



A16.1095

Upright Fluorescent Microscope, Semi-APO, Full Motorized



A12.1095, A16.1095 Series Microscope



A12.1095
Laboratory Microscope,
Full-Auto

A16.1095 Series Microscope

Intelligent revolutionary products, Operating comfort ergonomics design, Fast and efficient imaging for laboratory and clinical operation, Microscope applications has brought a revolutionary breakthrough.



A16.1095-LM
Fluorescent Microscope,
LED + Mercury



A16.1095-LL
Laboratory Microscope,
LED + LED



Seidentopf Trinocular Head

Ergo Tilting Trinocular Head, Inclination 0° ~ 35° ,
Interpupillary Distance 47-78mm, 3 Level Light Split Switch
E100:P0/E20:P80/E0:P100



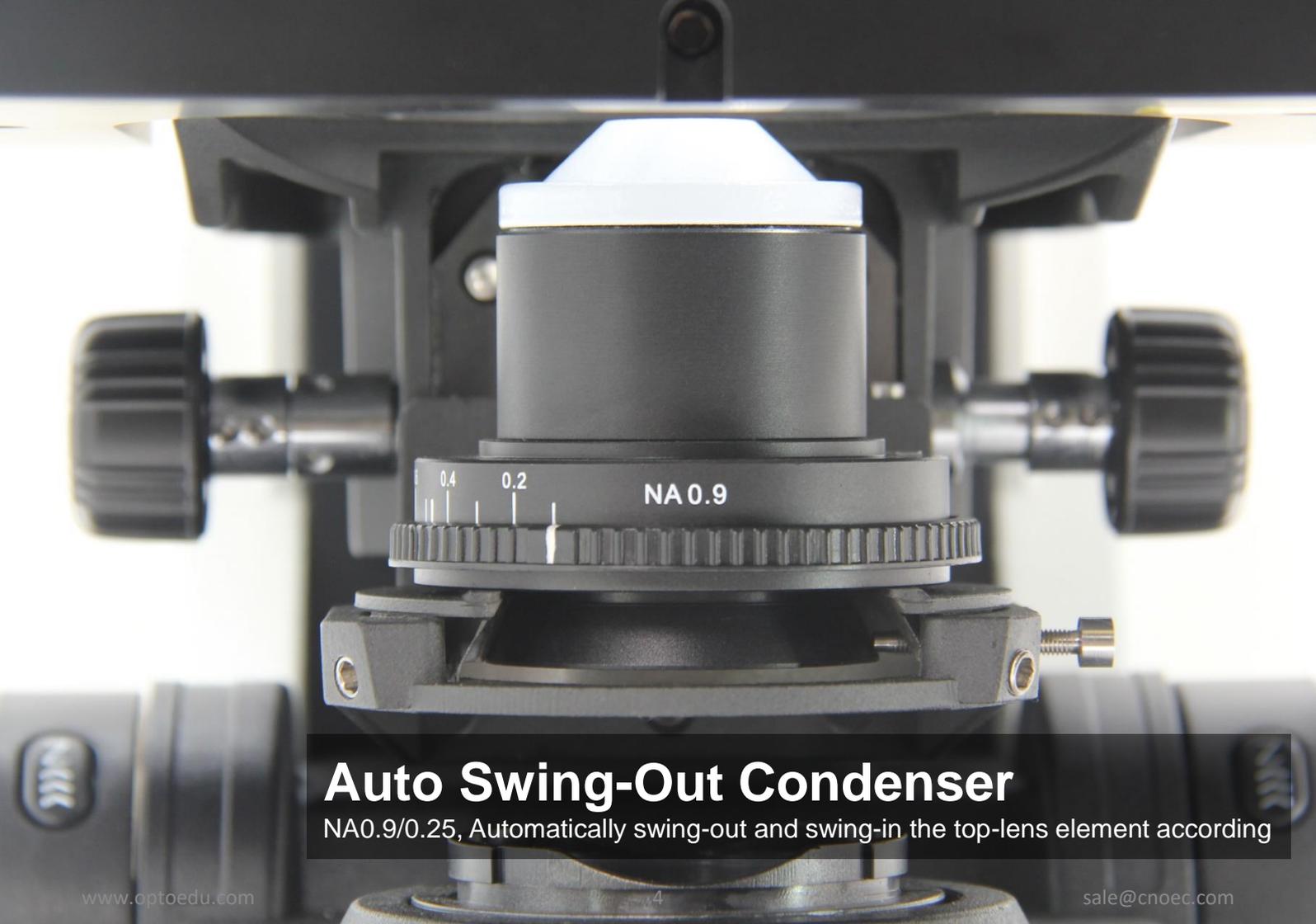
Auto Coded Nosepiece

With Slot For Polarizing Compensator Slider Or DIC Slider,
NIS60 N-PLN Infinity Plan Objective

A close-up view of a microscope's stage. The stage is black and holds four glass slides. Above the slides, the objective lenses of the microscope are visible, with labels such as '10x' and 'N.S. 60'. The microscope body is white and black.

Full-Auto X/Y/Z Motorized Control Working Stage

Flexible platform control program can meet a variety of sports needs. Matching control rocker, powerful, easy to operate

A close-up view of the microscope's condenser. The condenser is black and has a white lens element at the top. Below the lens, there is a scale with markings for '0.4' and '0.2'. The text 'NA 0.9' is printed on the condenser. The condenser is mounted on a black base with two large black knobs on either side.

Auto Swing-Out Condenser

NA0.9/0.25, Automatically swing-out and swing-in the top-lens element according



Speed Control & Objective Convert Button

The hand wheel buttons on both sides work independently, and different focusing speeds can be set respectively
Quickly switch objectives during binocular observation



ESC: Relative coordinate zero point
LIMIT: Temporary upper limit

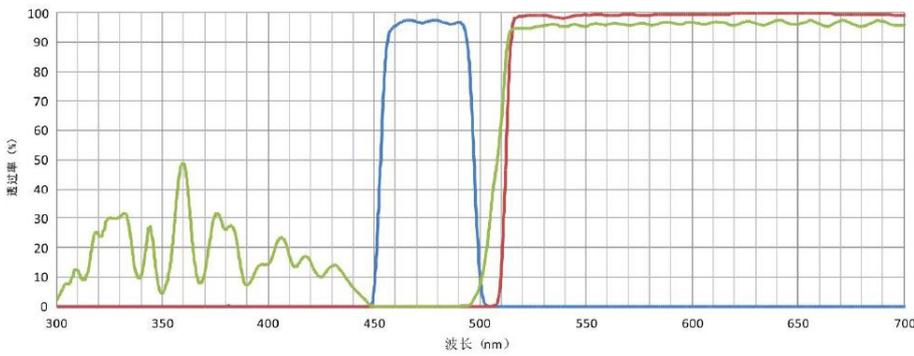
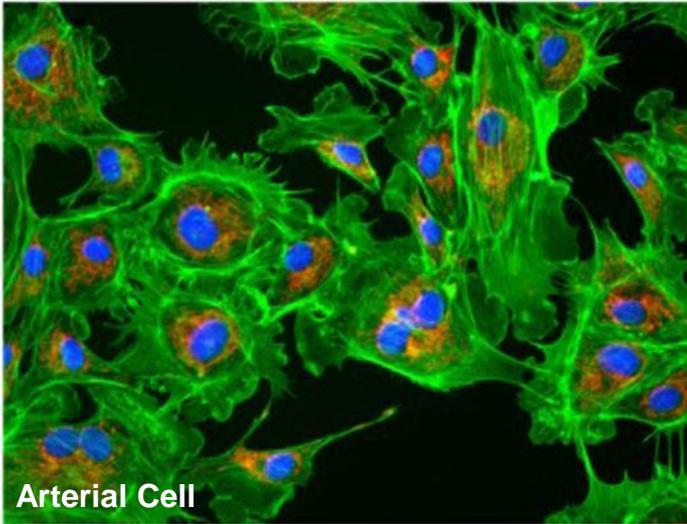


