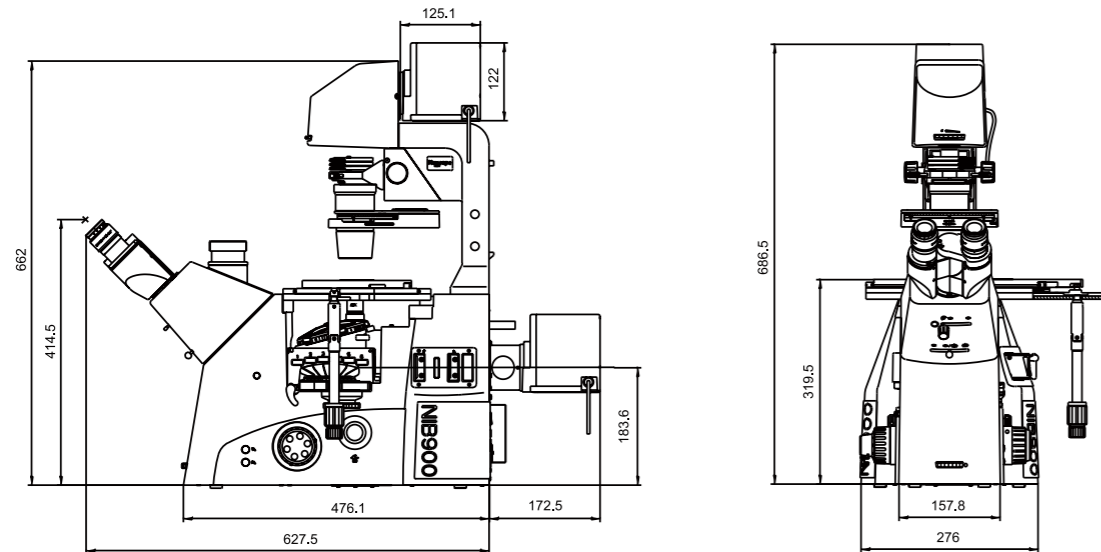


## NIB900 Series Inverted Microscope Specifications

		NIB910	NIB910-FL
Optical System		NIS Infinite Optical System	
Eyepiece		·SW10X/22 ·SW10X/25 ·EW12.5X/17.5 ·WF15X/16 ·WF20X/12	
Viewing Head		Seidentopf Trinocular Head(built-in bertrand lens),inclined at 45°, Interpupillary Distance 47-78mm	
Objective		N-iPLEN PH Plan S-APO Phase Contrast Objective/N-iPLEN Plan S-APO Objective	
Nosepiece		Sextuple Nosepiece with DIC Prism Slot	
Condenser		Long Working Distance Turret Condenser,NA0.55, WD=26mm, with 6 Modules for Phase Contrast, DIC and Brightfield	
Illumination	Transmitted illumination	Transmitted Illumination: Halogen Lamp 12V/100W or LED; Kohler Illumination	
	Epi-illumination	Epi-Illumination: HBO Mercury Lamp 100W	
Focusing System		Coaxial Coarse and Fine Adjustment, Moving Rang 9mm (up 2mm, down 7mm), Coarse Stroke 2mm per Rotation, Fine Stroke 0.2mm per Rotation	
Stage		3 Layers Mechanical Stage, Moving Range 130x85mm, Flexible Knob, available for Different Size Small Stage.	
Auxillary Stage		Terasaki Holder, Petri Dish Holder Ø38mm, Ø54mm	
Intermediate Magnification		Magnifications 1X, 1.5X	
Image Output		Various Image Output Ports Switched by Turnplate, including Left Port/Right Port/Eyepieces; Splitting Ratio: Left/Eyepiece=100/0, Right/Eyepiece=80/20 or 0/100	
Observing Method		Brightfield, Phase Contrast and DIC	Brightfield, Phase Contrast,DIC and Fluorescence
Epi-fluorescent attachment		-	6-Position Epi-fluorescent carousel with filters, Epi-fluorescent illumination system with HBO lamp NFP-1N 100W Intelligent Power Supply for HBO lamp.

