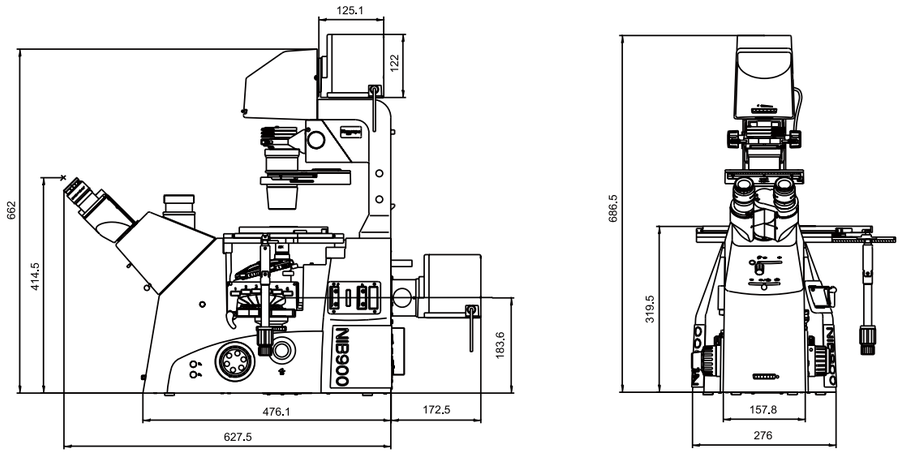
NIB900 Series Inverted Microscope Specifications

		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(build-in bertrand lens),inclined at 45°，Interpupilary 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, inlcuding 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®
Scientific research microscope

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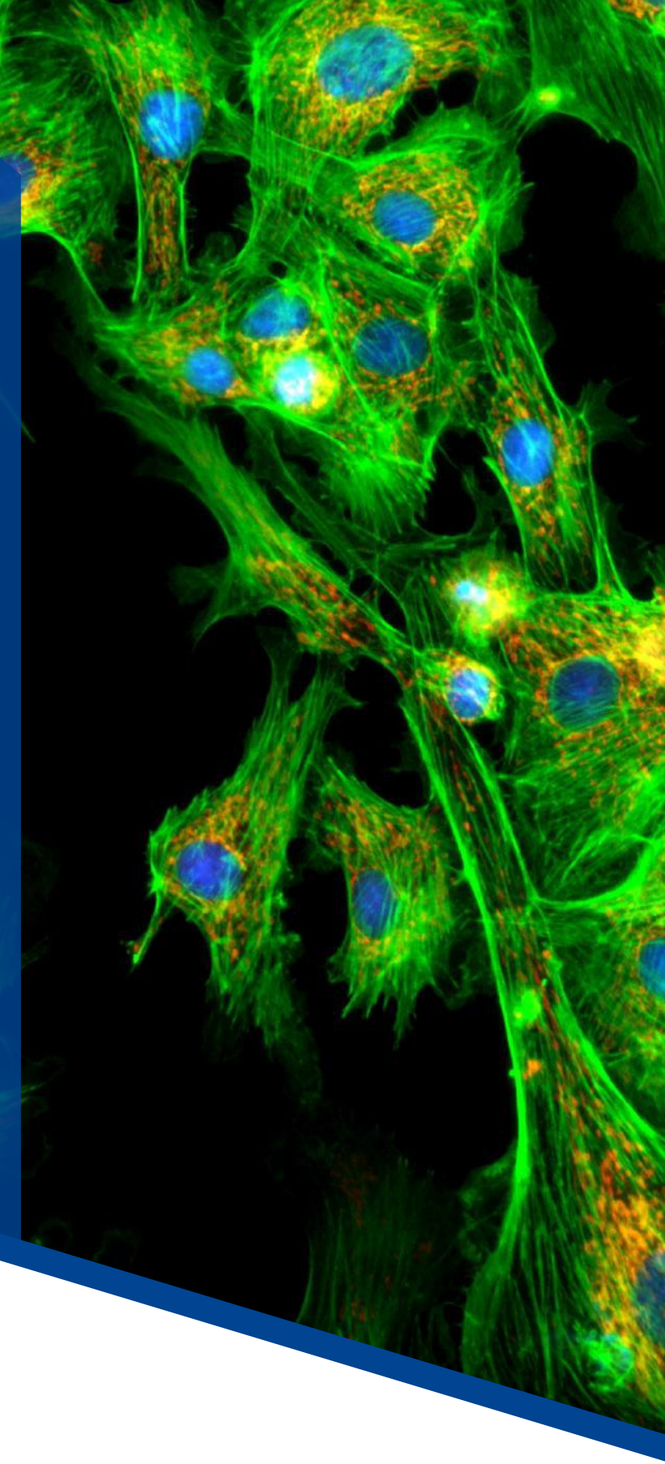
Invention Patent:CN200910099938.2 Invention Patent:CN201110140741.6 Invention Patent:CN201210005692.X