Touch Screen

which can be used for focusing, adjusting light intensity, setting limit and converting objective lens

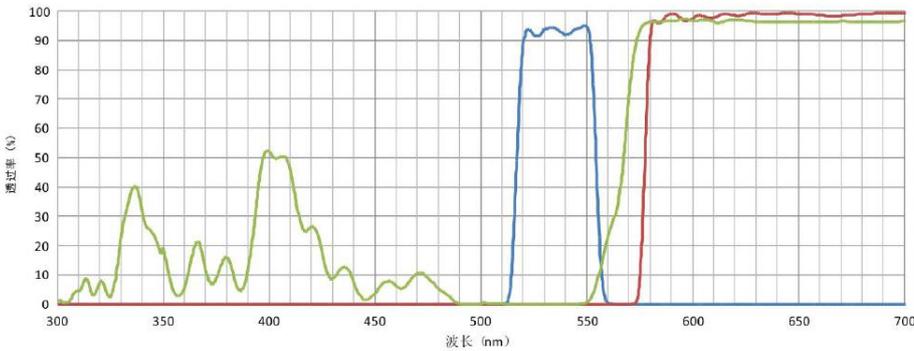
◆ Fluorescent Viewing

The compact epi-fluorescent components includes noise elimination feature which ensures images captured are bright, with high contrast and high signal-to-noise ratio.