Dimension

Unit: mm



**Nexcope**<sup>®</sup>  
Scientific research microscope

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http://www.nexcope.com

Invention Patent:CN200910099938.2

Invention Patent:CN201110140741.6

Invention Patent:CN201210005692.X

# INVERTED RESEARCH MICROSCOPE

**NIB900** SERIES  
INVERTED RESEARCH MICROSCOPE

**Nexcope**<sup>®</sup>  
Scientific research microscope

# Expansion Space to Meet the Needs of Extensibility Research

Help You Advance in Life Science Research

INVERTED RESEARCH MICROSCOPE



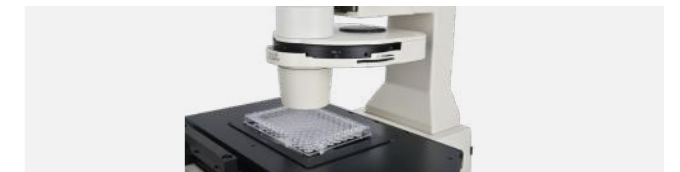
## Easy to Operate

### Efficient and Comfortable Observation

Easy to operate, powerful, flexible, and cost-effective; NEXCOPE uses scientific optical systems in the scientific research Inverted microscopes ---- NIS60 optical system provides a reliable guarantee for optical quality.

### Systematic Condenser Meets Various Test Requirements

Bright field, Phase Contrast, DIC multiple observation methods provide maximum choice for your experiment.



### Convenient Lighting Control

The NIB900 Scientific Inverted Microscope's control buttons are well laid out and easy to operate. They can simplify the workflow. For example, the transmission illumination switch and the epi-fluorescent illumination shutter control button are arranged on the right side of the machine.



### Switchable Intermediate Ratio

With a smooth turntable operation, the intermediate magnification can achieve 1x, 1.5x fast switching



## Two Models Available

### Basic Model NIB910 and Fluorescent Model NIB910-FL

Available in two models to meet your different needs: the transmissive NIB900 and the Reflective Fluorescent NIB900-FL. Transmitted illumination uses high-brightness halogen lamps (optional with LED illumination) to ensure consistent brightness throughout the field of view. The Epi-fluorescent HBO mercury lamp is with wide wavelength, ensuring efficient excitation in all bands.