INVERTED RESEARCH MICROSCOPE

NIB900 SERIES
INVERTED RESEARCH MICROSCOPE

Nexcope®
Scientific research microscope

Nexcope®
Scientific research microscope

INVERTED RESEARCH MICROSCOPE

Expansion Space to Meet the Needs of Extensibility Research

Help You Advance in Life Science Research

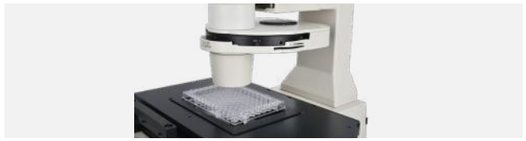
Easy to Operate

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

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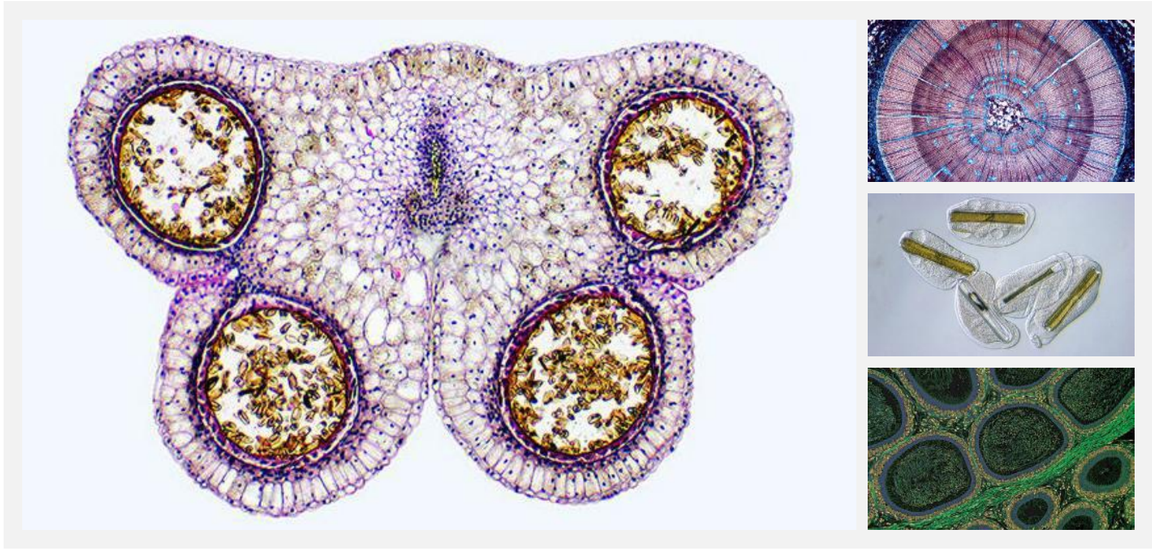
INVERTED RESEARCH MICROSCOPE

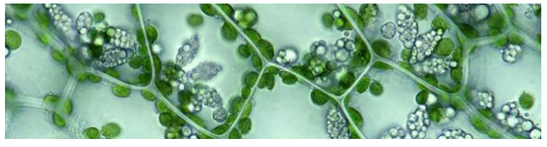


NIB910 Basic Model

Modular Design Provides a Variety of Flexible Imaging Methods

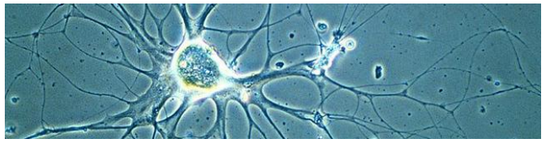
Bright Field

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

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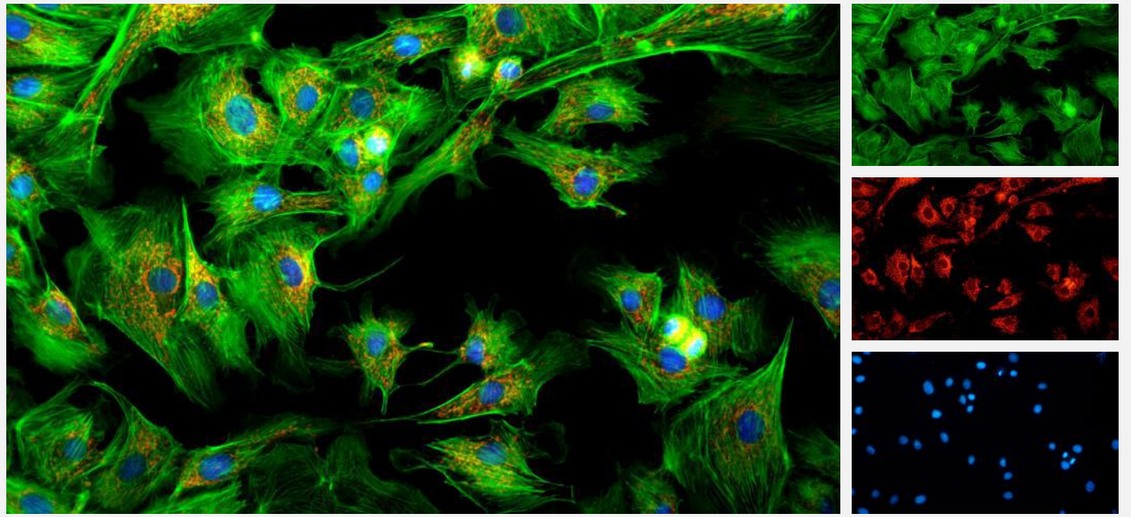
INVERTED RESEARCH MICROSCOPE



NIB910-FL
Fluorescent Model

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

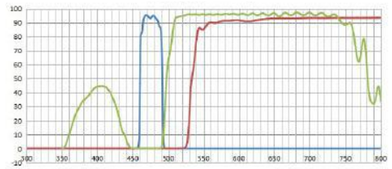
Using the Latest Coating Technology

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

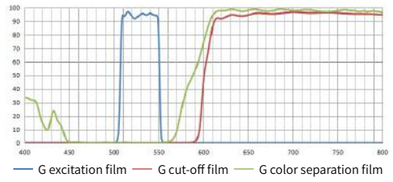
Fluorescent Observation is More Comfortable

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.

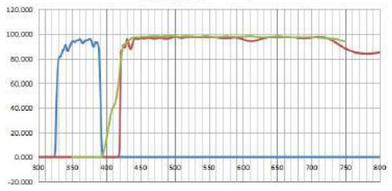
B excitation light wave filter assembly



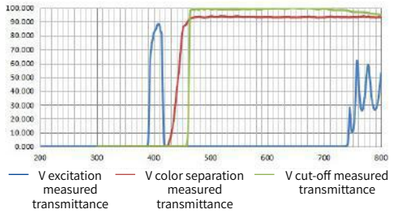
G excitation light wave filter assembly



U excitation light wave filter assembly



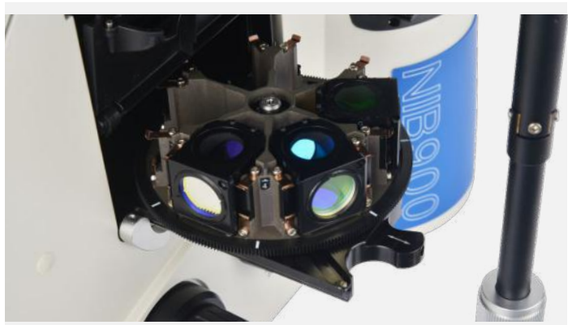
V excitation light wave filter assembly



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.