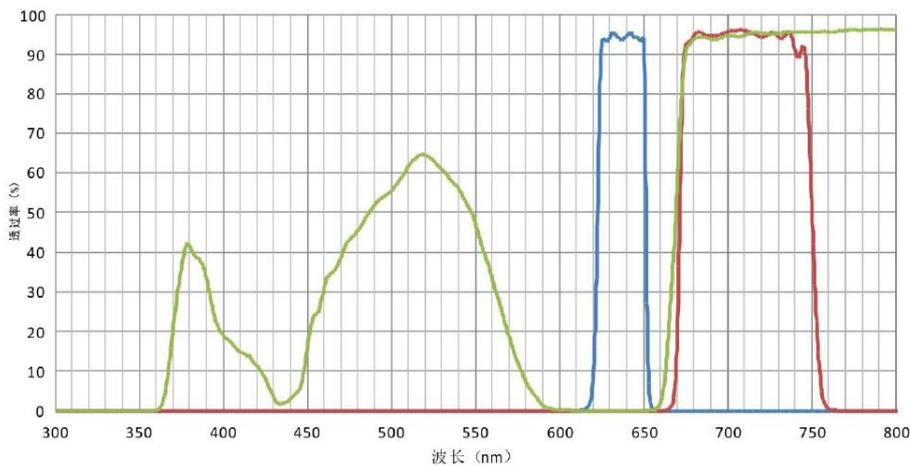
FL-B

- BP 460-495
- DM 505
- BA 510IF



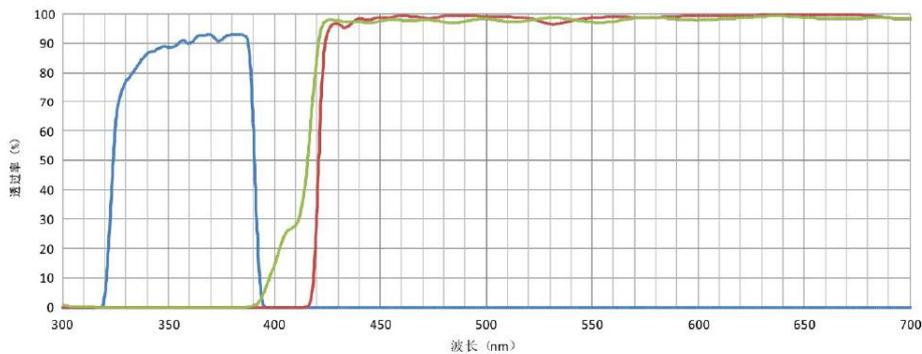
FL-G

- BP 510-550
- DM 570
- BA 575IF



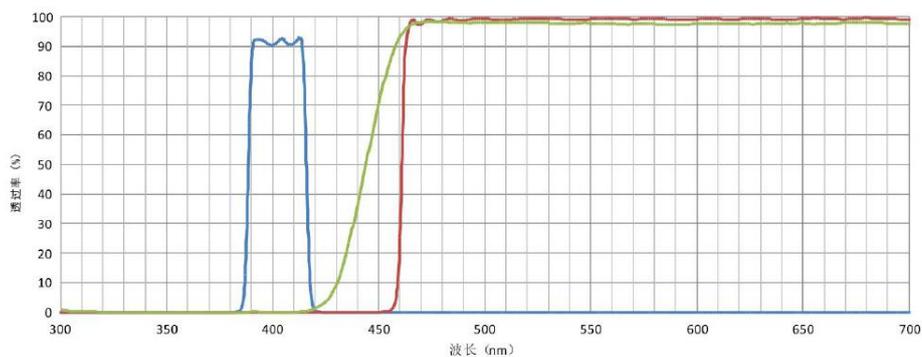
FL-R

- BP 620-650
- DM 660
- BA 670-750



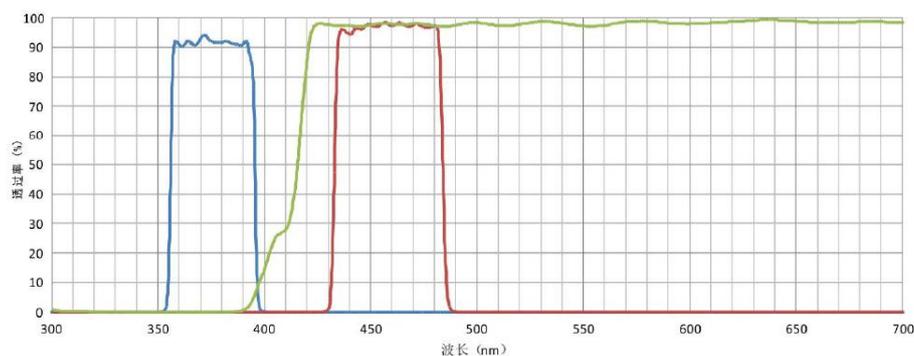
FL-U

- BP 330-385
- DM 410
- BA 420IF



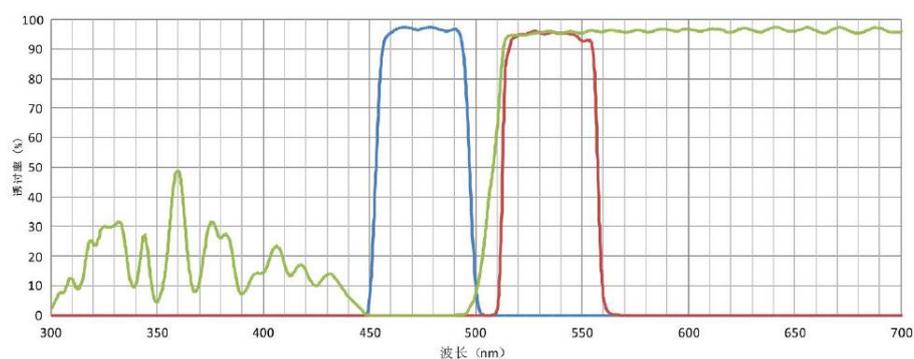
FL-V

- BP 400-410
- DM 455
- BA 460IF



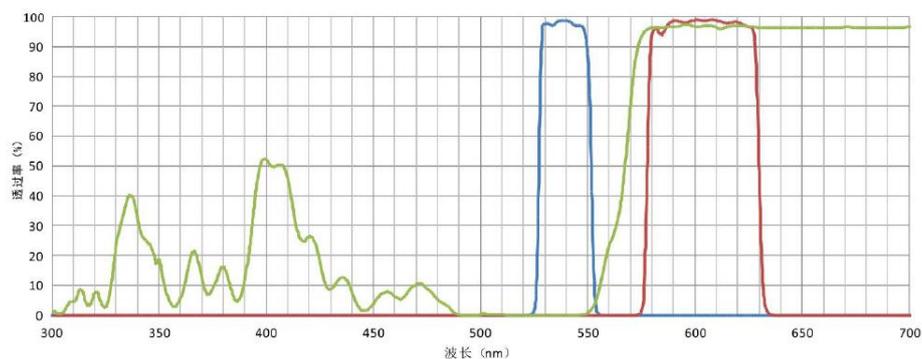
FL-DAPI

- BP360-390
- DM415
- BA435-485



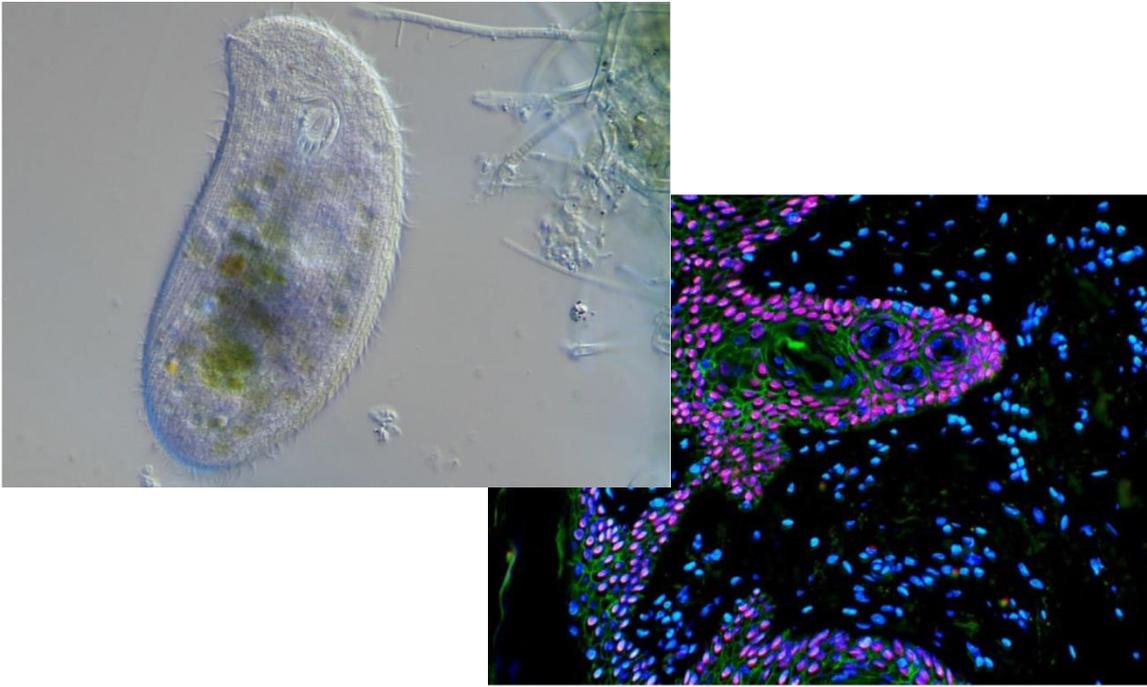
FL-FITC

- BP460-495
- DM505
- BA510-550



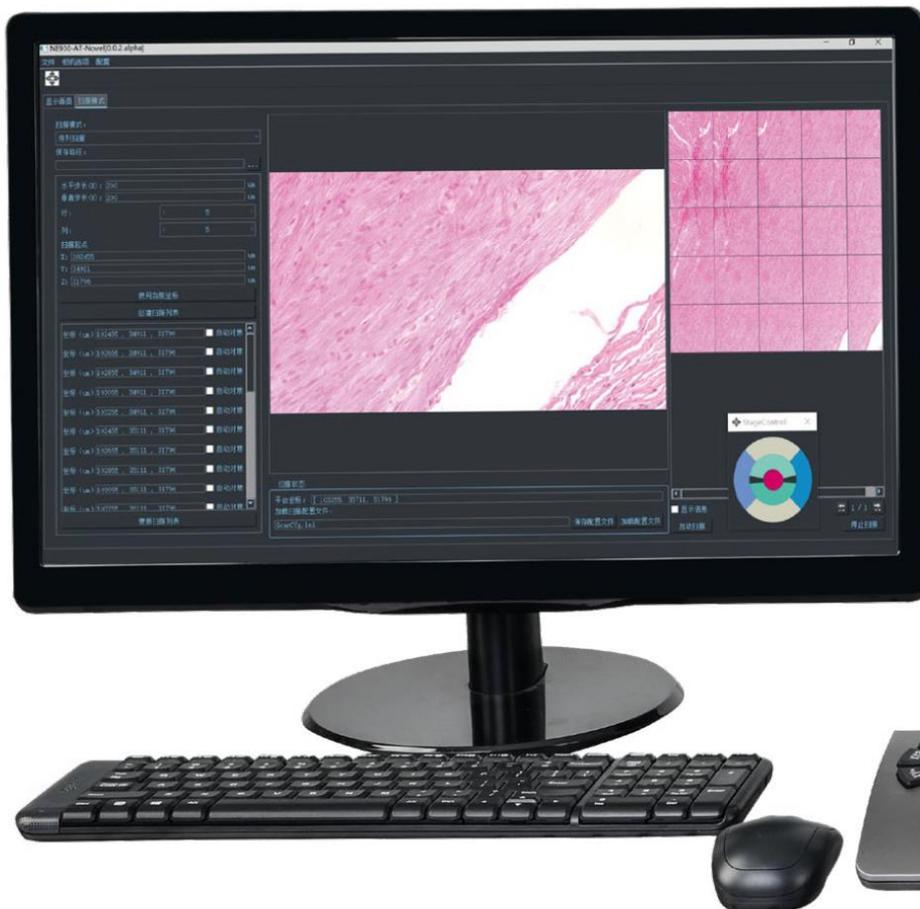
FL-TRITC

- BP528-553
- DM565
- BA578-633

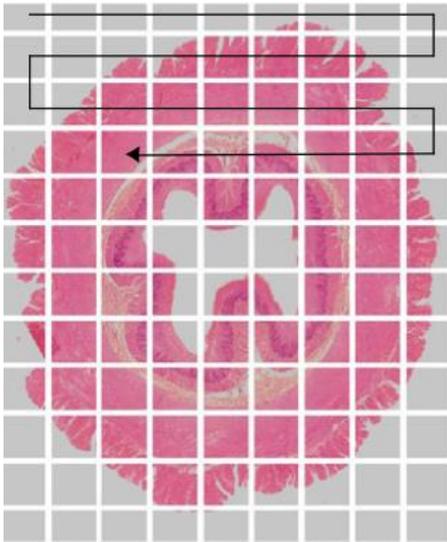


Motorized Control Software And Microscopic Imaging System
 It provides integrated control for microscope, camera, electric platform and various components, including electric control, auto focusing, sequence scanning, fixed-point scanning, surface fitting scanning and etc.

