OPTO EDU A14.1097 SW10x Inverted Biological Microscope SW10x/22mm

Our Product Introduction

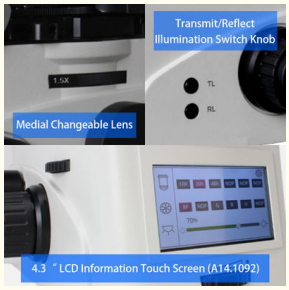
Basic Information

- Place of Origin: China
- Brand Name: CNOEC, OPTO-EDU
- Certification: CE, Rohs
- Model Number: A14.1097
- Minimum Order Quantity: 1 pc
- Price: Negotiation
- Packaging Details: Carton Packing, For Export Transportation
- Delivery Time: 5~20 Days
- Payment Terms: T/T, West Union, Paypal
- Supply Ability: 5000 pcs/ Month

Product Specification

- Head: Seidentopf Trinocular Head, Inclined 45°
- Eyepiece / F.O.V: SW10x/22mm, High Eyepoint, Diopter Adjustable, Dia.30mm
- Media Lens: Built-in Media Lens Turret 1.0x, 1.5x, Under Nosepiece
- Nosepiece: Coded Manual Sextuple Nosepiece, With DIC Slot
- Working Stage: Three Layer Mechnical Stage, Moving Range 130x85mm
- Focusing: Coaxial Coarse & Fine Focusing, Focusing Range 9mm
- Highlight: **OPTO EDU inverted biological microscope**, **inverted biological microscope OPTO EDU**, **SW10x inverted biological microscope**