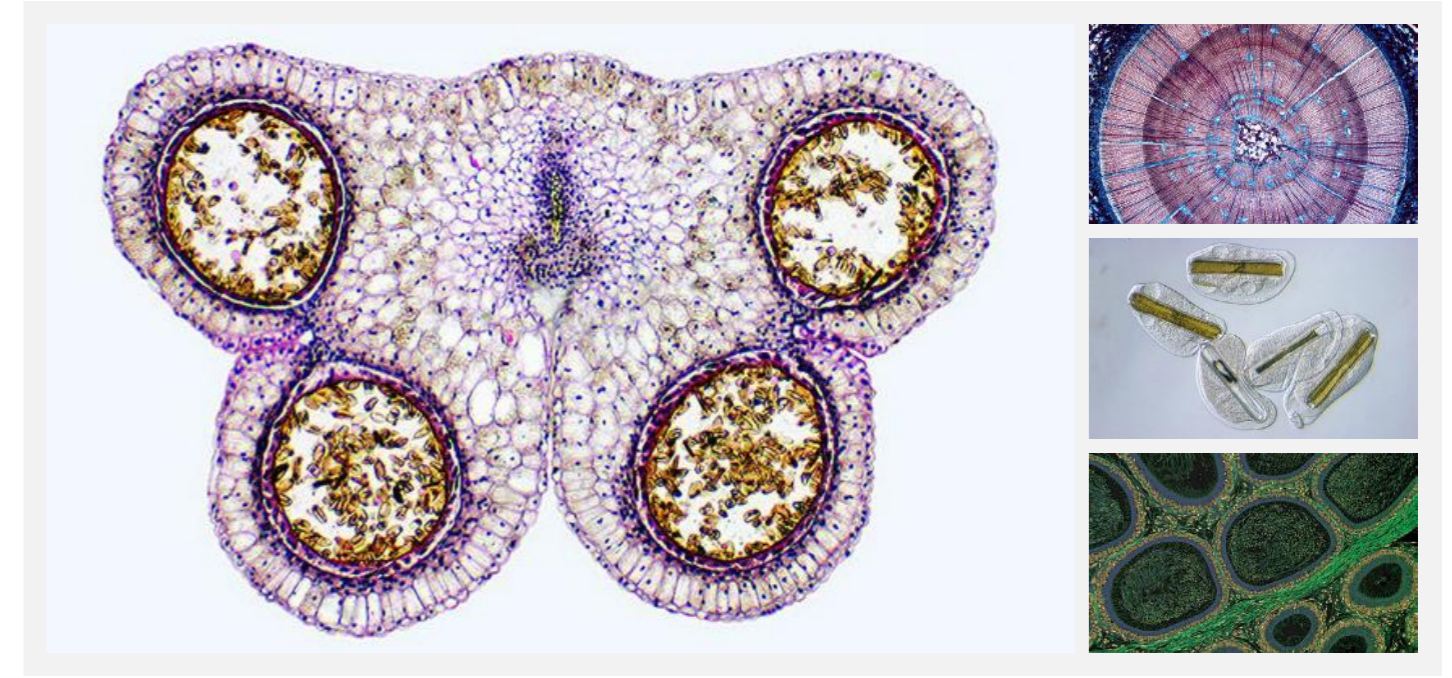


NIB910



NIB910-FL

# NIB910

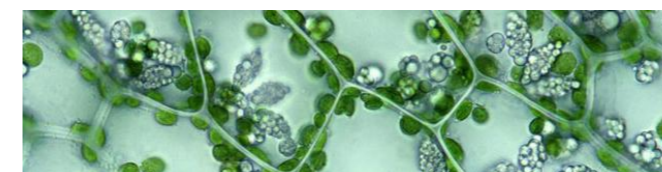


## NIB910 Basic Model

Modular Design Provides a Variety of Flexible Imaging Methods

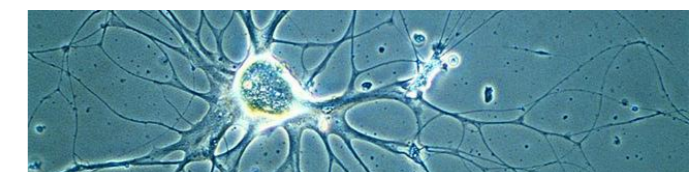
### Bright Field

Unique NIS infinite optical system, combined with the semi-apochromatic fluorescent objectives, effectively eliminates imaging problems such as curvature of field, chromatic aberration, spherical aberration, coma and other imaging problems. The image is brighter and all magnifications are available in higher super resolution and flatness.