Full field of view focus scanning and other functions. With simple and intuitive interface, fast and flexible data acquisition method, combined with the Nomis basic imaging analysis software, the system can realize the measurement, data acquisition and data processing Synthesis and data recording.



Full View Field Focusing Scan



Full View Field Focusing Scan



Full View Field Focusing Fusion Image

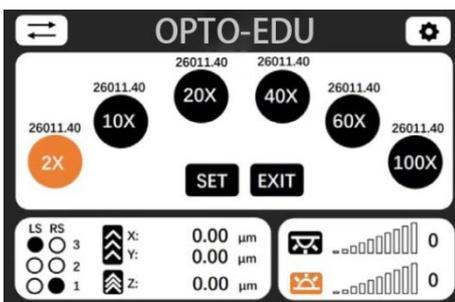
Auto Light Intensity Management

The Management system can automatically adjust to the suitable light intensity according to the different setup of objectives from the low to high magnifications, and reduce the eye fatigue at the same time. The long-life LED lamp can keep the light intensity and easy for maintenance.

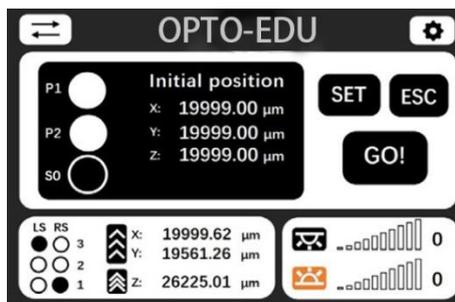


Touch Control Screen, Saving Space, Flexible Control

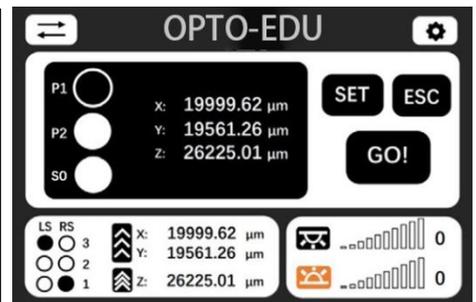
The front touch control screen integrated with the microscope does not occupy the desktop position. The interface is simple and easy to operate, and the programmable control simplifies the repeated observation and imaging process. Powerful functions: three axis coordinate display, speed gear display, objective electric switch, objective double hole directional switch, position memory and return, relative coordinate display, objective focus compensation, temporary upper limit setting, platform escape and recovery, display day / night mode, etc.



Objective Confocal Compensation:
Each objectives focus distance will be memorized, when switch objectives, Z axie control will automatically restore to correct focus distance to get clear image



Location memory and return:
2 location memory points and 1 location memory point can be set. The initial position point is used to mark the key observation position.



Platform escape and return:
One Key Return can be set between current position and zero point of coordinate, enable switch slide more convenient and easy

Product Accessories

N-PLN Series Plan Objectives

These plan objectives can provide flat image through the light from visible light to NIRS. They are usually used for bright-field viewing as the high signal-to-noise, high resolution and high contrast image result

N-PLFN Series Plan Fluorescent Objectives

Owe to the multilayer coating technology, these S-APO objective can compensate the spherical aberration and the chromatic aberration from ultraviolet to infrared light. High-sensitive fluorescence ensure the acuity, articulation and color reduction of image, to provide the digital image of high-quality and high-function.

N-PLM Series Plan PH Objectives

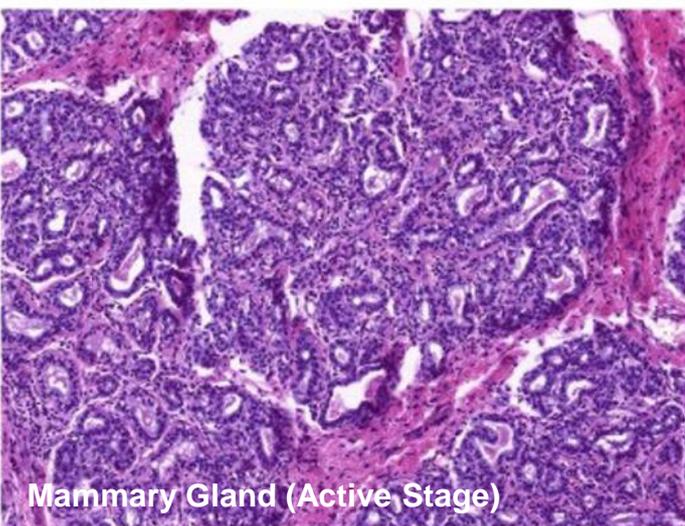
They are the good choice for clinic and scientific research. These high-quality plan objective can provide advanced plan image of 25mm FOV under bright field & transmitted light. NIS60 series plan phase contrast objectives are specially designed for phase contrast viewing.

N-PLPN Series APO Plan Objectives

The newly-launched advanced **Apochromatic** objective lens has a high level of chromatic aberration correction capability, high resolution, and ensures a high level of wave phase aberration correction function in the full field of view. It is an ideal choice for routine laboratory observation work and digital imaging objectives.