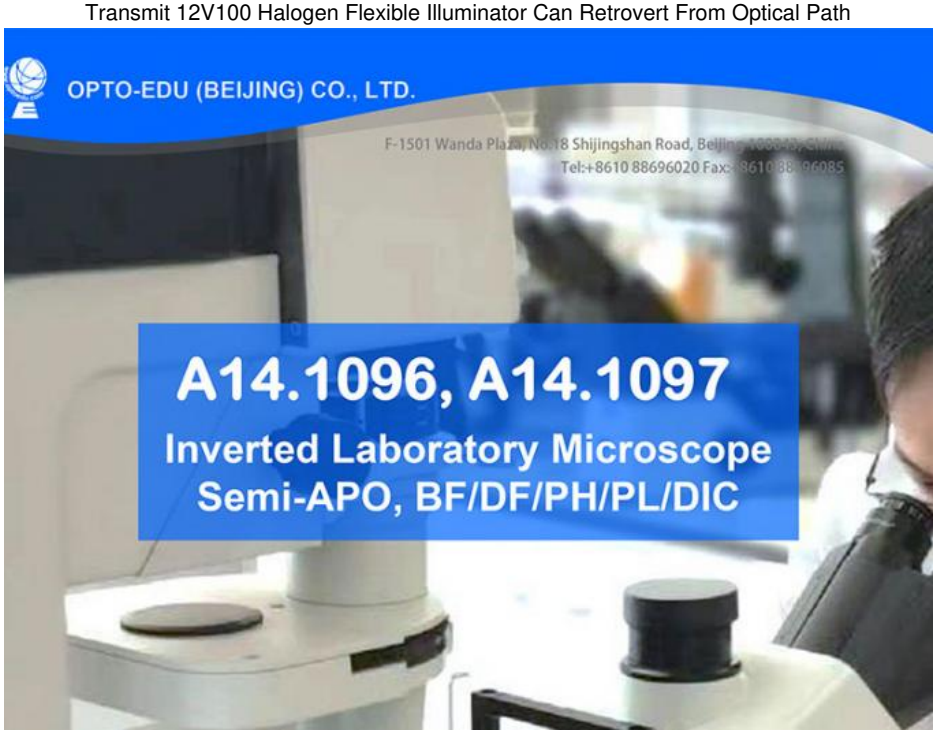
More Images

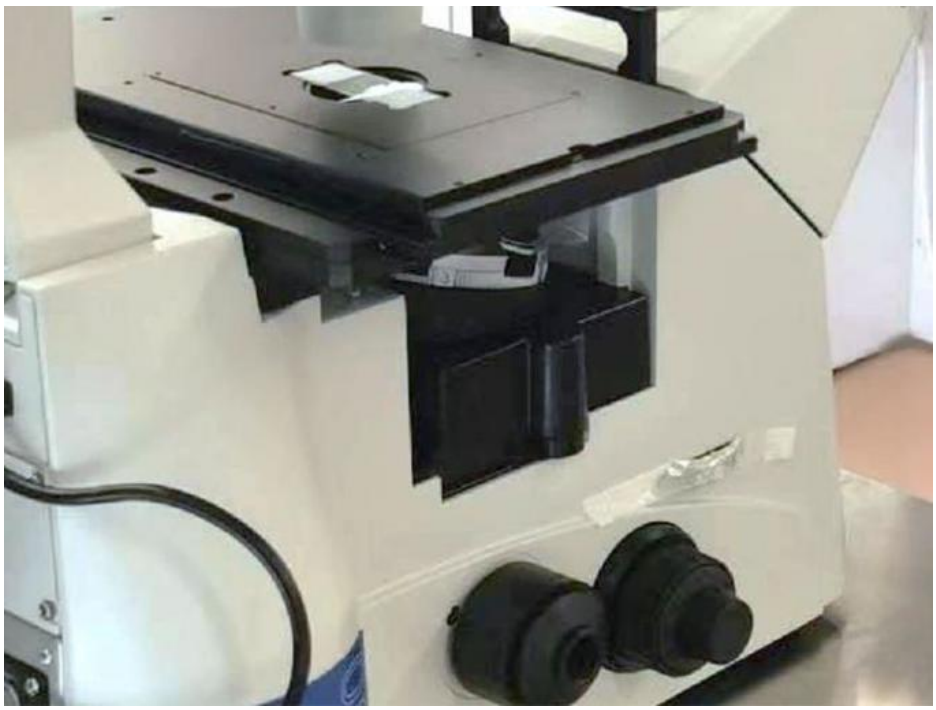


Our Product Introduction

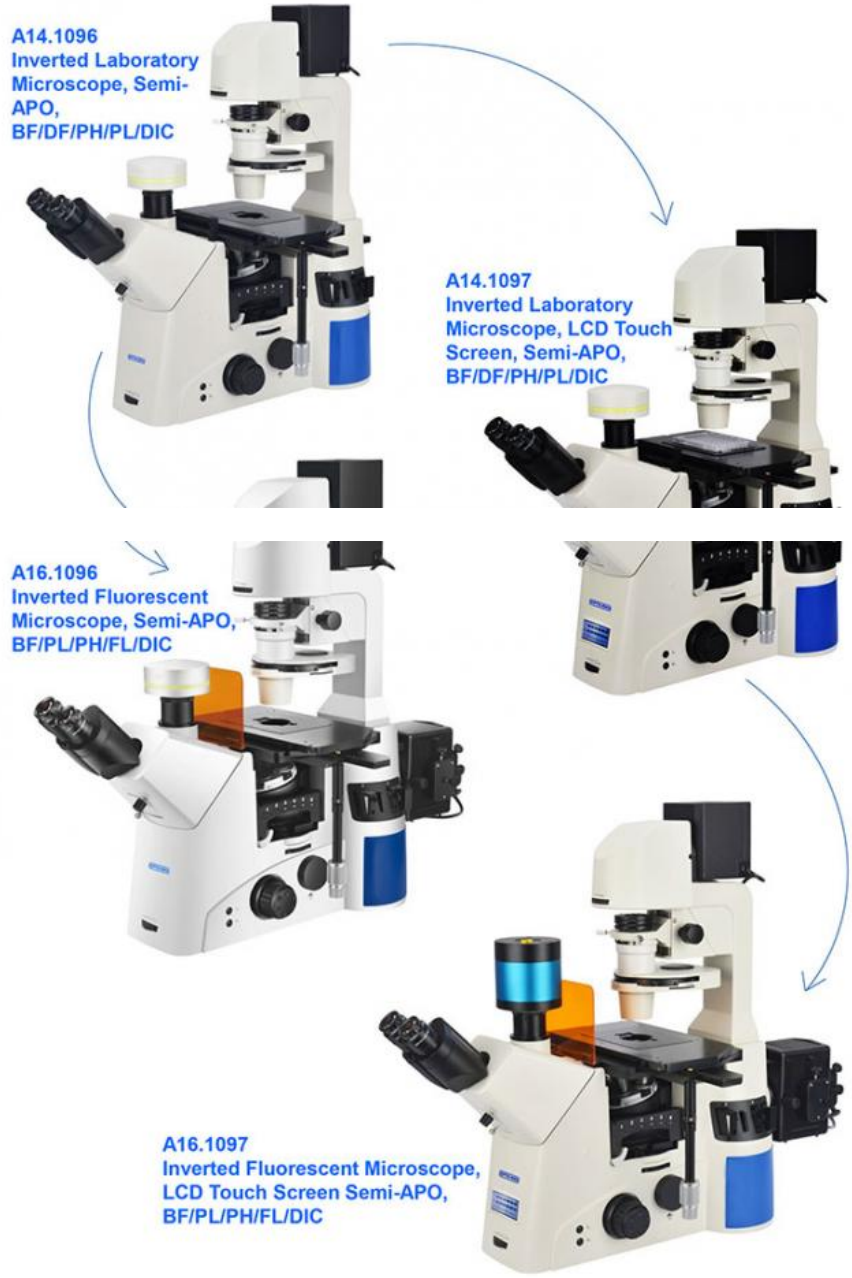
Product Description

Research Level Inverted Biological Microscope For BF/PH/DIC
Trinocular Head With Built-in Bertrand Lens SW10x/22mm Eyepiece
Infintiy Plan Sem-APO Phase Contrast Objective 10x20x40x
LCD Touch Screen + Coded Sextuple Nosepiece With DIC Slot
Transmit 12V100 Halogen Flexible Illuminator Can Retrovert From Optical Path