### Phase Contrast

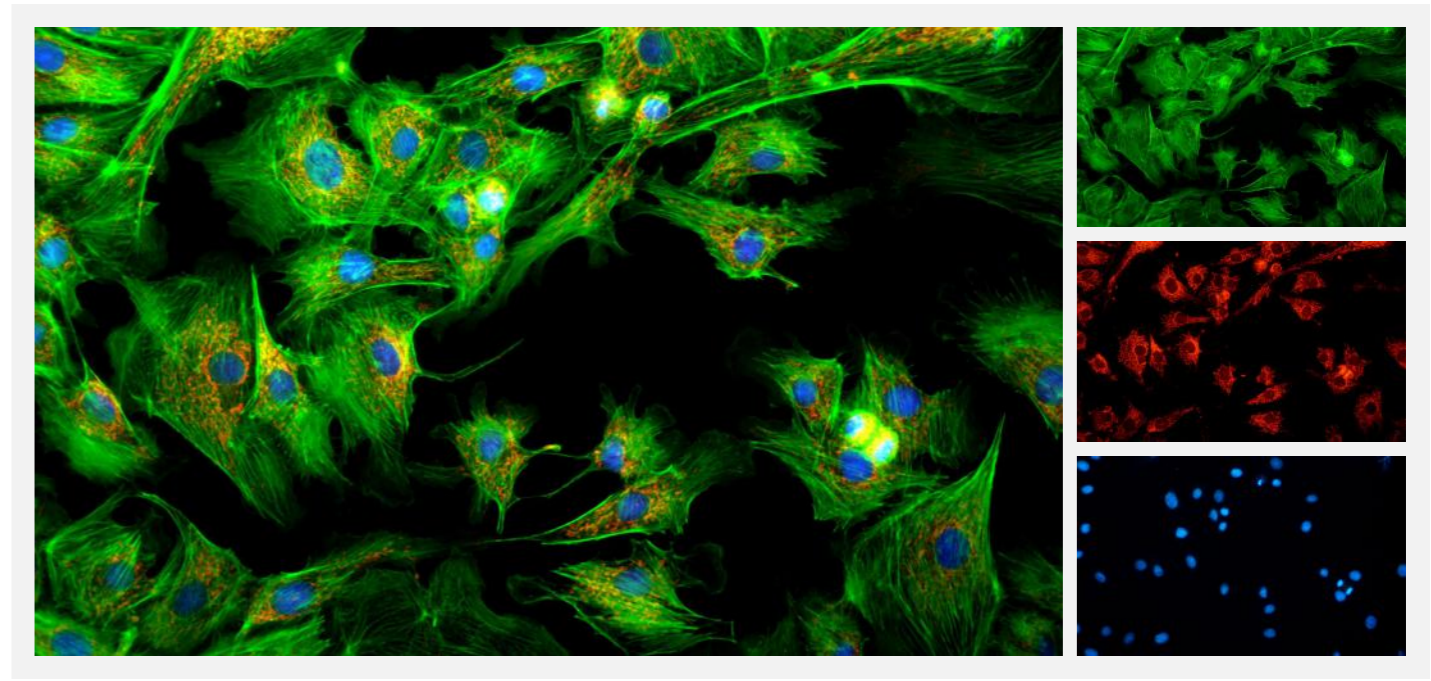
Phase contrast is an optical contrast technique that uses a phase contrast objective and a concentrating ring. High-efficiency halogen lamps provide a bright light source for the system and clear images even at high magnifications.



### Differential Interference (Contrast)

DIC is a cost-effective optical technology that does not require expensive optics. The embossing contrast uses only the bright field objective and two phase contrast adjustment sliders; For thicker samples, such as induced pluripotent stem cells, DIC provides a pseudo three-dimensional glare-free image. Halo is usually seen with traditional phase contrast observations. In addition, DIC can use glass culture dishes, which is a highly applicable observation technique.





