



# Flea-n

## Cell Imaging System

**Sleeker. Simpler. Smarter**

A digital & intelligent cell imaging system  
An Ultra - advanced Sidekick for Cell Culture Labs  
Deliver highly dependable, repeatable cell  
confluence assays and numerous other experiments

**R:DEET**

# Flea-n

Propel Your Research to New Heights of Efficiency

Loaded with a high - performance CMOS camera and an upgraded fluorescence module, it combines brightfield, phase contrast, fluorescence, and color imaging in one. Tailored for scientific research. Intuitive touchscreen, quick auto - focus, and smooth electric objective switching. Simplifies observation, delivers clear images. Built - in cell confluence calc function. Ensures accurate, error - free analysis. Elevate your cell imaging with Flea - n.

## Lightning - Fast, Dead - on Cell Confluence Analysis!

Our built - in intelligent image analysis system dishes out accurate cell confluence results in a single second.



Cell Seeding



Cell Growth



Cell Confluence Analysis



Recording and Data Processing



Downstream Experiments

In the life science research arena, especially for cancer, stem, or other cell studies, long - term cell culturing and regular observation of morphology and confluence are key.

Here comes the Flea - n. It's crafted to supercharge your research. It offers a top - notch observation experience and consistent results. Flea - n streamlines cell growth checks and record - keeping. It evaluates confluence by a unified standard, guaranteeing experiment accuracy and high success in downstream work. Whether you're chasing a major discovery or refining your methods, Flea - n is your go - to.

The confluence module has three features:

### Improves Data Credibility

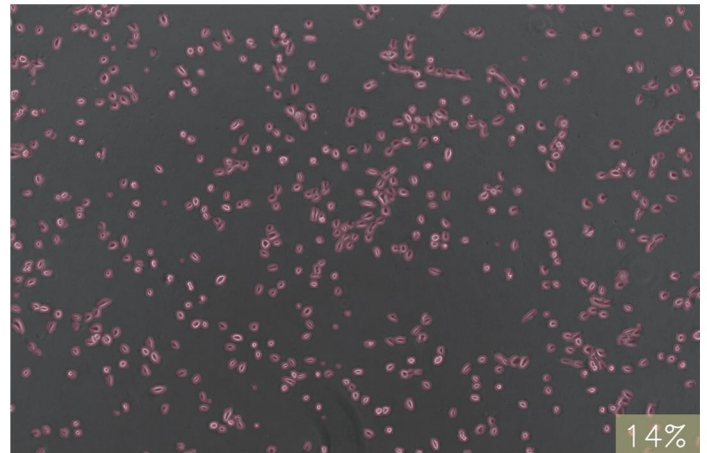
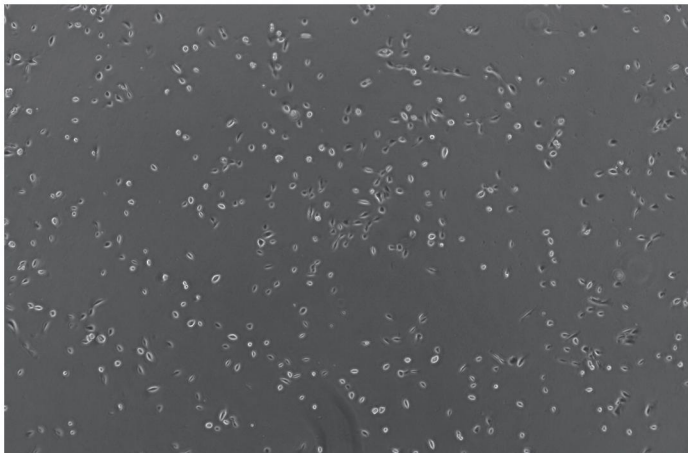
Powered by a cutting - edge, unified algorithm, our product offers seamless, automated analysis. Bid farewell to the inaccuracies of human - driven processes. We're setting the new standard!

### Slashes Verification Time and Effort

A standardized evaluation framework, applicable to different users and experimental environments, eliminating variable interference.