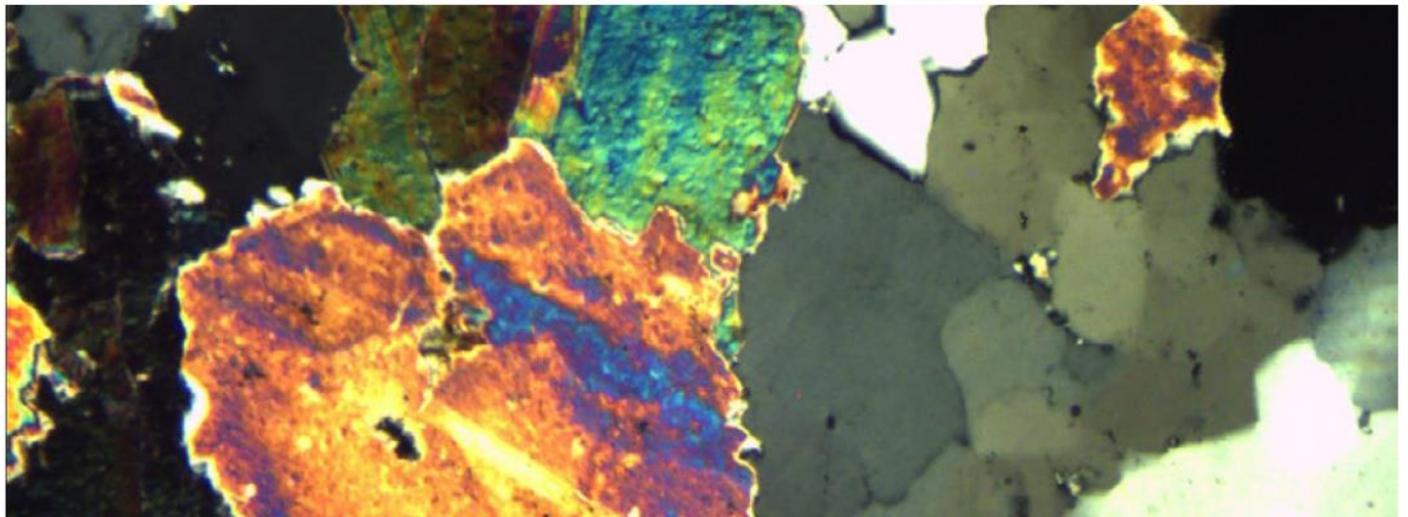
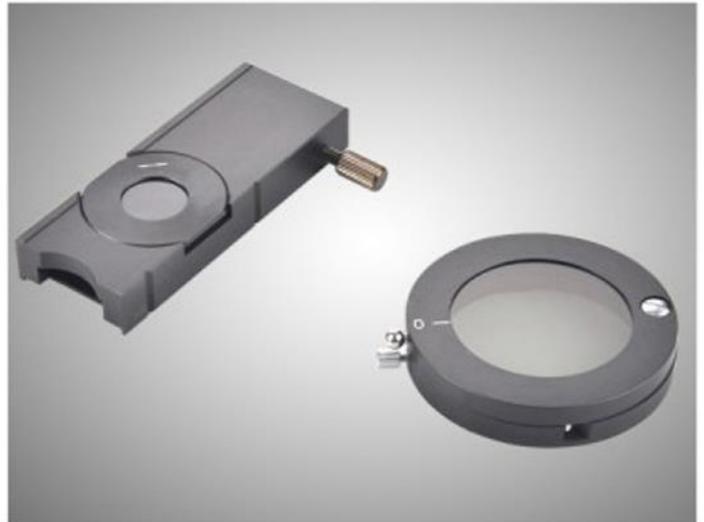
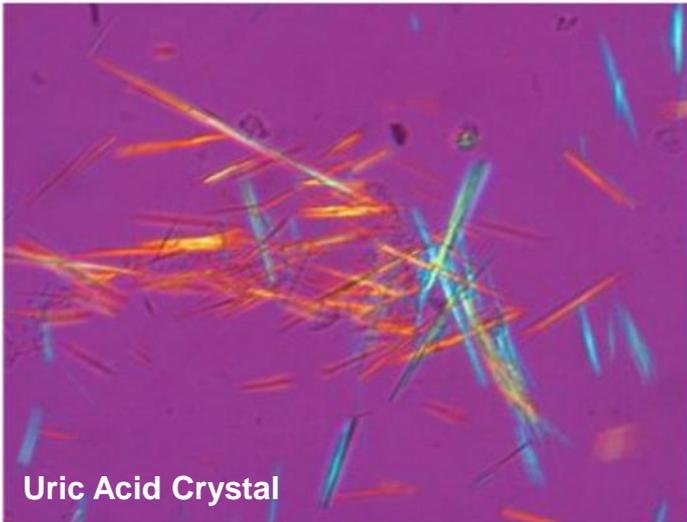
◆ Bright-field Viewing

Brighter image, high resolution and flatness, suitable for all the magnifications



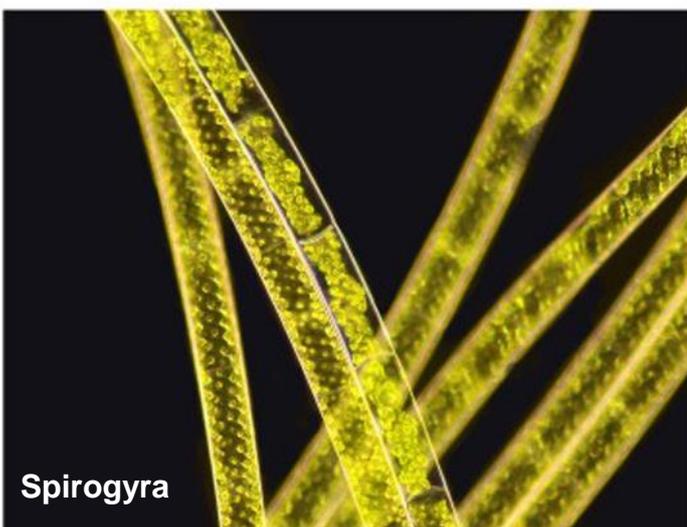
◆ Polarizing Viewing

It is quite suitable for viewing collagen, amyloid and crystal etc. double refracting specimen.



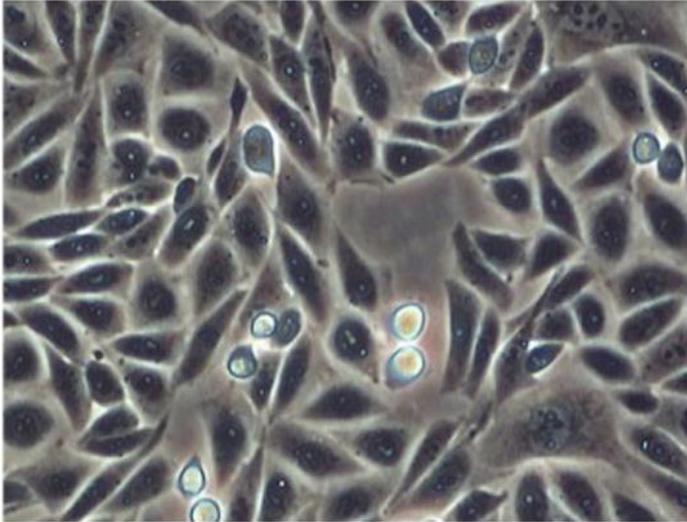
◆ Dark-field Viewing

It can be used for clearly viewing of blood or flagellum etc. fine structure.



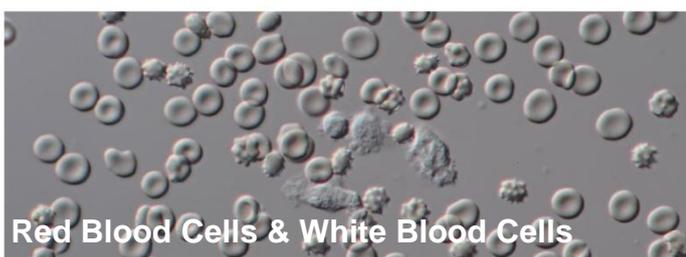
◆ Phase Contrast Viewing

Operators can get high contrast image of neutral background color whatever the magnifications are. It is suitable for viewing non-stained specimen.



◆ DIC Phase Contrast Viewing

DIC increases the contrast of the sample, and enables the nucleus and larger organelles such as mitochondria to have a strong three-dimensional effect, which is more suitable for micromanipulation. At present, it is mostly used for micromanipulation of gene injection, nuclear transfer, genetically modified animals and other bioengineering



Software Function



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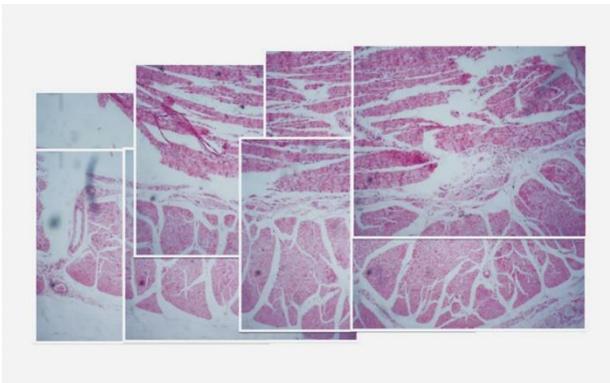