## NIB910-FL Fluorescent Model

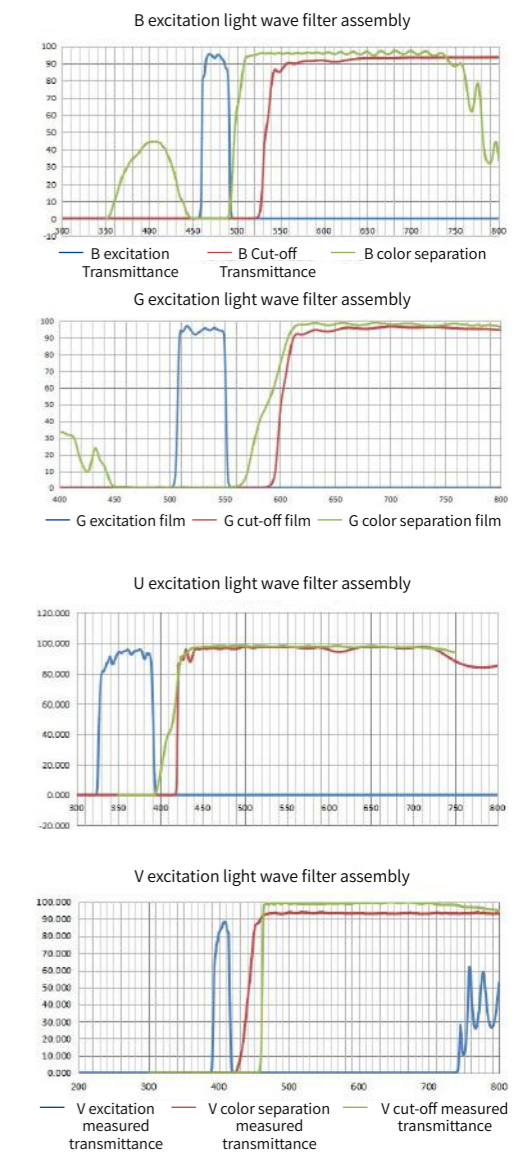
Provide You with Reliable, Clear, High-resolution Fluorescence Images

### Using the Latest Coating Technology

Using the latest advanced secondary corrugation elimination coating technology, the cutoff is sharper, the fluorescence transmission rate and detection efficiency are higher.

### Fluorescent Observation is More Comfortable

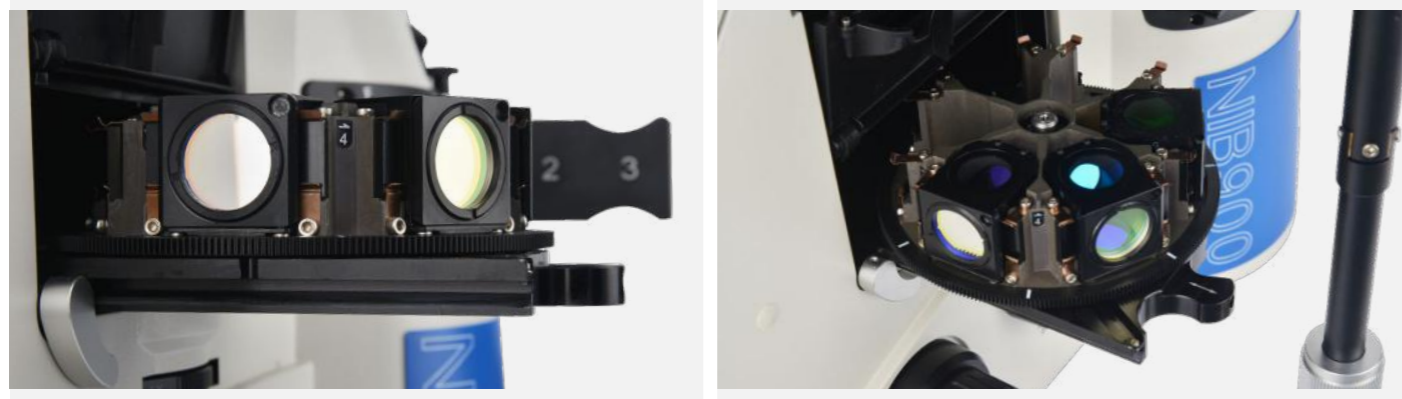
All the fluorescent filter components are equipped with ultra-high performance color filters. The fluorescent lighting strut is capable of installing six color filter banks, capable of imaging a variety of stained specimens at the same time. High sensitivity fluorescence can achieve bright and high contrast imaging results. Leading coating technologies also reduce scattered light and spontaneous fluorescence, ensuring a higher noise ratio.



# Clear Observation with a Variety of Fluorescent Dyes

## Fluorescence Excitation Module Carousel: Easier and More Flexible

The multi-function six-station rotary structure can be easily removed from the main unit for easy replacement of various fluorescent excitation modules.