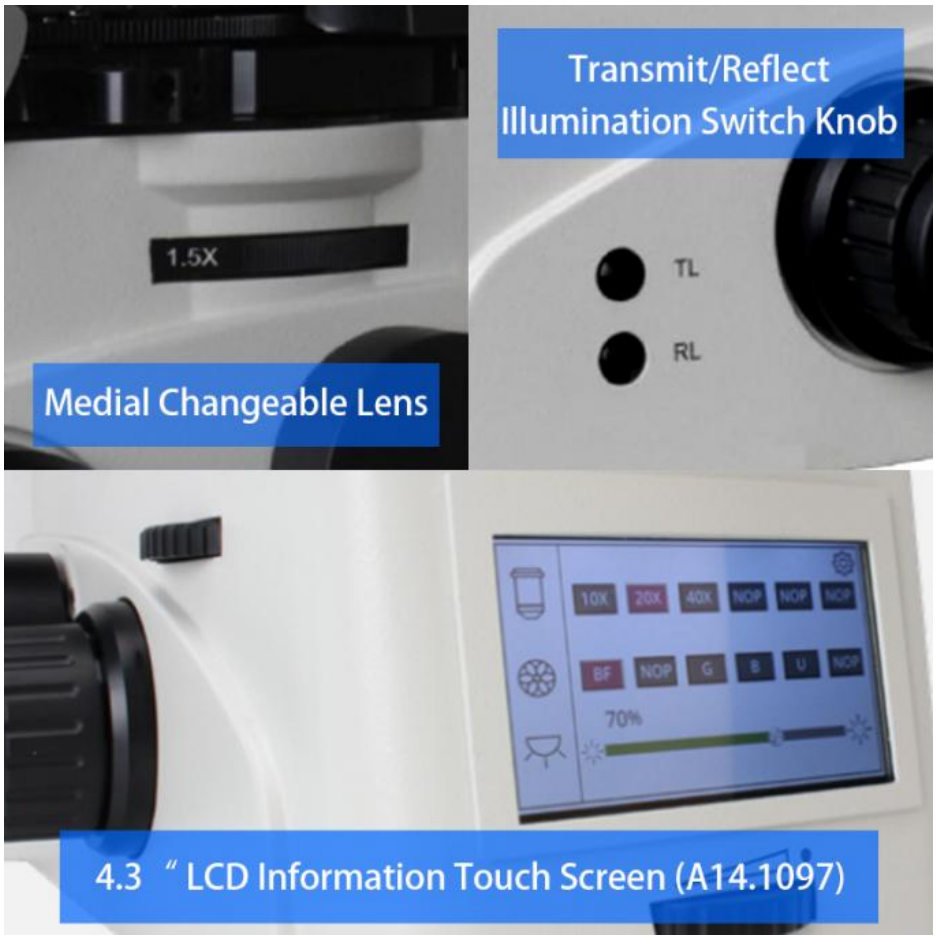




A14.1096, A14.1097, A16.1096, A16.1097 Series Microscope



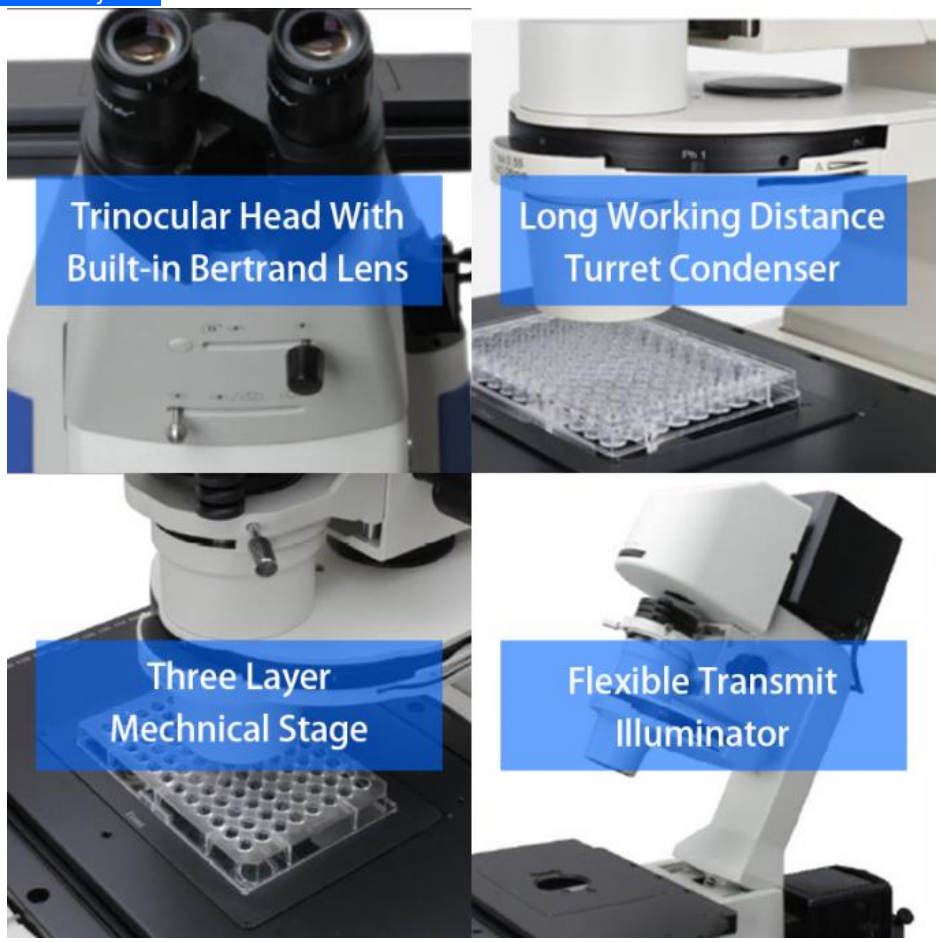

A14.1096
Inverted Laboratory
Microscope,
Semi-APO, BF/DF/PH/PL/DIC


1.5X
Medial Changeable Lens
Transmit/Reflect
Illumination Switch Knob
TL
RL
10X
20X
40X
NOP
NOP
NOP
BF
NOP
G
B
U
NOP
70%
4.3 " LCD Information Touch Screen (A14.1097)

