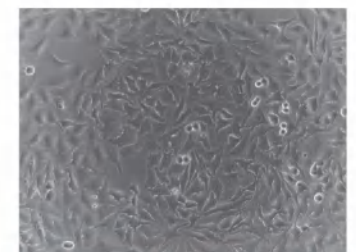
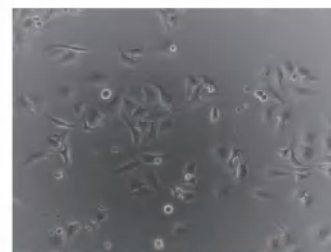
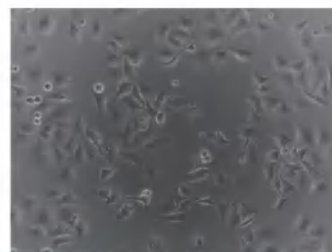
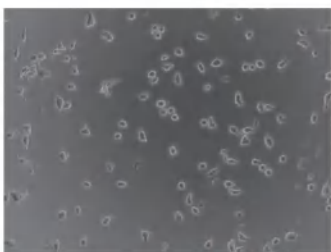
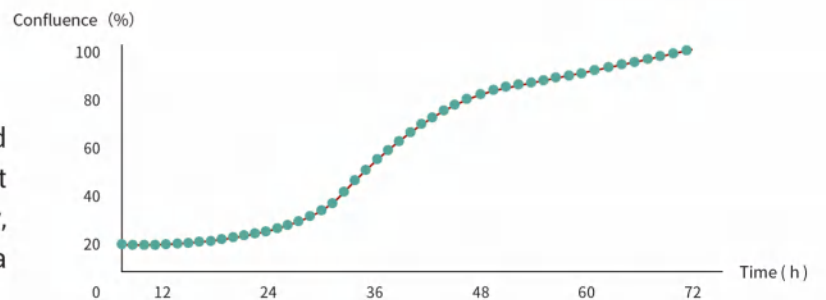


Wound Closure Rate

Rapidly evaluates cellular repair capabilities and supports comparison across different treatment groups.

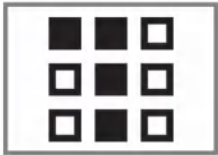
Confluence Analysis

Confluence measurement enables rapid and accurate identification of image regions that meet specific criteria. In studies of cell growth, viability, and proliferation, the percentage of confluence is a crucial metric.



AGGREGATION

Integrates functions including large-area image stitching, projection image generation, batch merging, batch image parameter adjustment, and video generation. It realizes the integrated automated processing and rapid export of multi-sample images, fulfilling the data organization and presentation requirements of high-throughput experiments.



Large-Area Image Stitching



Projection Image



Batch Merge



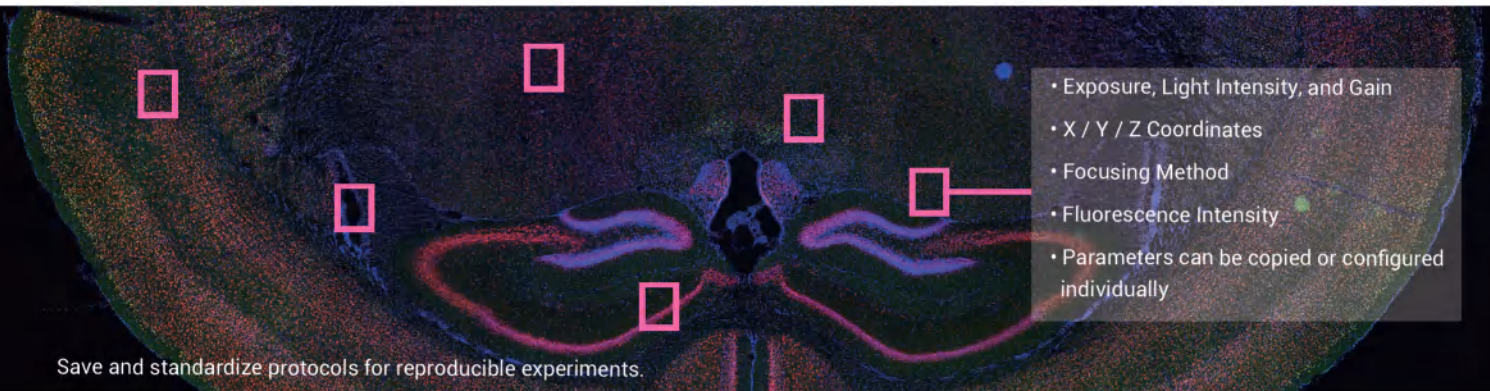
Batch Image Adjustment



Video Generation

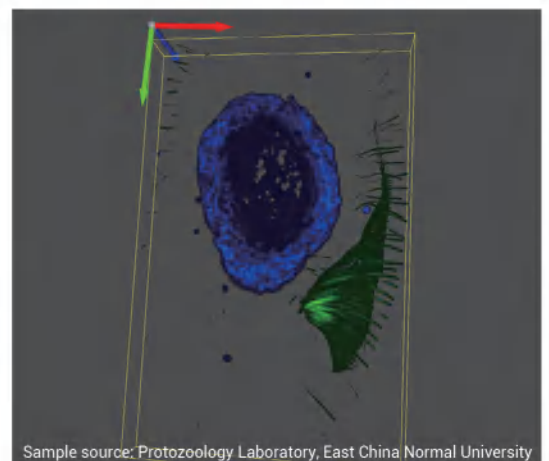
Comparative Experiments Under Identical Conditions

The system can save parameter settings for reproducible experiments, facilitating quick retrieval and the exact replication of experimental conditions. Key parameters, including fluorescence channel selection, objective magnification, exposure time, light intensity, gain, and imaging coordinates, are comprehensively recorded. This ensures that even with different operators, imaging is conducted under identical conditions, significantly minimizing the impact of human error on the results. Furthermore, the system can precisely restore historical imaging configurations, supporting the accurate verification and tracking of changes in experimental subjects across



3D IMAGE RECONSTRUCTION

With a single click, Z-stack images can be reconstructed into crisp 3D models. Users can freely rotate and observe the three-dimensional structures from various angles, and save the results as dynamic videos to facilitate further analysis.