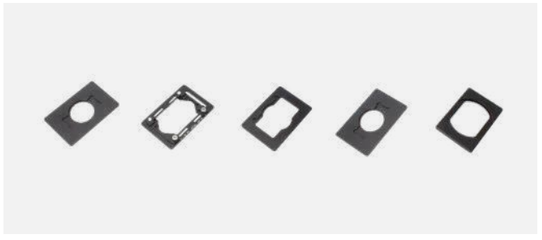
Various Image Output Ports

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

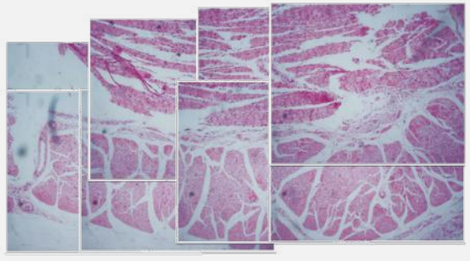
Today, the research work environment requires tools to adapt to each individual's workflow. NOMIS Basic microscopic image analysis software allows seamless integration between acquisition, processing, measurement and microscope. NOMIS Basic provides both observing tools for today's popular operating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

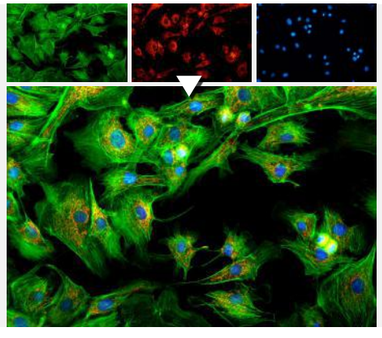


Cell Count

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.

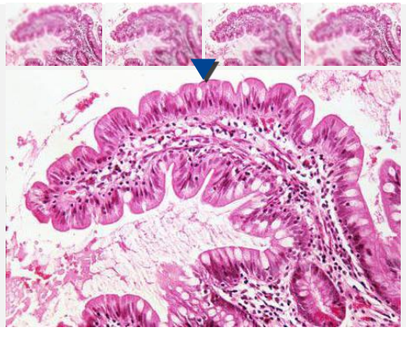
Fluorescence Image Synthesis

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 adjustmnt.