Transmit/Reflect Illumination Switch Knob
The illumination control knobs to switch transmit / epi-fluorescent reflect illumination are located on the right side of main body, for easy operation

Medial Changeable Lens
With built-in turret structure, 1x and 1.5x lens can be changed accordingly

4.3“ LCD Information Touch Screen (A14.1097) In Front of Main Body, For Easy Watch & Control in The Dark Working Condition.
--Show Objectives In Use In Nosepiece
--Show Cubes In Use In Multi Function Turret
--Brightness Memorize & Restore Function
--Touch To Adjust Brightness
--Touch To Set The System



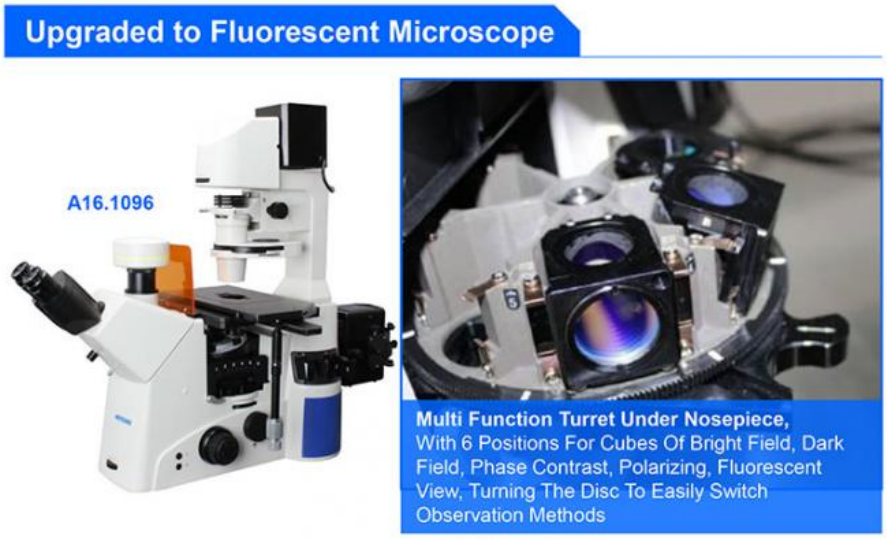
Trinocular Head With Built-in Bertrand Lens
The built-in bertrand lens can observe the pupil of the objective lens when moving into the light path, and act as a centering telescope

Flexible Transmit Illuminator
With retroverted Illuminator, thereby ensuring large space for operation and sample exchange

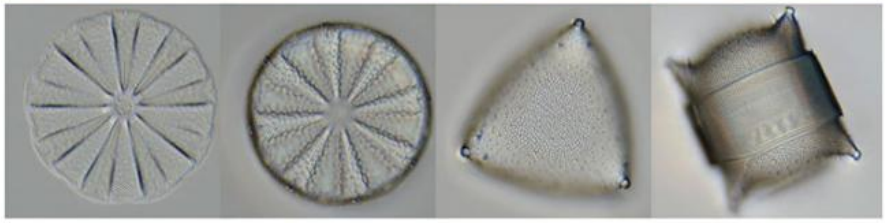
Long Working Distance Turret Condenser
LWD turret structure, with 6 positions for phase contrast annulus, DIC annulus, & bright field view, meets various test needs. condenser N.A.0.55, W.D.26mm

Camera Adapter At Both Sides & Trinocular Head

The optical path output selection dial can distribute the optical images to different ports, providing expansion space for more optical image applications

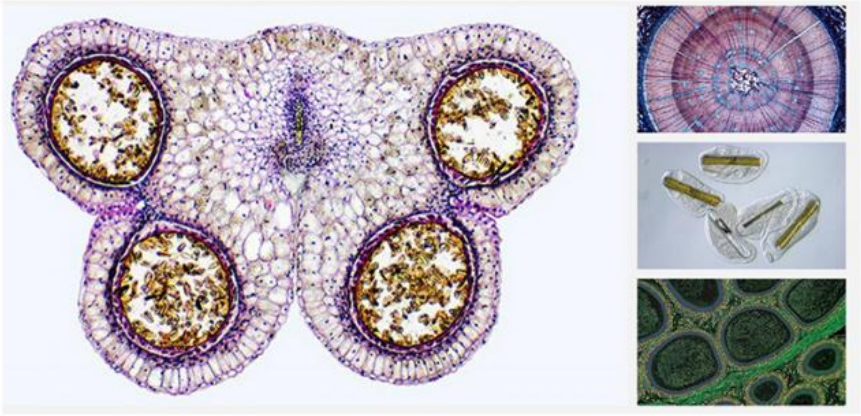


A14.1096 True View



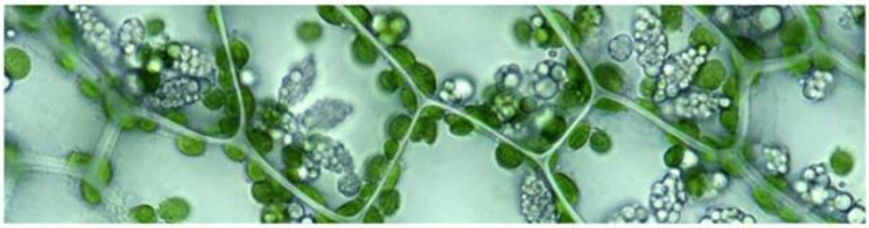
◆ Comments From Customer "The different shapes and ornamentation are truly beautiful!"