MODULAR CONFIGURATION

Objective Specifications

Product Name	Part Number	NA	WD (mm)	Phase
(01) Plan Achromat 4X	0500014	0.13	10.75	Phase
(02) Plan Achromat 10X	0500015	0.25	7.45	Phase
(03) Plan Achromat 20X	0500078	0.4	6.92	Phase
(04) Plan Achromat 20X	0500016	0.4	6.92	non-Ph
(05) Plan Achromat 40X	0500017	0.65	2.74	non-Ph
(06) Plan Fluorite 4X	0500135	0.13	18.95	non-Ph
(07) Plan Fluorite 20X	0500136	0.45	6.5-7.6	non-Ph
(08) Plan Fluorite 40X	0500127	0.65	1.79	non-Ph
(09) Plan Fluorite 40X	0500148	0.65	1.79	Phase
(10) Plan Fluorite 60X	0500057	0.75	1.28	non-Ph
(11) Plan Fluorite 100X	0500056	1.27	0.14	non-Ph
(12) Plan Apochromat 2X	0500070	0.08	6.1	non-Ph
(13) Plan Apochromat 40X	0500137	0.95	0.15	non-Ph
(14) Plan Apochromat 60X	0500076	1.25	0.14	non-Ph

Adapter Specifications

Slides	Petri Dishes	Flasks
0300184  Adapter, Holds two standard microscope slides	0300212  Adapter, Holds four 35mm Petri Dishes	0300217  Adapter, Holds one Nunc T-25 Flask
0300214  Adapter, Cell Counting Chamber	0300211  Adapter, Holds four 38.7mm Petri Dishes	0300204  Adapter, Holds one Greiner / BD T-25 Flask
0300208  Adapter, Holds two standard microscope slides(with Clamps)	0300210  Adapter, Holds two 60mm Petri Dishes	0300213  Adapter, Holds two 25cm T-flasks
0300524  Adapter, Holds four standard microscope slides(with Clamps)	0300209  Adapter, Holds one 100mm Petri Dish	0300216  Adapter, Holds one T-75 Flask
	0300206  Adapter, Holds one 60mm Petri Dish	

*More optional accessories are available. Please inquire for details.

TECHNICAL SPECIFICATIONS



Hardware	Description
Model	X-Ultra, X-Ultra I, X-Ultra II, X-Ultra ED
Optical system	Infinity optical system with 45 mm parfocal distance; RMS thread objectives
Imaging modes	Fluorescence, brightfield, color brightfield and phase contrast; single or multi-color imaging, Z-stack scanning, and video capture
Fluorescent modules (optional)	Equipped up to 4 fluorescence channels and integrated solid-state LED fluorescent modules (>50,000-hour lifetime), supporting multiple excitation / emission combinations <ul style="list-style-type: none"> • DAPI (Ex 365 / Em 450 nm) • GFP (Ex 470 / Em 525 nm) • RFP (Ex 525 / Em 595 nm) • Texas Red (Ex 585 / Em 630 nm) • Cy5 (Ex 625 / Em 692 nm) • CFP (Ex 450 / Em 505 nm) • YFP (Ex 490 / Em 540 nm)
Objectives (optional)	5-position motorized turret; multiple high-quality long working distance (LWD) objectives available
Condenser & focusing	60 mm condenser with 4-position motorized turret; motorized fine focusing system
Camera	High-sensitivity 5 MP (2448×2048 pixels), 3.45 μm / pixel, available in monochrome or color versions
Image formats	24-bit BMP, TIFF, PNG, JPEG Video formats: MP4, AVI
Power supply	AC 220V, 50 Hz
XY stage	Motorized stage; travel range 178 × 138 mm; submicron precision; compatible with various vessel adapters
Output ports	4 × USB ports, 1 × HDMI port, 1 × LAN port; built-in 5G Wi-Fi

Software	Description
Image processing	Basic functions: Grid, scale bar, image annotation, and image adjustment Optional functions: Image stitching, large-area scanning, well plate scanning, cell counting, cell co-localization analysis, fluorescence intensity analysis, fluorescence ratio analysis, time-lapse imaging, live-cell imaging (requires Live Cell Culture Module), and batch processing
Sample capture	Overexposure alert; repeated sample capture time < 2 s

LiveCore	Description
Temperature control range	RT+5-50°C
CO2 control range	0 %-20%
O2 concentration control range	0.1%-20% (optional)
Relative humidity control	70%-90% (RT+5-37 °C)
Temperature accuracy	±0.1°C
Gas input pressure	0.1-0.25 MPa
Power supply	AC 220 V 50 / 60 / Hz
Compatible models	X-Ultra, X-Ultra I, X-Ultra II, X-Ultra ED

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