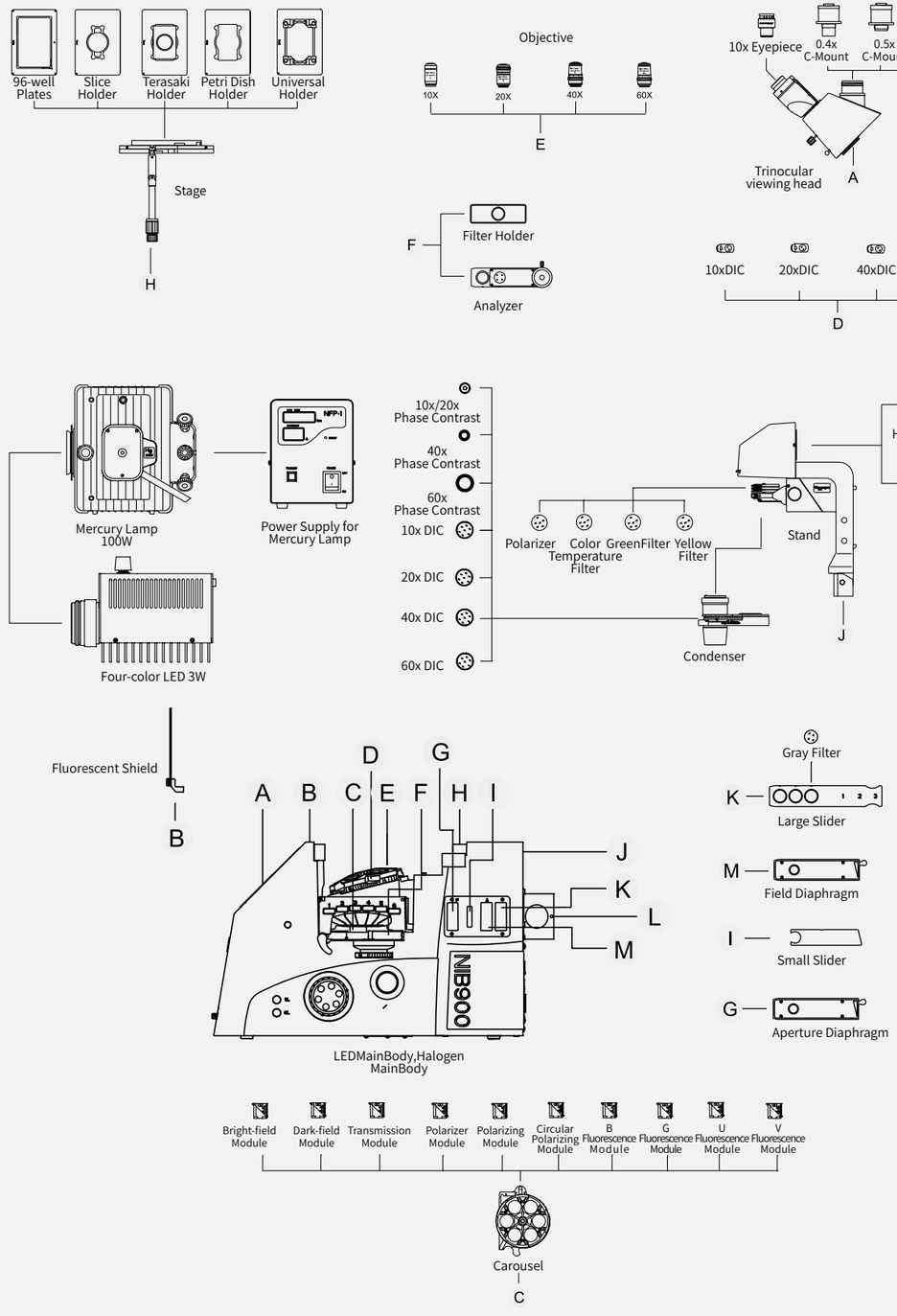


Depth of Field Fusion

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



NIB400 Microscope Specification

		NIB410	NIB410-FL	NIB430	NIB430-FL
Optical System		NIS60 Infinite Optical System（F200）			
Observation method		Brightfield, Phase Contrast, Hoffman phase Contrast, Emboss Contrast	Brightfield, Phase Contrast, Hoffman, phase Contrast, Emboss Contrast, Epi-Fluorescence	Brightfield, Phase Contrast, Hoffman phase Contrast, Emboss Contrast	Brightfield, Phase Contrast, Hoffman, phase Contrast, Emboss Contrast, Epi-Fluorescence
Illumination	**Tramsmitted illumination**	3W S-LED		3W S-LED Kohler Illumination	
	Episcopic illumination	-	LED illuminator, built-in Fly-eye lens, Can be configured with up to 3 different fluorescence LED units; available wavelengths:365, 405, 485, 525nm	-	LED illuminator, built-in Fly-eye lens, Can be configured with up to 3 different fluorescence LED units; available wavelengths:365, 405, 485, 525nm
Viewing Head		Seidentopf Binocular Viewing Head, Inclined at 45°, Interpupillary 48-75mm；Additional camera port eyepiece /port 100/0 ： 0/100		Seidentopf Binocular Viewing Head, Inclined at 5-35°, Interpupillary 48-75mm；Additional camera port eyepiece /port 100/0 ： 0/100	
Eyepiece(F.O.V)		SW10×(22)，WF15×(16)，WF20×(12)			
Focusing		Coaxial coarse and fine adjustment, the function of coarse tightness adjustment,Fine Division 1 um,Fine stroke 0.2mm per rotation , Coarse stroke 37.5mm per rotation. Up 7mm，down1.5mm.			
Nosepiece		Quintuple Nosepiece			
Condenser		Condenser NA 0.3, WD 75mm, without Condenser WD 187mm			
Stage		Stage: 170（X）× 250（Y)mm Attachable Mechanical Stage: 129（X）× 80（Y)，Accepts 5 types of micro-testplate, well clamper and stage clip.			
Holder		Petridish Holder 35mm， Terasaki Holder for Terasaki holder and ø65 dish， ø54 dish and hemocytometer， ø35-65 dish and hemocytometer. Petridish Holder 90mm， Slide Glass Holder for glass slides, Universal Holder for Terasaki plate holder and glass slide,			
Phase system		Condener with 4x Phase Annulus Plate 10x,20,40x Universal Phase Annulus Plate			
Hoffman phase		10×、20×、40× Hoffman Condenser，Special objective			
Relief 3D contrast		Condenser and Eyepiece with Emboss Contrast 10×、20×、40×, Universal Emboss contrast slide			
Epi-Fluorescence attachment		–	Filter cubes with noise terminator mechanism Configure with up to 3 Epi-fluorescence filter cubes, Attachable Contrast Shield.	–	Filter cubes with noise terminator mechanism Configure with up to 3 Epi-fluorescence filter cubes, Attachable Contrast Shield.
Dimensions		243（W)×543（D)× 470（H)mm	243（W)×563（D)× 470（H)mm	243（W)×587（D)× 550（H)mm	243（W)×587（D)× 504（H)mm
Video Adapter		1×、0.5×，C Mount			
Accessories		ECO（No operator, turn off the light source automatically in 15 minutes）；Heating Stage			

NEXCOPE is IS09001:2008 Certified
NEXCOPE is IS014001:2004 Certified
NEXCOPE is IS013485:2003Certified

Nexcope®
U.S.A

Nexcope®
Scientific research microscope

INVERTED BIOLOGICAL MICROSCOPE

NIB400

CULTURE MICROSCOPE

Laboratory Microscope

Nexcope®
Scientific research microscope

INTELLIGENT

COMFORTABLE

ACCURATE

NEXCOPE

NIB400 SERIES

Make Reasonable improvement on basis of scientific research microscope. More suitable for laboratory observation of cells.

Adopt long life LED light source and infinity optical system, easy to obtain high-definition and high contrast wide viewing images.

The body is compact and stable, and the operation buttons are well arranged, the cells can be observed, sampled and processed in the super clean bench freely.

Using 3 different color filter, it widely enlarges selectivity for dye. LED illumination with large intensity and even brightness provides support for high quality fluorescence observation.

With standard camera port, Nexcope camera and image processing software, providing low noise, high sensitivity and resolution image

More suitable for cell observation

Ergonomic design, comfortable operation

・45° Inclined Viewing Head

Inclined viewing head makes the user to operate microscope in a comfortable position. Minimize muscle tension and discomfort caused by long working hours.

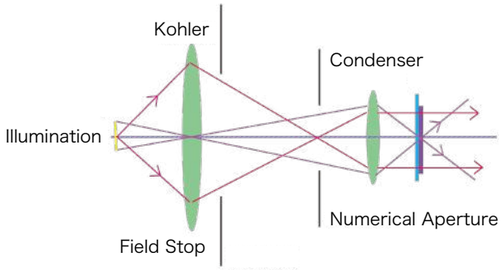
・Long-handle mechanical stage

The user can make comfortable and smooth movement during the operation, thereby improving work efficiency and comfort.

High brightness, long lifetime LED Illumination

・Kohler Illumination

By means of a perfect Kohler illumination, providing bright and uniform field. Together with long working distance and NIS infinite optical system, providing perfect image.



・LED illuminator, suitable for various observation

With a high brightness and long lifetime LED illumination system for both transmission and fluorescent lighting, proving even brightness and cool lighting.Eco-illumination provides a long lifetime of 50,000 hours and reduce the frequency of lamp replacement.

	NIB400	NIB400-FL
Transmitted	・Bright field ・Hoffman phase	・Phase Contrast ・Emboss Contrast
Fluorescent	-	・Epi-Fluorescence

Special NIS series objective for cell observation

NIS series objectives are specially designed for cell observation, suitable for bright field, phase contrast, Hoffman phase and Emboss contrast.

Spherical aberration and chromatic aberration from ultraviolet to near infrared are corrected by multi-layer coating. The sharpness, definition and color restoration of the image are guaranteed with all magnifications.

Digital observation system

・Reasonable camera port design

The camera port is located at left side of microscope, the user can look directly at the specimen on the stage and also place the micoscope into clean bench without any obstraction.

・Various cameras available

The user can select the camera according to various demands, and the installation is simple and fast. All cameras can provide high sensitivity and color restoration, low noise image. Smooth real-time video is available with USB 3.0 high speed transmission port.

・Powerful image processing software

The software contains many funitions, such as capture, calibration, measurement, cell count, image stitching and compostion. It satisfies the acquisition, processing and analysis for laboratory microscopic images.

More convenient for cell sampling and aseptic manipulation

The microscope control mechanism is reasonable in layout and easy to operate

The frequently used control mechanisms are close to the user and in low-hand position. This kind of design makes operation more quickly and conveniently, and reduce the fatigue caused by the long observation. On the other hand, it reduces the airflow and dust caused by large amplitude operation, and it is very effective to reduce the probability of sample pollution. It is a strong guarantee for the accuracy and repeatability of the experimental results.

The body is compact, stable and suitable for clean bench

- Can be sterilized in the clean bench

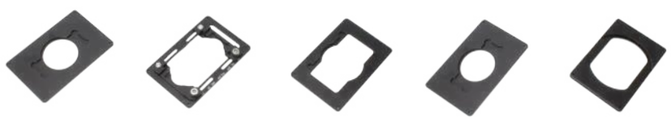
On the premise of ensuring the effect of imaging, NIB400 is with relative compact design. The volume and weight of the body is reduced as much as possible in principle of stablity. The compact body is with anti-UV coating and can be placed into the clean bench for sterilization under UV lamp.

- Cell sampling and operation can be performed in clean bench

The distance between the eye point to the operation button and the focusing knob of the NIB400 is relatively short, and the distance from the stage is far away. It is available to make the viewing head and operating mechanism outside, and stage, objectives and sample inside. So realize cell sampling and operation inside and observing comfortably outside.