Modular Design



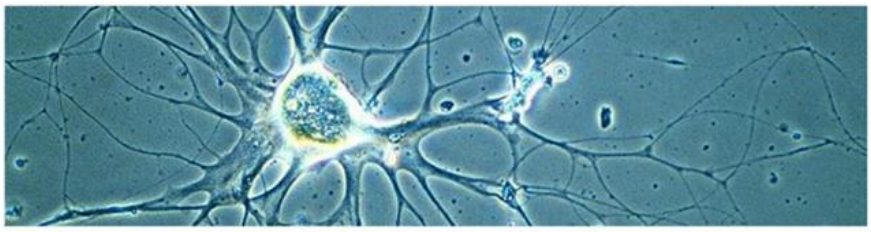
◆ **Bright Field Observation**

Unique infinity optical system, combined with semi-apochromatic fluorescent objective lens, effectively eliminates field curvature, chromatic aberration, spherical aberration, coma and other imaging problems, the image is brighter, all magnifications can achieve higher super-resolution and flat type



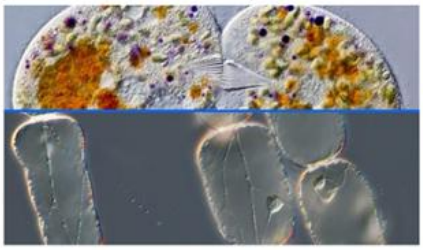
◆ **Phase Contrast Observation**

Phase contrast is an optical contrast technology that uses a phase contrast objective lens and a condenser ring. The high-efficiency halogen lamp can provide a bright light source and obtain clear images even at high magnification



◆ DIC

It is a very cost-effective optical technology. It does not require expensive optical components. The relief contrast only uses a brightfield objective lens and two phase contrast adjustment sliders. For thicker samples, such as induced pluripotent stem cells, DIC can provide Three-dimensional glare-free images, while the use of traditional phase contrast observation methods usually appear halo. In addition, DIC can use glass petri dishes, which is a very practical observation technique.



Product Accessories

◆ Photo Adapter

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

◆ A5C.1098 N-iPLFN PH Infinity Plan Semi-APO Phase Contrast Objective

Multi-layer coating technology, semi-apochromatic objective lens can compensate spherical aberration and chromatic aberration from ultraviolet to near infrared. The 20x and 40x semi-apochromatic objectives have a built-in correction ring that can correct for poor coverage caused by nonstandard cover glass thickness. Highly sensitive fluorescence performance ensures the sharpness, clarity and color reproduction of collected images

◆ Different Size Small Stage Holders

Research Level Inverted Biological Microscope		A14.1096	A14.1097	A16.1096	A16.1097	A16.1098	Cata.No.
Optical System	NIS60 Infinite Optical System, Semi-APO	●	●	●	●	●	
Observation Method	Bright Field	●	●	●	●	●	
	Dark Field	-	-	○	○	○	
	Phase Contrast	●	●	●	●	●	
	Polarizing	●	●	●	●	●	
	Flourescent	○	○	●	●	●	
	DIC	○	○	○	○	○	
LCD Screen	4.3" LCD Information Touch Screen In Front of Main Body, For Easy Use in Dark Working Condition. --Show Objectives In Use In Nosepiece --Show Cubes In Use In Multi Function Turret --Brightness Memorize & Restore Function --Touch To Adjust Brightness --Touch To Set The System	-	●	-	●	○	
Head	Seidentopf Trinocular Head, Inclined 45°, Interpupillary Distance 47-78mm, Ligth Split Switch E100:P0/E20:P80/E0:P100, With Built-in **Bertrand** Lens Which Can Be Used As Centering Telescope	●	●	●	●	●	
	SW10x/25mm, High Eyepoint, Diopter Adjustable, Dia.30mm	○	○	○	○	○	A51.1090-1025
	SW10x/22mm, High Eyepoint, Diopter Adjustable, Dia.30mm	●	●	●	●	●	A51.1090-1022