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With high speed USB3.0 digital camera and professional image processing software, Opto-Edu microscope can work with computer to get various advanced function done easily. Real Time / Static Measure, 2D Image Scan & Stitching, 3D Depth of Field Fusion, Fluorescent Image Synthesis, Cell Counting and etc

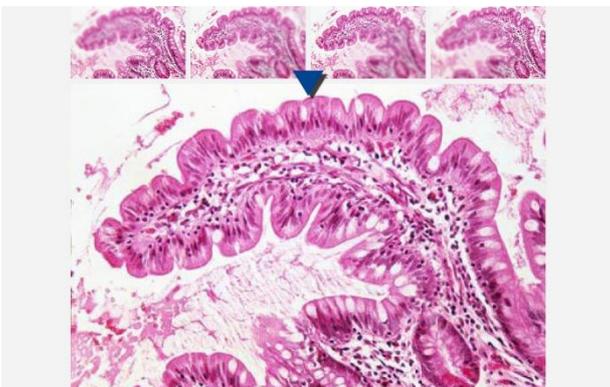
◆ 2D Image Scan & Stitching

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



◆ 3D 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



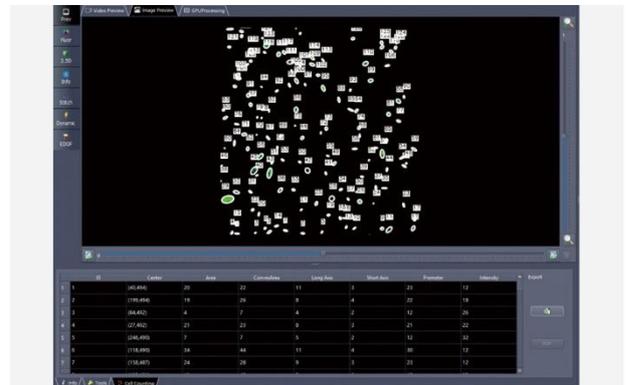
◆ Real Time / Static Measure

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.



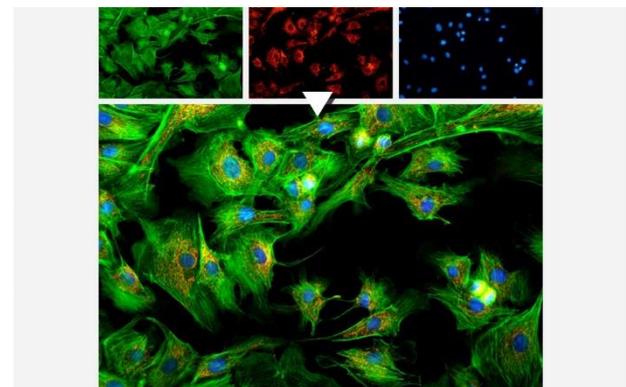
◆ Cell Counting

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



◆ Fluorescent 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



Product Specification



**A16.1095-LL
LED + LED**



**A16.1095-LM
LED + Mercury**



LED Fluorescent Light



Mercury Fluorescent Light

A16.1095 Research Level Fluorescent Laboratory Microscope

		A16.1095		Cata. No.
		LM	LL	
Optical System	NIS60 Infinity Optical System	●	●	
Observation Method	Bright Field	●	●	
	Dark Field	○	○	
	Polarizing	○	○	
	Phase Contrast	○	○	
	Flourescent	●	●	
	DIC	○	○	
Main Body	ATL Semi-Auto Body + LED Illumination. Auto Nosepiece + Auto Condenser + Auto Brightness Adjust	●	●	A54.1090-ATL
Head	Ergo Tilting Trinocular Head, Inclination 0°~35°, Interpupillary Distance 47-78mm, 3 Level Ligth Split Switch E100:P0/E20:P80/E0:P100	●	●	A53.1090-TT
Eyepiece	SW10x/25mm, High Eyepoint, Diopter Adjustable, Dia.30mm	●●	●●	A51.1090-1025
	SW10x/22mm, High Eyepoint, Diopter Adjustable, Dia.30mm	○	○	A51.1090-1022
	EW12.5x/16mm, High Eyepoint	○	○	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

Note: "●" In Table Is Standard Outfits, "○" Is Optional Accessories "-" Is Unavailable

Product Specification

A16.1095 Research Level Fluorescent Laboratory Microscope		A16.1095		Cata. No.
		LM	LL	
Nosepiece	Auto Coded Nosepiece, Sextuple, Backward, Motorized Switch Objectives, Controlled By: 1. Shortcut Button On Right Side Of Base, Can Switch 2 Preseted Objectives Quickly 2. Remote Control Pad In Front Of Base, Press Each Button To Switch Objectives And Adjust The Light Intensity Automatically. 2 Buttons Can Be Self-Defined For Most Commonly Used Objecives, Press Green Button Can Swap Between Them	●	●	A54.1091-6A
	With Slot For Polarizing Compensator Slider Or DIC Slider	●	●	
N-PLFN	PlanF S-APO 4x/0.13, W.D.16.5mm, Cover Glass 0.17mm	●	●	A5F.1091-4
Infinity Plan	PlanF S-APO 10x/0.30, W.D.8.1mm, Cover Glass 0.17mm	●	●	A5F.1091-10
Semi-APO	PlanF S-APO 20x/0.50, W.D.2.1mm, Cover Glass 0.17mm	●	●	A5F.1091-20
Fluorescent Objective	PlanF S-APO 40x/0.75, W.D.0.7mm, Cover Glass 0.17mm	●	●	A5F.1091-40
	PlanF S-APO 100x/1.30(Oil), W.D.0.15mm, Cover Glass 0.17mm	●	●	A5F.1091-100
Working Stage	Full-Auto X/Y/Z Motorized Control Working Stage, Including Control Joy Stick, --Travel Range X:125mm, Y:75mmm, --Minimum Step 0.1um --Re-Position Accurate +/-1.5um --Max Speed 25mm/s --Size: 275x239x44.5mm --Soft Stop, Mechanical Stop, Opto --Electro Switch Stop --Z Axis Re-Position Accurate: Average +/-1.5um, Near Focus +/-0.1um --Z Axis Max Speed 10r/s --3D Control Stick, 4 Speeds --Connection By USB2.0 & RS232 --Communication Speed 9600 bits	●	●	A54.1095-A
	Z Axis Upgrade With Optical Grating Ruler	○	○	A54.1095-B
Condenser	Auto Swing-Out Condenser NA0.9/0.25	●	●	A56.1091-A
Focusing	Coaxial Coarse & Fine Focusing, Fine Division 0.001mm, Focusing Range 35mm, Coarse Stroke 37.7mm, Fine Stroke 0.1mm, Can Exchange Hand Wheel Between Left/Righ	●	●	
Light Source	Transmit Kohler Illumination, Brightness Adjustable, 12V100W Halogen, External Lamp House	○	○	A56.1090-12V100W
	Transmit Kohler Illumination, Brightness Adjustable, 3W S-LED, Built-in Main Body	●	●	A56.1090-3WLED
	ECO Function Support Auto Power Off After 30 Mins From Operator Leave To Save Energy	●	●	A56.1090-ECO
	Auto Brightness Adjust, Brightness For Each Objective Can Be Memorized And Restored When Objective Is Selected	●	●	A56.1090-AB
Filter For Transmit Light	Filter Holder On Base, Can Hold 3 Filters	●	●	A56.1092-H
	Filter LBD	●	●	A56.1092-LBD
	Filter Green	●	●	A56.1092-G
	Filter Yellow	●	●	A56.1092-Y
	Filter ND6	●	●	A56.1092-ND6
	Filter ND25	●	●	A56.1092-ND25
Adapter	Eyepiece Adapter Dia.23.2mm	○	○	A55.1090-E
	C-Mount 1.0x	○	○	A55.1090-1.0x
	C-Mount 0.5x	○	○	A55.1090-0.5x
Software	NOMIS Basic Image Processiiing Software	○	○	A30.1090
Dark Field	Dark Field Condenser, N.A. 0.7~0.9, Dry	○	○	A5D.1090-D
	Dark Field Condenser, N.A. 1.25~1.36, Immersion	○	○	A5D.1090-I
	Dark Field Objective, Infinity Plan 100X, For Immersion Dark Field Observation	○	○	A5D.1030-3
	Dark Field Objective, Infinity Plan 100X, With Iris Diaphragm, For Immersion Dark Field Observation	○	○	A5D.1030-4