### Empower Long - Term Research Tracking

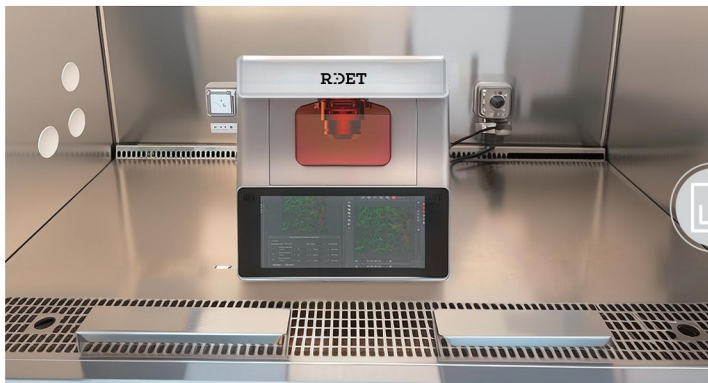
Process standardization and stable algorithm control guarantee data consistency.



# Ultra - simple, Ultra - precise: Unleash a World of Amazing Insights

## Touchscreen Design, Featuring One-touch Autofocus and Objective

- An intuitive software interface for easy observation and image acquisition.
- An electric Z-axis and an objective turret support for one-touch autofocus, and intelligent maintenance of the focal plane during objective switching to ensure precise imaging.
- Easy to operate and ready to use. No professional training needed.

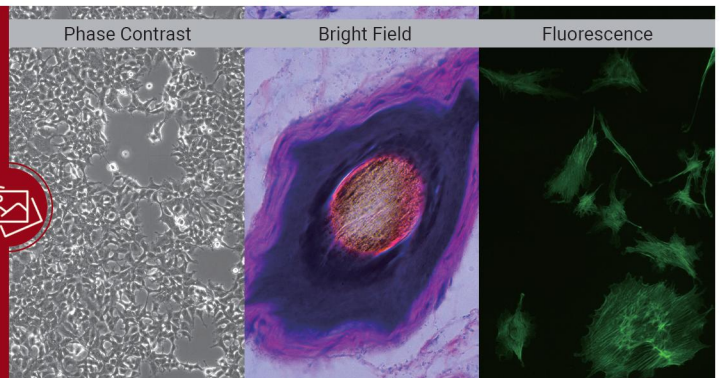


## Improves Biological Safety and Reduces risk of cross-contamination

The entire system can be placed in a biosafety cabinet to enable sterile observation and operation, reducing the risk of sample contamination while protecting the safety of operators. No eyepiece observation is needed, which greatly reduces the risk of cross-contamination and enhances overall biosafety protection.

## Supports Multiple Imaging Modes

Flea-n integrates multiple imaging modes such as bright field, phase contrast, color and fluorescence, and implements integrated imaging of fluorescence and transmitted light. Equipped with intelligent features such as autofocus, it effectively improves the efficiency of experiments while increasing the flexibility of experimental design to meet various application needs.



## Personalized Combination of Accessories

Flea-n enables personalized customization by providing flexibility in choosing cameras, objectives, and fluorescence modules based on experimental requirements, enhancing research precision and convenience.

# TECHNICAL SPECIFICATIONS

Hardware	Detailed Description
Light Source	Adjustable high-performance LED light source with a lifespan exceeding 50,000 hours
Image Acquisition	Fluorescence, transmitted light and color image acquisition modes
Comparison Method	Epifluorescence and transmitted light (bright field and phase contrast analysis)
Objective Turret	5-position electric control
Fluorescence Channels	Supports custom installation of up to 2 fluorescence modules simultaneously (multiple fluorescence modules available)
Condenser	60 mm long working distance condenser, 4-position aperture diaphragm
Stage	Fixed X-Y-axis stage, 250 mm x 200 mm; Optional adjustable mechanical stage
Integrated Display	10.1-inch high-resolution touchscreen LCD display (1920 x 1200 pixel resolution)
Camera System	High-sensitivity 3.2MP CMOS camera, pixel size: 3.45 $\mu\text{m}$
Output Port	4 x 2.0 USB ports, 1 LAN port; Wi-Fi (including 5G Wi-Fi) supported
Power	220V, 50 Hz AC power supply
Dimensions (D x W x H)	460 x 289 x 308 (mm)
Weight	13.7 KG

Product No.	Description
0400003	Flea-n Cell Imaging System color - main unit
0400002	Flea-n Cell Imaging System mono - main unit
0100001	Flea-n Cell Imaging System basic set (including a main unit and 10X & 20X phase-contrast objectives)
0300238	Adjustable mechanical stage for Flea-n
0500017	Plan 40X LWD, 0.65NA*2.74WD, CG 1 mm
0500076	FL 60X, 0.75NA*1.28WD, CG 1 mm
0500056	100X, Oil inverted plan fluorescence objective, CG 0.17 mm

For more information, please visit our official website.