Various holders for different culture containers

Various holders are available for different culture containers, such as Petri dishes, well plates, and culture flasks. As well as available for different size Petri dishes.



Φ65mm Slide Glass Holder	Universal Holder	Terasaki Holder	Φ54mm Petri Dish Holder	Φ90mm Peteri Dish Holder

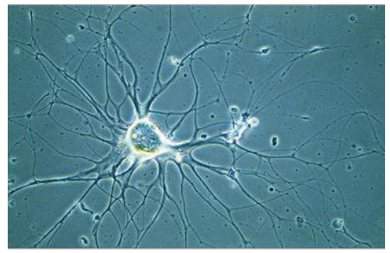
Detachable condenser

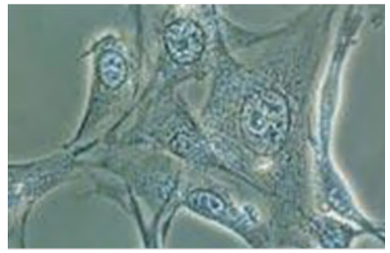
When culture flask is used, the condenser can be removed to increase working distance. It is also suitable for multilayer culture flask.

Transmission

Phase Contrast

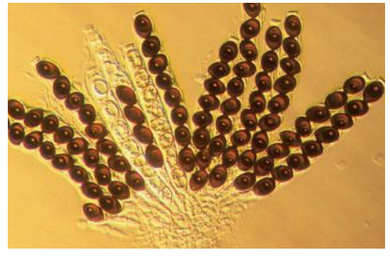
By using changes in the refractive index, high contrast microscopic images of transparent samples can be obtained with phase contrast observation technique. The advantage is that the details of live cell imaging can be obtained without staining and fluorescent dyes.
Application range:
Living cells in culture
Microorganism
Tissue slide
Subcellular graims (including cell nuclei and organelles)





Hoffman Modulation Phase Contrast

With slant light, changing phase gradient into light intensity variety, it can be used to observe unstained cells and living cells.



3D Emboss Contrast

Even without extra optical components, no glare 3D image can be obtained just through adding adjustment slider. Both glass and plastic Petri dishes are available.

Fluorescent observation

LED light makes fluorescent observation easier

- Uniform brightness

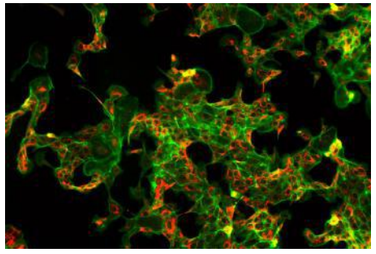
  Matching with Kohler illumination, the Fly-eye lens delivers uniform brighness to the entire filed of view, whether through the eyepiece or through CCD camera.

- Easy to use

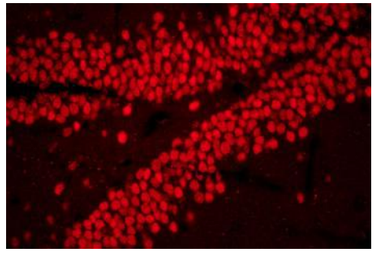
  Compared with the traditional mercury bulb, the LED elimiate frequent bulb replacements, saving time and monney. Also the problems of preheating, cooling and high temperature is solved.

Suitable for a variety of fluorescent dyes

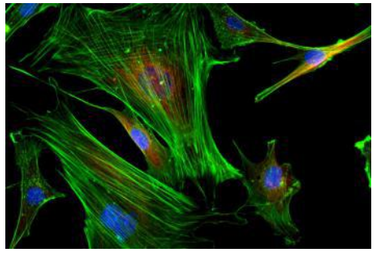
Equipped with 3 fluorescent filter blocks, it provides a wide range of choice of dyes and capture clear high contrast fluorescence images.



Mammary Cancer



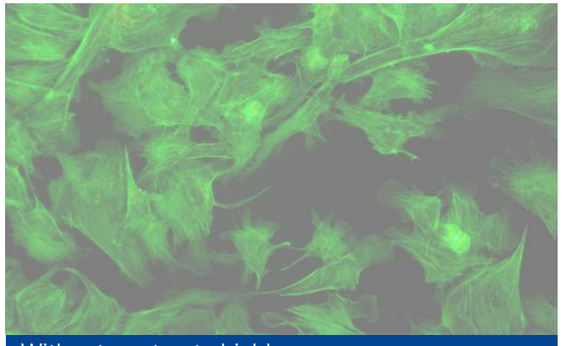
Hippocampus



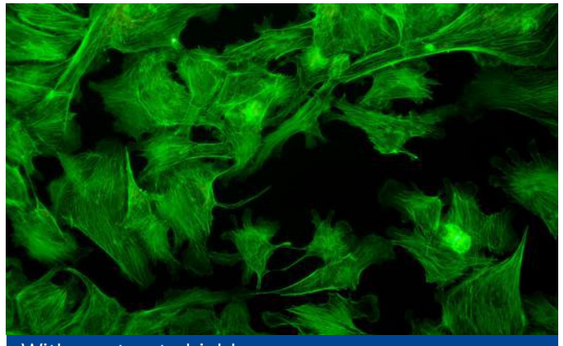
HC3T3 Neuro-2a

Contrast Shield

The Contrast Shield can effectively block the interference of the external light, increase the contrast of the fluorescent image, and provide a high signal-to-noise ratio fluorescent image. When need phase contrast observation, the Contrast Shield is very convenient to be removed from the light path, avoiding influence on the quality of phase contrast.