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Product Specification

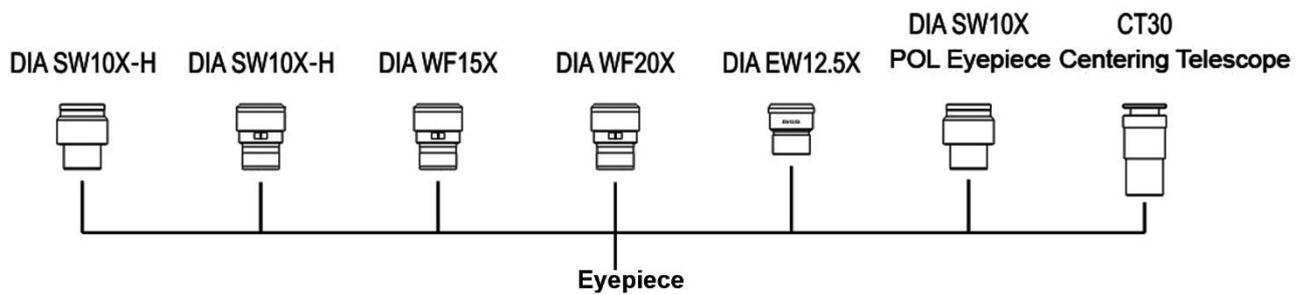
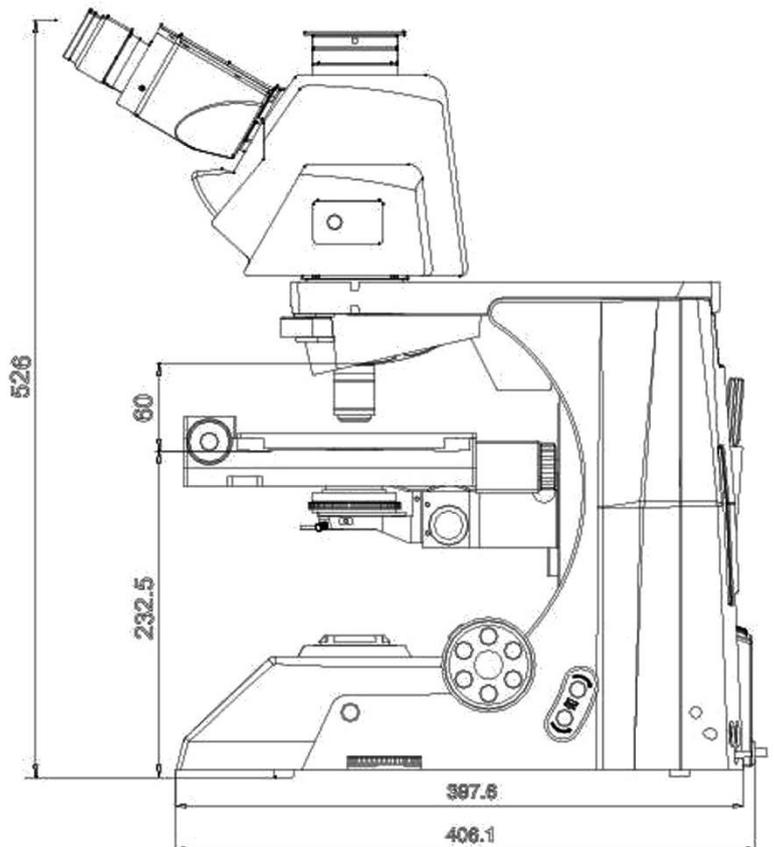
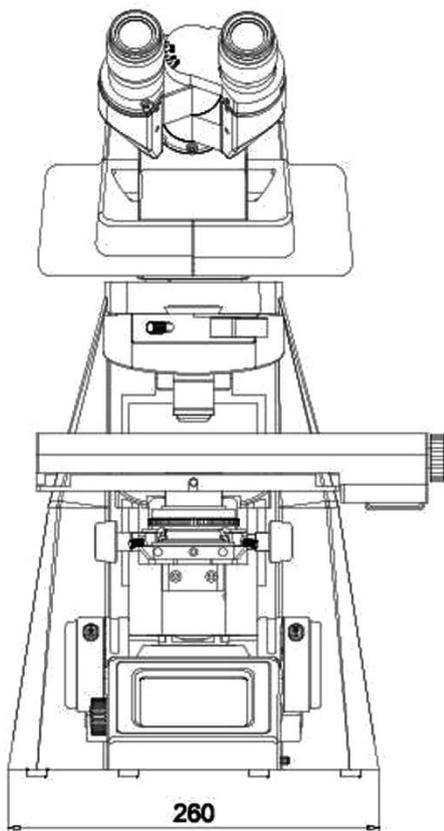
A16.1095 Research Level Fluorescent Laboratory Microscope		A16.1095		Cata. No.
		LM	LL	
Phase Contrast	Turret Phase Contrast Condenser, Center Adjustable	○	○	A5C.1090
	Centering Telescope 10x	○	○	A5C.1092
	Infinity Plan Phase Contrast Objective N-PLN PH 10x/0.25	○	○	A5C.1091-10
	Infinity Plan Phase Contrast Objective N-PLN PH 20x/0.40	○	○	A5C.1091-20
	Infinity Plan Phase Contrast Objective N-PLN PH 40x/0.65	○	○	A5C.1091-40
	Infinity Plan Phase Contrast Objective N-PLN PH 100x/1.25(Oil)	○	○	A5C.1091-100
DIC	Polarizer For Transmit Light Source	○	○	A5P.1090-TP
	Turret DIC Condenser	○	○	A5C.1095
	DIC Slide 10x, Used With Semi-APO Fluorescent Objective	○	○	A5C.1095-10
	DIC Slide 20x/40x, Used With Semi-APO Fluorescent Objective	○	○	A5C.1095-2040
	DIC Slide 100x, Used With Semi-APO Fluorescent Objective	○	○	A5C.1095-10
	DIC Slide With Analyzer 10x-20x	○	○	A5C.1095-1020P
	DIC Slide With Analyzer 40x-100x	○	○	A5C.1095-40100P
Fluorescent Attachment	Reflect Mercury Epi-Fluorescent Illuminator, Turret Disc With 6 Positions For Fluorescent Filter Block, With Protect Barrier	●	○	A5F.1090
	Power Supply Box 220V/110V Interchangeable, Digital Display	●	○	A5F.1090-100WH
	100W Mercury Lamp Housing	●	○	A5F.1090-100WP
	Reflect LED Epi-Fluorescent Illuminator, Turret Disc With 6 Positions For Fluorescent Filter Block, With Protect Barrier	○	●	A5F.1090-LED
	LED Light Source Module, For Fluorescent Filter B	○	●	A5F.1090-LB
	LED Light Source Module, For Fluorescent Filter G	○	●	A5F.1090-LG
	LED Light Source Module, For Fluorescent Filter U	○	●	A5F.1090-LU
	LED Light Source Module, For Fluorescent Filter V	○	●	A5F.1090-LV
	Fluorescent Filter B, BP460-490, BA520, DM500	●	●	A5F.1090-B
	Fluorescent Filter G, BP510-550, BA590, DM570	●	●	A5F.1090-G
	Fluorescent Filter U, BP330-385, BA420, DM400	●	●	A5F.1090-U
	Fluorescent Filter V, BP400-410, BA455, DM455	●	●	A5F.1090-V
	Fluorescent Filter FITC, BP460-495, BA510-550, DM505	○	○	A5F.1090-FITC
	Fluorescent Filter DAPI, BP360-390, BA435-485, DM415	○	○	A5F.1090-DAPI
	Fluorescent Filter TRITC, BP528-553, BA578-633, DM565	○	○	A5F.1090-TRITC
	Fluorescent Filter R, BP620-650, BA670-750, DM660	○	○	A5F.1090-R
	Fluorescent Filter Empty Block	○	○	A5F.1090-E
	Filter ND6	●	●	A5F.1090-ND6
	Filter ND25	●	●	A5F.1090-ND25
	Centering Plate	○	○	A5F.1090-01
Protect Cover For Reflect Fluorescent Light, Placed On Light Collectory On Stand, For Auto Model	○	○	A5F.1090-02	
Other Accessories	Working Stage Holder Bracket	●	●	A54.1096
	Adapter To Adjust Eye Position	○	○	A54.1096-A1
	Adapter To Lower The Stage Position 1"	○	○	A54.1096-A2
	Immersion Oil	●	●	A50.1090-01
	Allen Wrench	●	●	A50.1090-02
	Power Cord	●	●	A50.1090-03
	Short Eye Cover, For Eyepiece	○	○	A50.1090-04
	Long Eye Cover, For Eyepiece	○	○	A50.1090-05
	Eyepiece Micrometer, Cross	○	○	A50.1090-06
	Adapter Ring To Install Eyepiece Micrometer	○	○	A50.1090-07
	USB Cable	○	○	A50.1090-08