Eyepiece	EW12.5x/17.5mm, High Eyepoint, Diopter Adjustable, Dia.30mm	○	○	○	○	○	A51.1090-12516
	WF15x/16mm, High Eyepoint, Diopter Adjustable, Dia.30mm	○	○	○	○	○	A51.1090-1516
	WF20x/12mm, High Eyepoint, Diopter Adjustable, Dia.30mm	○	○	○	○	○	A51.1090-2012
Media Lens	Built-in Media Lens Turret 1.0x, 1.5x, Under Nosepiece	●	●	●	●	-	
	Built-in Media Lens Turret 1.0x, 1.5x. CF, Under Nosepiece	-	-	-	-	●	
Nosepiece	Manual Sextuple Nosepiece, With DIC Slot	●	-	●	-	-	
	Coded Manual Sextuple Nosepiece, With DIC Slot	-	●	-	●	-	
	Motorized Coded Manual Sextuple Nosepiece, With DIC Slot, With Objective Protection Function When Switch The Objectives	-	-	-	-	●	
N-iPLFN PH Infinity Plan **Semi-APO** Phase Contrast Objective	4x/0.13, W.D.16.5mm, No Cover Glass	○	○	○	○	○	A5C.1098-4
	10x/0.30, W.D.7.4mm, Cover Glass 1.2mm	●	●	●	●	●	A5C.1098-10
	20x/0.45, W.D.7.5-8.8mm, Cover Glass 0-2mm, With Built-in Correct Ring	●	●	●	●	●	A5C.1098-20
	40x/0.6, W.D.3-4.4mm, Cover Glass 0-2mm, With Built-in Correct Ring	●	●	●	●	●	A5C.1098-40
	60x/0.75, W.D.1.8-2.6mm, Cover Glass 0.1-1.3mm, With Built-in Correct Ring	○	○	○	○	○	A5C.1098-60
Focusing	Coaxial Coarse & Fine Focusing, Focusing Range 9mm (Up 7mm, Down 2mm), Coarse Stroke 2mm, Fine Stroke 0.2mm	●	●	●	●	-	
	Motorized Z Axies (Optical Grating Type) Focusing System, Focusing Range 9mm (Up 7mm, Down 2mm), Focusing Resloution 0.02um With Optical Grating, Movement Repeat Positioning Accuracy +/-0.1um, Prevent Stage Fall Down Function	-	-	-	-	●	
Working Stage	Three Layer Mechnical Stage, Moving Range 130x85mm, Flexible Knob, Available For Different Size Small Stage Mounted on Top Layer	●	●	●	●	-	A54.1098
	Motorized X/Y Axies (Optical Grating Type) Mechnical Stage, Size 325x144mm, Moving Range 130x100mm, Max Speed 10mm/s, Resloution 0.1um, Repeat Accuracy +/-0.5um, Available For Different Size Small Stage Mounted on Top Layer, With Separate Communication/Main Control Box & Stick	-	-	-	-	●	A54.1098-M
	Dia.38mm Holder For Slide & Petri Dish	●	●	●	●	●	A54.1098-38
	Dia.54mm Holder For Petri Dish	●	●	●	●	●	A54.1098-54
	96 Holes Plate Holder	●	●	●	●	●	A54.1098-96
	Terasaki Holder	●	●	●	●	●	A54.1098-TH
	Universal Holder	●	●	●	●	●	A54.1098-UH
Condenser	Long Working Distance Turret Condenser, N.A.0.55, W.D.26mm, With 6 Positions For Phase Contrast Annulus, DIC Annulus, And Bright Field View	●	●	●	●	-	A56.1098
	Motorized Long Working Distance Turret Condenser, N.A.0.55, W.D.26mm, With 6 Positions For Phase Contrast Annulus, DIC Annulus, And Bright Field View	-	-	-	-	●	A56.1098-M
Multi Function Turret	Multi Function Turret Under Nosepiece, With 6 Positions For Cubes Of Bright Field, Dark Field, Phase Contrast, Polarizing, Fluorescent View, Turning The Disc To Easily Switch Observation Methods	●	●	●	-	-	
	Coded Multi Function Turret Under Nosepiece, With 6 Positions For Cubes Of Bright Field, Dark Field, Phase Contrast, Polarizing, Fluorescent View, Turning The Disc To Easily Switch Observation Methods	-	-	-	●	-	
	Motorized Coded Multi Function Turret Under Nosepiece, With 6 Positions For Cubes Of Bright Field, Dark Field, Phase Contrast, Polarizing, Fluorescent View, Turning The Disc To Easily Switch Observation Methods	-	-	-	-	●	
Dark Field	Dark Field Block, Put In Multi Function Turret, For Reflect Light Source	○	○	○	○	○	A5D.1098
	Polarizer Filter On LWD Turret Condenser	●	●	●	●	●	A5P.1098-P