## Simple and Fast Operation, Diaphragm Slider

In the optical path of Epi-illumination, field diaphragms, aperture diaphragms, and filter inserts, three different types of light sliders indicate the versatility of the NIB900 in living cell research. When used with aperture diaphragms and fluorescence filter inserts, the optimal fluorescence intensity can be adjusted according to the selected fluorescence module and objectives.



## Power Supply for HBO Mercury Lamp

The power supply for HBO mercury lamp is designed to be air-cooled with low noise and stable voltage. The unique automatic memory usage time and shutdown time can ensure the maximum cooling of the mercury lamp, protect the life of the mercury lamp and improve the mechanical performance.



# Create a Personal Microscope

## Viewing Head with Bertrand Lens

The built-in Bertrand lens device, in moving into the light path, can be used to observe the objective pupil, to the same role as the centering telescope.



## Tiltable Illumination Frame

The tilting illumination frame ensures a large working space for the user to change samples.



## Removable Mechanical Stage

The high-performance three-layer mechanical stage is flexible and accurate, and is equipped with a variety of stage mounting arms to accommodate many kinds of culture bottles and cell petri dishes.



## Various Image Output Ports

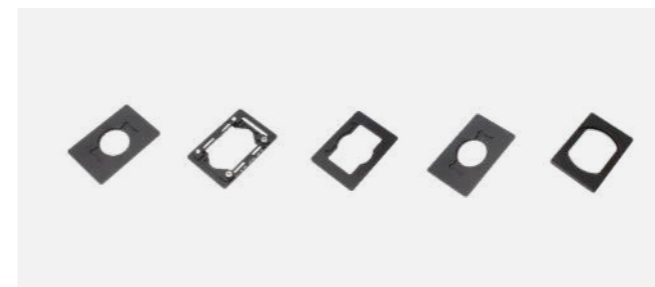
An optical path output selection turnplate is located on the left side of the microscope to facilitate the distribution of optical images to different ports, providing additional room for more optical image applications.



# Accessories

## Load Stage

Equipped with Terasaki holder, 96-well plates, Ø38mm, Ø54mm petri dish holder to meet a variety of experiment needs.



## Camera Adapter

Provide 0.4x, 0.5x, 1x C mount for users to choose, used to connect camera and other image acquisition systems



## N-iPLFN PH

## Plan Semi-apochromatic Objective

Multi-layer coating technology, semi-apochromatic objectives can compensate for spherical aberration and chromatic aberration from ultraviolet to near-infrared. The 20x and 40x semi-apochromatic objectives have a built-in calibration ring that corrects the difference in coverage caused by the non-standard thickness of the coverslip. Highly sensitive fluorescence properties ensure sharpness, clarity and color reproduction of the acquired image.

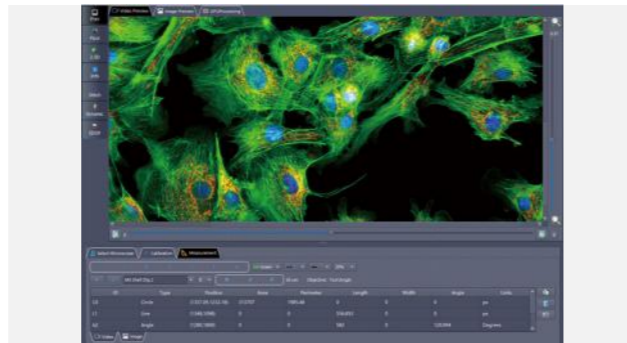


## New Revolution in Microscopic Observation

Today, the research work environment requires tools to adapt to each individual's workflow. NOMIS Basic microscopic image analysis software allows seamless integration between acquisition, processing, measurement and microscope. NOMIS Basic provides both observing tools for today's popular operating systems.