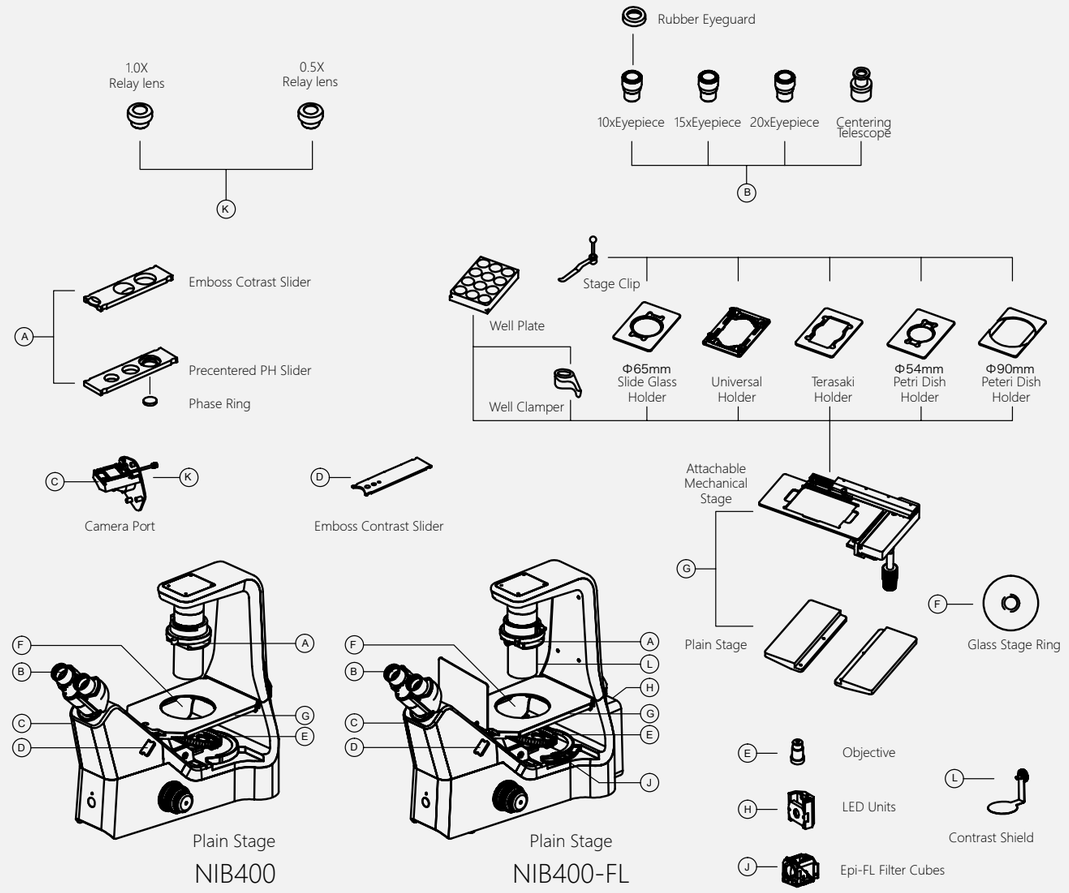
Without contrast shield



With contrast shield

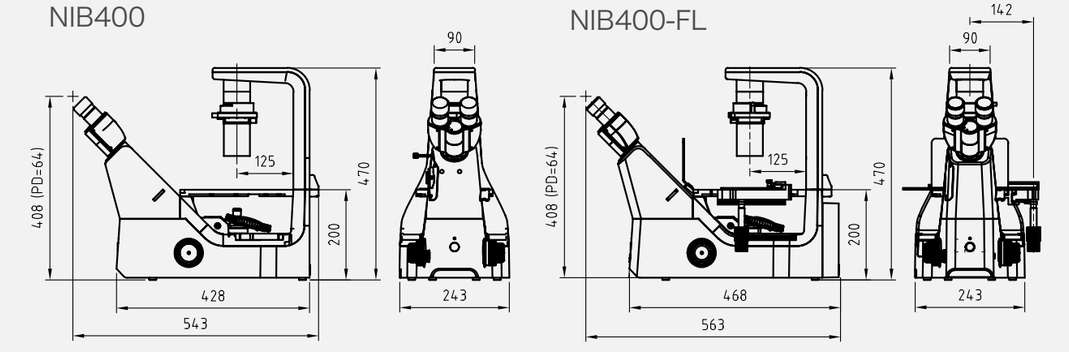
Syestem Diagram

For Nexcope NIB400 Microscope



DIMENSION FIGURE

(Unit: mm)



NIB600 Microscope Specification

		NIB610	NIB610--FL	NIB620	NIB620-FL
Optical System		NIS Infinite Optical System (F200)			
Observation method		Brightfield, Phase Contrast, Hoffman phase Contrast, Emboss Contrast	Brightfield, Phase Contrast, Hoffman, phase Contrast, Emboss Contrast, Epi Fluorescence	Brightfield, Phase Contrast, Hoffman phase Contrast, Emboss Contrast	Brightfield, Phase Contrast, Hoffman, phase Contrast, Emboss Contrast, Epi-Fluorescence
Illumination	Tramsmitted illumination	3W S-LED		3W S-LED Kohler Illumination	
	Episcopic illumination		LED illuminator, built-in Fly-eye lens, Can be configured with up to 3 different fluorescence LED units; available wavelengths:365, 405, 485, 525nm		LED illuminator, built-in Fly-eye lens, Can be conPgured with up to 3 different fluorescence LED units; available wavelengths:365, 405, 485, 525nm
Viewing Head		Seidentopf Viewing Head, Inclined at 45° , Interpupillary 48-75mm；Additional camera port eyepiece /port 100/0 : 0/100			
Eyepiece(F.O.V)		SW10×(22)，WF15×(16)，WF20×(12)			
Focusing		Coaxial coarse and Pne adjustment, the function of coarse tightness adjustment, Fine Division 1 um,Fine stroke 0.2mm per rotation , Coarse stroke 37.5mm per rotation. Up 7mm，down1.5mm.			
Nosepiece	Quintuple Nosepiece	x	x		
	Coded Quintuple Nosepiece			x	x
LCD Screen				Function display magnification, timing sleep, brightness indication and lock, etc.	
Condenser		Condenser NA 0.3, WD 75mm, without Condenser WD 187mm			
Stage		Stage：170（X）× 250（Y)mm Attachable Mechanical Stage: 128（X）× 80（Y)， Accepts 5 types of micro-testplate, well clamper and stage clip.			
Phase System		Condener with 4x Phase Annulus Plate 10x,20,40x Universal Phase Annulus Plate			
Hoffman Phase		10×、20×、40× Hoffman Condenser，Special objective			
Relief 3D Contrast		Condenser and Eyepiece with Emboss Contrast 10×、20×、40×, Universal Emboss contrast slide			
Epi-Fluorescence Attachment			Filter cubes with noise terminator mechanism Configure with up to 3 Epi-fluuorescence filter cubes, Attachable Contrast Shield.		Filter cubes with noise terminator mechanism ConPgure with up to 3 Epi-fluorescence PPlter cubes, Attachable Contrast Shield.
Dimensions		244（W)×543（D)×526（H)mm	244（W)×559（D)× 526（H)mm	244（W)×543（D)× 526（H)mm	244（W)×559（D)× 526（H)mm
Video Adapter		1×、0.5×，C Mount			
Accessories		ECO（No operator, turn off the light source automatically in 15 minutes）；Heating Stage			

Nexcope®
Scientific research microscope

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E-mail：lf@yxopt.com
http://www.nexcope.com