Polarizing For Transmit Light	Analyzer Slide, Insert Into Slot On Nosepiece, 360° Rotatable	●	●	●	●	●	A5P.1098-A
Polarizing For Reflect Light	Polarizer Light Block, Put In Multi Function Turret	○	○	○	○	○	A5P.1098-PL
	Circularly Polarized Light Block, Put In Multi Function Turret	○	○	○	○	○	A5P.1098-CP
Phase Contrast	Phase Contrast Annulus 10x/20x, Put In Turret Condenser	●	●	●	●	●	A5C.1096-1020
	Phase Contrast Annulus 40x, Put In Turret Condenser	●	●	●	●	●	A5C.1096-40
	Phase Contrast Annulus 60x, Put In Turret Condenser	○	○	○	○	○	A5C.1096-60
DIC	DIC Annulus 10x, Put In LWD Turret Condenser	○	○	○	○	○	A5C.1097-A10
	DIC Annulus 20x, Put In LWD Turret Condenser	○	○	○	○	○	A5C.1097-A20
	DIC Annulus 40x, Put In LWD Turret Condenser	○	○	○	○	○	A5C.1097-A40
	DIC Annulus 60x, Put In LWD Turret Condenser	○	○	○	○	○	A5C.1097-A60
	DIC Slider 10x, Insert Into Slot On Nosepiece	○	○	○	○	○	A5C.1097-S10
	DIC Slider 20x, Insert Into Slot On Nosepiece	○	○	○	○	○	A5C.1097-S20
	DIC Slider 40x, Insert Into Slot On Nosepiece	○	○	○	○	○	A5C.1097-S40
	DIC Slider 60x, Insert Into Slot On Nosepiece	○	○	○	○	○	A5C.1097-S60
Illumniation	**Transmit/Reflect** Illumnation Switch Knob, On Right Side Of Main Body, Press To Switch Transmit And Reflect Switch Light Quickly	●	●	●	●	●	
Transmit Light Source	12V100W Halogen Kohler Illumination, Brightness Adjustable, Flexible Illuminator Body Can Retrovert From Optical Path For Large Space of Operation And Sample Exchange	●	●	●	●	●	A56.1095-12V100W
	10W S-LED Kohler Illumination, Brightness Adjustable	○	○	○	○	○	A56.1095-10WLED
Reflect Light Source	Large Filter Holder Slide With 3 Holes	○	○	●	●	●	A56.1095-LS
	Field Diaphram Slide, Center Adjustable,	○	○	●	●	●	A56.1095-FS
	Small Empty Slide	○	○	●	●	●	A56.1095-ES
	Aperture Diaphragm Slide	○	○	●	●	●	A56.1095-AS
	Neutral Filter	○	○	●	●	●	A56.1095-NE
Reflect Fluorescent Light Source	Reflect 100W Osram Mercury HBO Fluorescent Light House Intelligent Power Supply Control Box With Barrier To Stop/Recover Fluorescent Illumination Quickly	○	○	●	●	●	A5F.1095-100W
	10W S-LED Fluorescent Light, 4 Color Bands, Brightness Adjustable By Control Box	○	○	○	○	○	A5F.1095-10WLED
	75W Metal Halide Light Source, Life Time 2000 Hours	○	○	○	○	○	A5F.1095-75WM
	Fluorescent Filter B Block, Put In Multi Function Turret	○	○	●	●	●	A5F.1095-B
	Fluorescent Filter G Block, Put In Multi Function Turret	○	○	●	●	●	A5F.1095-G
	Fluorescent Filter U Block, Put In Multi Function Turret	○	○	●	●	●	A5F.1095-U
	Fluorescent Filter V Block, Put In Multi Function Turret	○	○	○	○	○	A5F.1095-V
Metallurgical	Upgrade To **A13.1090** Inverted Metallurgical Microscope	○	○	○	○	○	**A13.1090**
Adapter	3 Camera Ports, On Both Side Of Main Body And Head, Turret Switch Between: --Trinocular Port Switch E100:P0/E20:P80/E0:P100 --Left Port C-Mount 1.0x E0:P100 --Right Port C-Mount 1.0x E20:P80	●	●	●	●	●	
	C-Mount 0.4x	○	○	○	○	○	A55.1095-04
	C-Mount 0.5x	○	○	○	○	○	A55.1095-05
	C-Mount 1.0x	●	●	●	●	●	A55.1095-10
Software	NOMIS Basic Image Processiing Software	○	○	○	○	○	A30.1090
Note:"●"In Table Is Standard Outfits,"○" Is Optional Accessories "-" Is Unavailable							

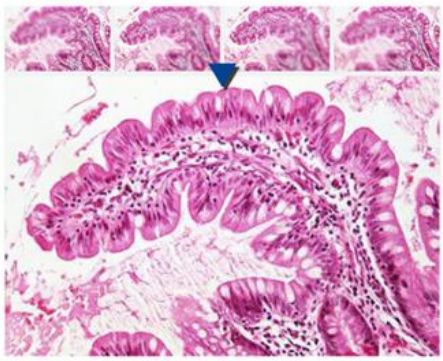
Software Function

◆ Measurement Function

In cell observation and section observation, you need to use the measurement function. To determine the cell size, cell gap, synapse length and other data. The software can provide measurement of distance, angle, rectangle, circle, ellipse, etc.

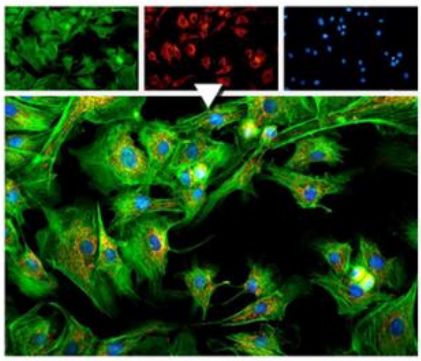
◆ Cell Counts

Customize cell counting requirements, automatically count and count the shape information of cells, including: size, location, volume, circumference, brightness, etc. And all data including processed images can be saved as excel sheet



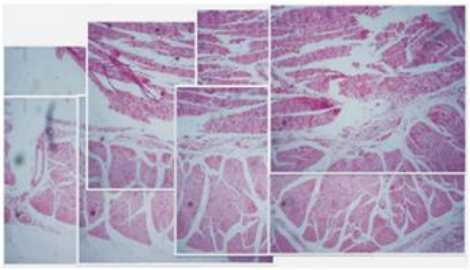
◆ Depth Of Field Fusion

Users can collect multiple images with different focal lengths by fine-tuning the focal length, and synthesize one image for output. Suitable for specimens that require a certain depth of field or poorly made sections