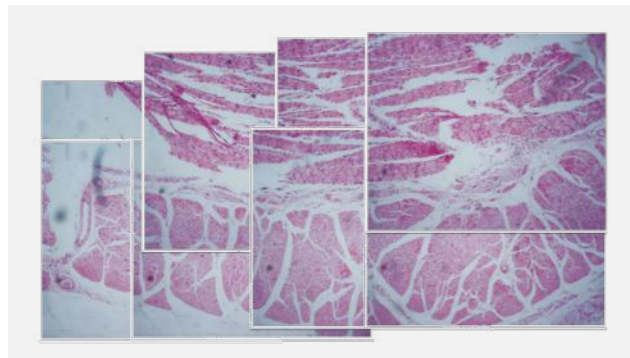
## Measurement Function

In cell and slice observations, measurement functions are required. To determine cell size, cell gap, synaptic length and other data. NOMIS Basic provides measurements of distance, angle, rectangle, circle, ellipse, etc.



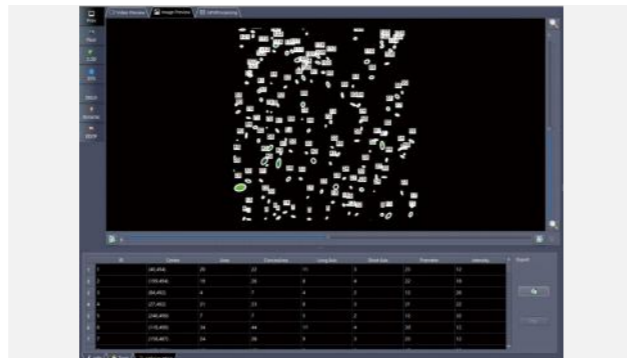
## Quick Stitching

By acquiring and importing images in real time, NOMIS Basic can quickly stitching to form a large, high-resolution image.



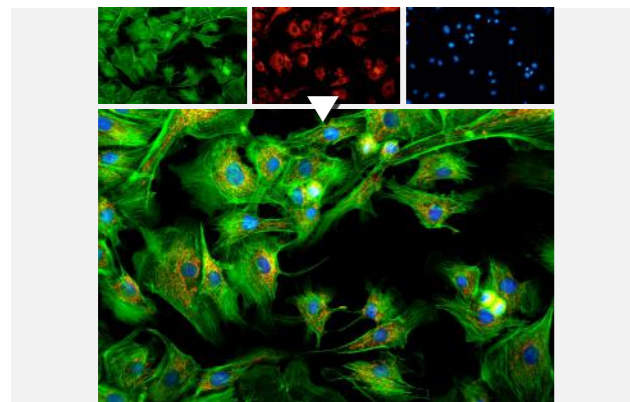
## Cell Count

It can customize cell counting requirements, automatically count and count cell shape information, including size, location, volume, perimeter, brightness and so on. And all data including processed images can be saved as EXCEL tables.



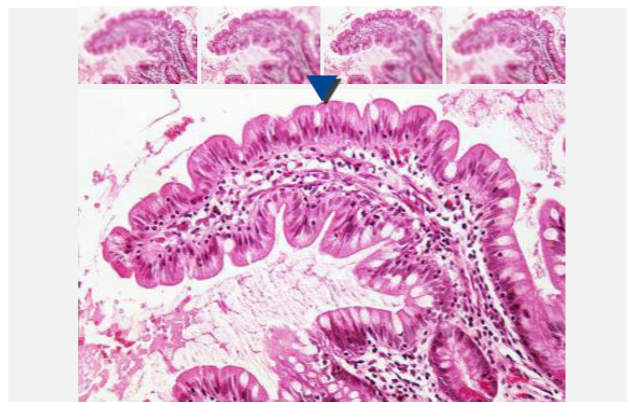
## Fluorescence Image Synthesis

By acquiring or importing images of different fluorescent ports, the user can obtain an image after fluorescence synthesis. For each port image, you can adjust the displacement in the X and Y directions to achieve fine adjustment.



## Depth of Field Fusion

The user can acquire multiple images of different focal lengths by fine-tuning the focal length and synthesize a picture output. Suitable for specimens that require a certain depth of field or poorly prepared sections.



## NIB900 Series System Diagram