CULTURE MICROSCOPE

INVERTED BIOLOGICAL MICROSCOPE FOR CULTURE

NIB600

Professional Cell Observation, Explore Genetic Mysteries

Nexcope®
Scientific research microscope

Nexcope®
Scientific research microscope

INTELLIGENT

COMFORTABLE

ACCURATE

NEXCOPE NIB600

1.Make Reasonable improvement on basis of scientific research microscope. More suitable for laboratory observation of cells.
2.Adopt long life LED light source and infinity optical system, easy to obtain high-definition and high contrast wide viewing images.
3.The body is compact and stable, and the operation buttons are well arranged, the cells can be observed, sampled and processed in the super clean bench freely.
4.Using 3 different color filter, it widely enlarges selectivity for dye. LED illumination with large intensity and even brightness provides support for high quality fluorescence observation.
5.With standard camera port, Nexcope camera and image processing software, providing low noise, high sensitivity and resolution imageity and resolution image

Professional Cell Observation

Ergonomic design, comfortable operation

· 45° Inclined Viewing Head
Inclined viewing head makes the user to operate microscope in a comfortable position. Minimize muscle tension and discomfort caused by long working hours.

· Long-handle mechanical stage
The user can make comfortable and smooth movement during the operation, thereby improving work efficiency and comfort.

High brightness, long lifetime LED Illumination

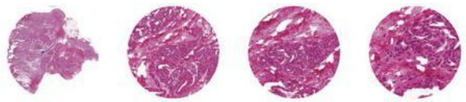
· LED illuminator, suitable for various observation
With a high brightness and long lifetime LED illumination system for both transmission and fluorescent lighting, proving even brightness and cool lighting.

	NIB610/NIB620	NIB610-FL/NIB620-FL
Transmitted	Bright Field ,Phase Contrast ,Hoffman Phase,Emboss Contrast	
Fluorescent	-	Epi-Fluorescence

Intelligent operating system

Objective coding converter

It can memorize the illumination brightness when using each objective. When different objectives are converted to each other, the light intensity is automatically adjusted to reduce visual fatigue and improve work efficiency.



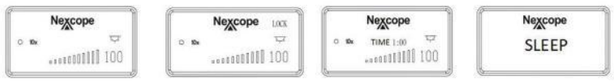
4X 10X 20X 40X

Use a dimming knob to achieve multiple functions

Click: Enter standby status
Double click: light lock or unlock
Rotation: Adjust brightness
Press + up-spin: Switch to the upper light source
Press + down-spin: Switch to the under light source
Press 3 seconds: Set the time of turning off the light after leaving

The display of microscope use state

The liquid crystal screen on the front of the microscope can display the using state of the microscope, including magnification, light intensity, standby status, and so on.



Start& working mode | Lock mode | Turn off the light after leaving mode | standby mode

More convenient for cell sampling and aseptic manipulation

The microscope control mechanism is reasonable in layout and easy to operate

The frequently used control mechanisms are close to the user and in low-hand position. This kind of design makes operation more quickly and conveniently, and reduce the fatigue caused by the long observation. On the other hand, it reduces the airflow and dust caused by large amplitude operation, and it is very effective to reduce the probability of sample pollution. It is a strong guarantee for the accuracy and repeatability of the experimental results.

The body is compact, stable and suitable for clean bench

- Can be sterilized in the clean bench

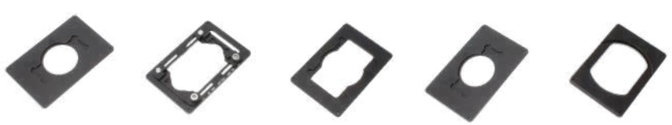
On the premise of ensuring the effect of imaging, NIB600 is with relative compact design. The volume and weight of the body is reduced as much as possible in principle of stablity. The compact body is with anti-UV coating and can be placed into the clean bench for sterilization under UV lamp.

- Cell sampling and operation can be performed in clean bench

The distance between the eye point to the operation button and the focusing knob of the NIB400 is relatively short, and the distance from the stage is far away. It is available to make the viewing head and operating mechanism outside, and stage, objectives and sample inside. So realize cell sampling and operation inside and observing comfortably outside.

Various holders for different culture containers

Various holders are available for different culture containers, such as Petri dishes, well plates, and culture flasks. As well as available for different size Petri dishes.



Slide Glass Holder Φ65mm | Universal Holder | Terasaki Holder | Petri Dish Holder Φ54mm | Peteri Dish Holder Φ90mm

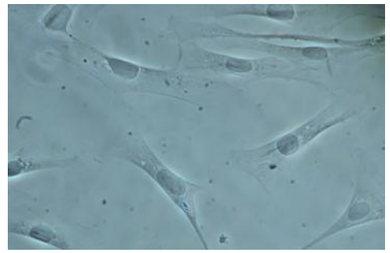
Detachable condenser

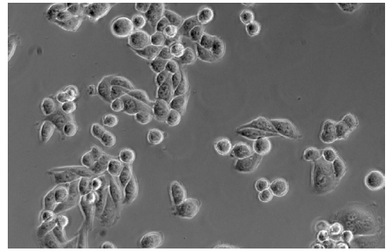
When culture flask is used, the condenser can be removed to increase working distance. It is also suitable for multilayer culture flask.

Transmission

Phase Contrast

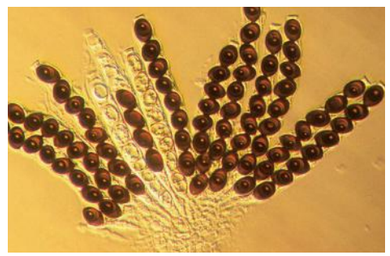
By using changes in the refractive index, high contrast microscopic images of transparent samples can be obtained with phase contrast observation technique. The advantage is that the details of live cell imaging can be obtained without staining and fluorescent dyes.
Application range: Living cells in culture, Microorganism , Tissue slide , Subcellular graims (including cell nuclei and organelles).





Hoffman Modulation Phase Contrast

With slant light, changing phase gradient into light intensity variety, it can be used to observe unstained cells and living cells.



3D Emboss Contrast

Even without extra optical components, no glare 3D image can be obtained just through adding adjustment slider. Both glass and plastic Petri dishes are available.

Fluorescent observation

LED light makes fluorescent observation easier

- Uniform brightness

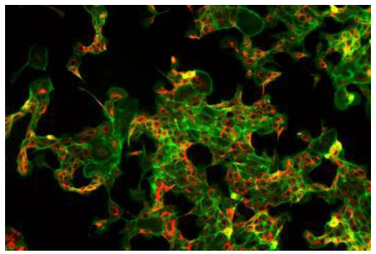
Matching with Kohler illumination, the Fly-eye lens delivers uniform brighness to the entire filed of view, whether through the eyepiece or through CCD camera.