◆ Fluorescence image synthesis

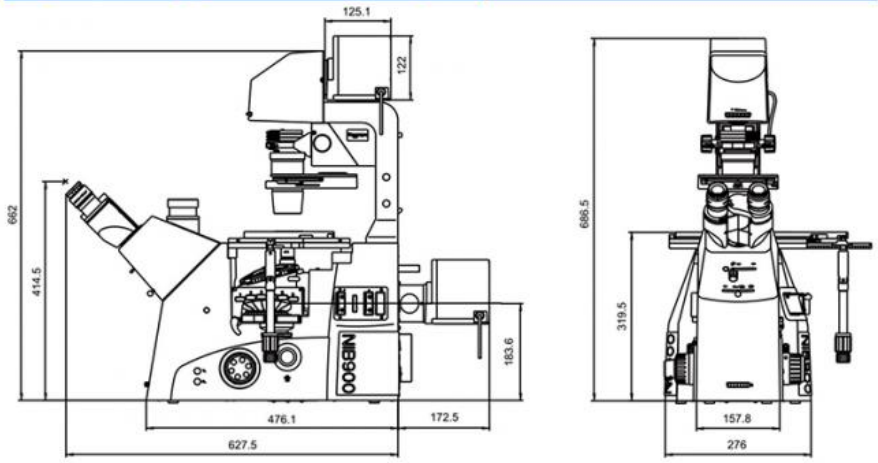
By collecting or importing images of different fluorescence channels, users can obtain images after fluorescence synthesis. For the image of each channel, the displacement in the x direction and y direction can be adjusted to achieve the fine-tuning effect

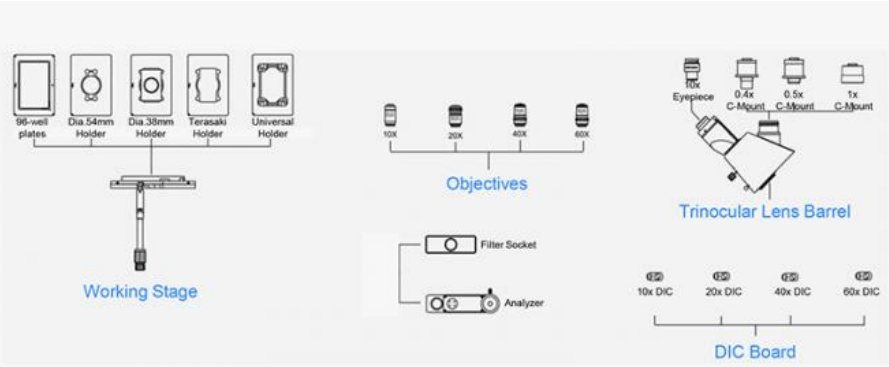


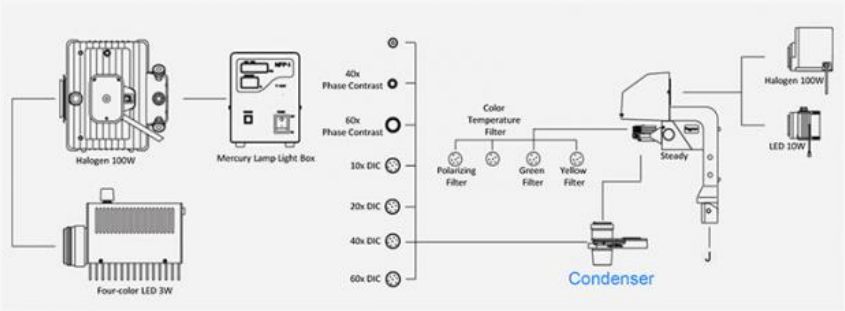
◆ Quick Splicing

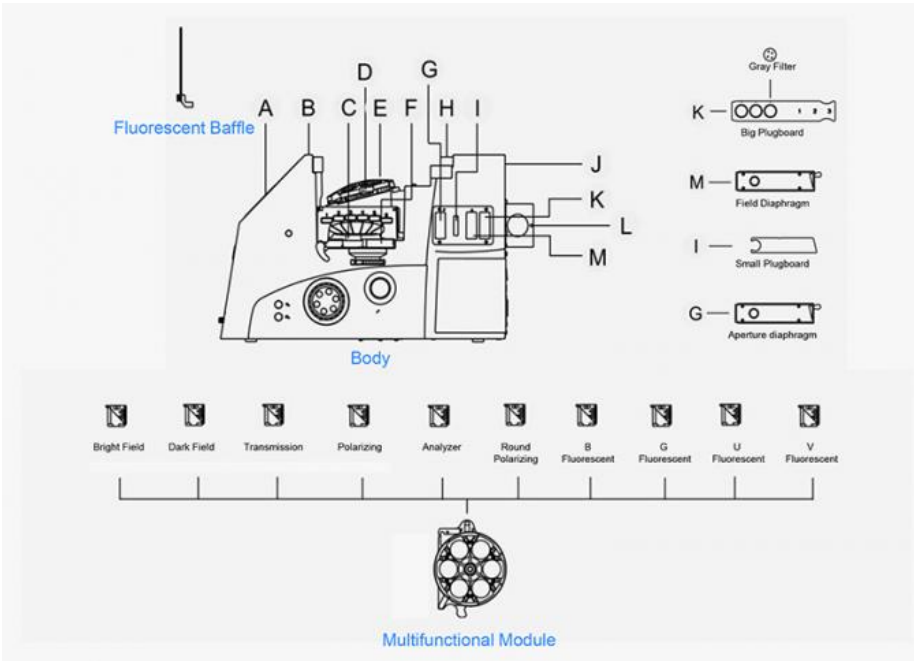
By collecting and importing images in real time, the software can quickly stitch together to form a large-size and high-resolution image

System Diagram & Size(mm)









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