- LED Easy to use

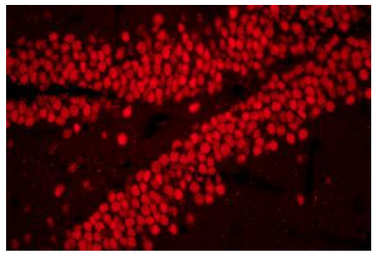
Compared with the traditional mercury bulb, the LED elimiate frequent bulb replacements, saving time and monney. Also the problems of preheating, cooling and high temperature is solved.

Suitable for a variety of fluorescent dyes

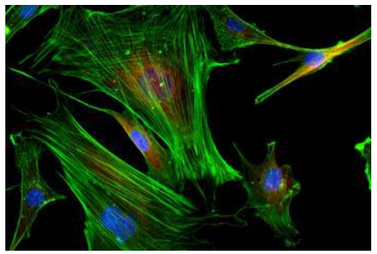
Equipped with 3 fluorescent filter blocks, it provides a wide range of choice of dyes and capture clear high contrast fluorescence images.



Breast cancer



Hippocampus



HC3T3 mouse brain nerve cells

Contrast Shield

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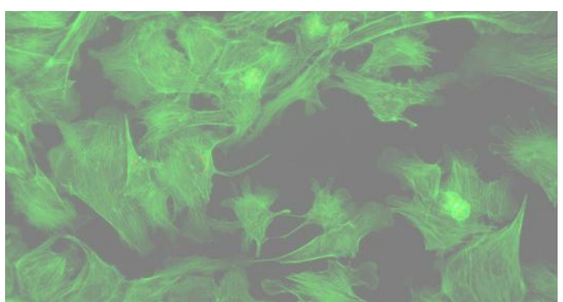
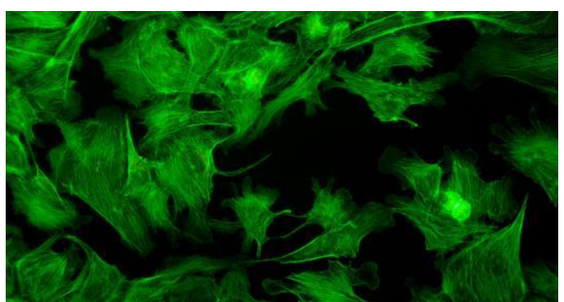


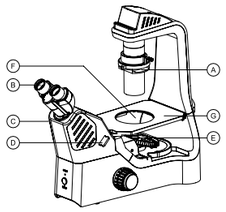
Without contrast shield



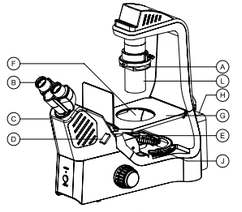
With contrast shield

SYSTEM LAYOUT

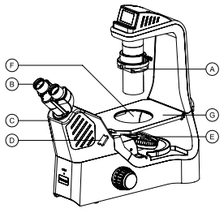
For Nexcope NIB600 Microscope



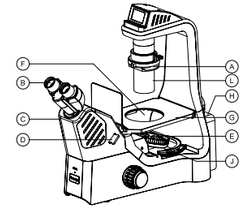
Main Body
NIB610



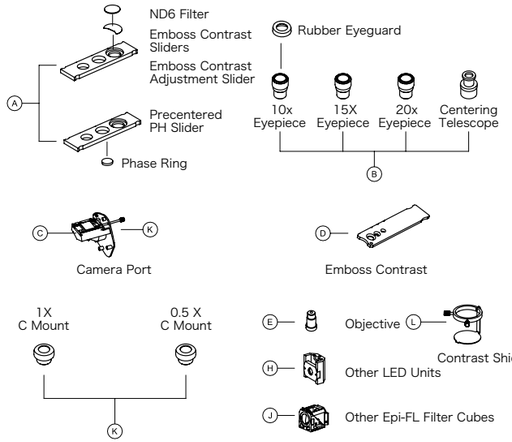
Main Body
NIB610-FL

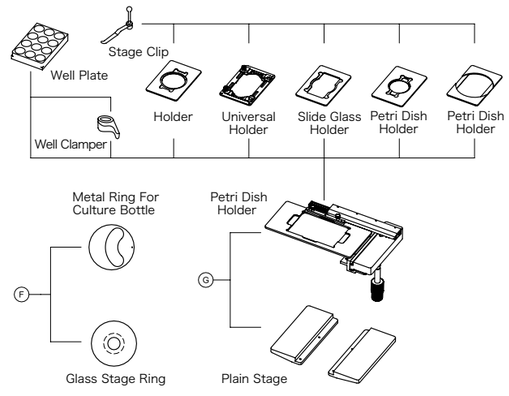


Main Body
NIB620



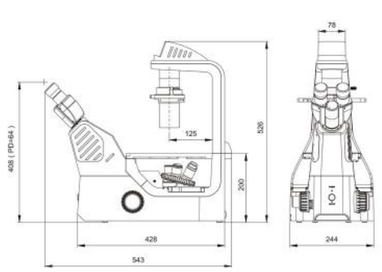
Main Body
NIB620-FL



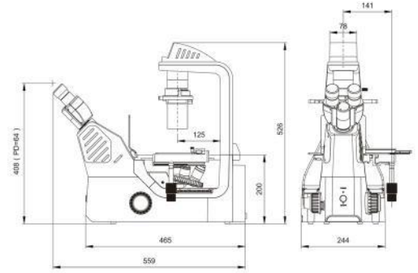


DIMENSION FIGURE

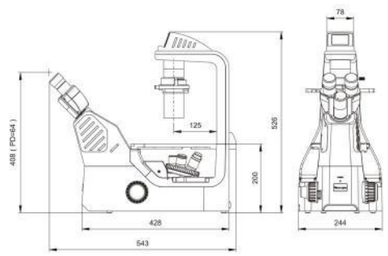
(Unit: mm)



NIB610



NIB610-FL



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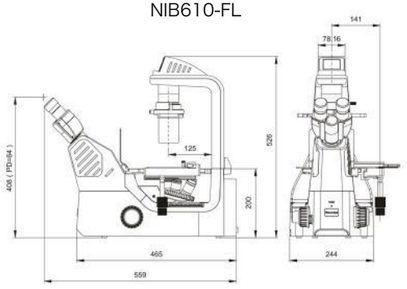

NIB620-FL