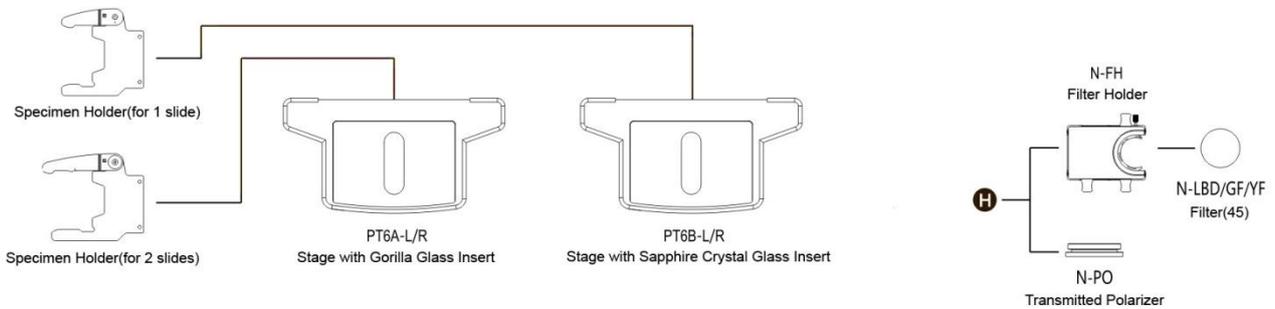
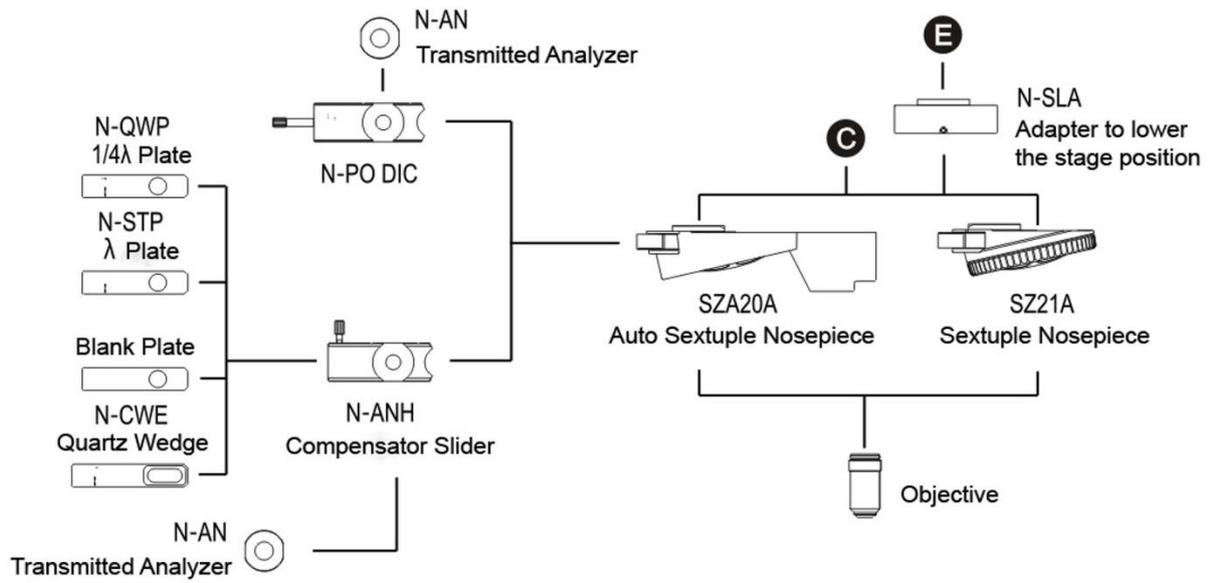
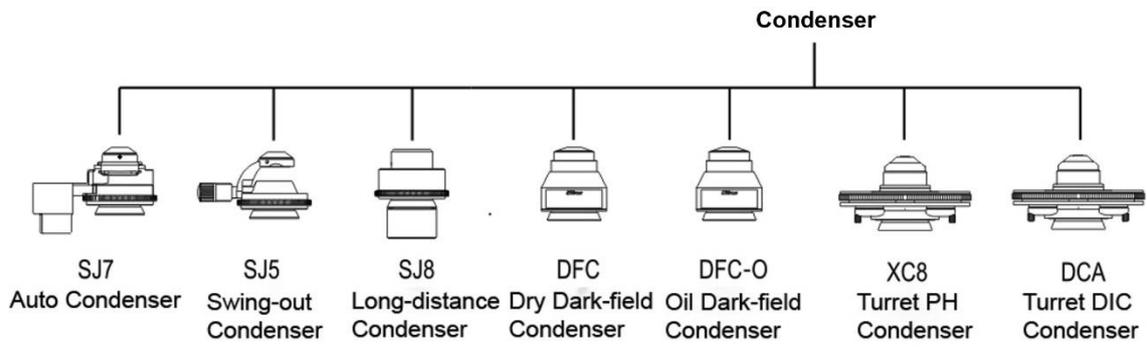
Note: ● In Table Is Standard Outfits, ○ Is Optional Accessories "-" Is Unavailable



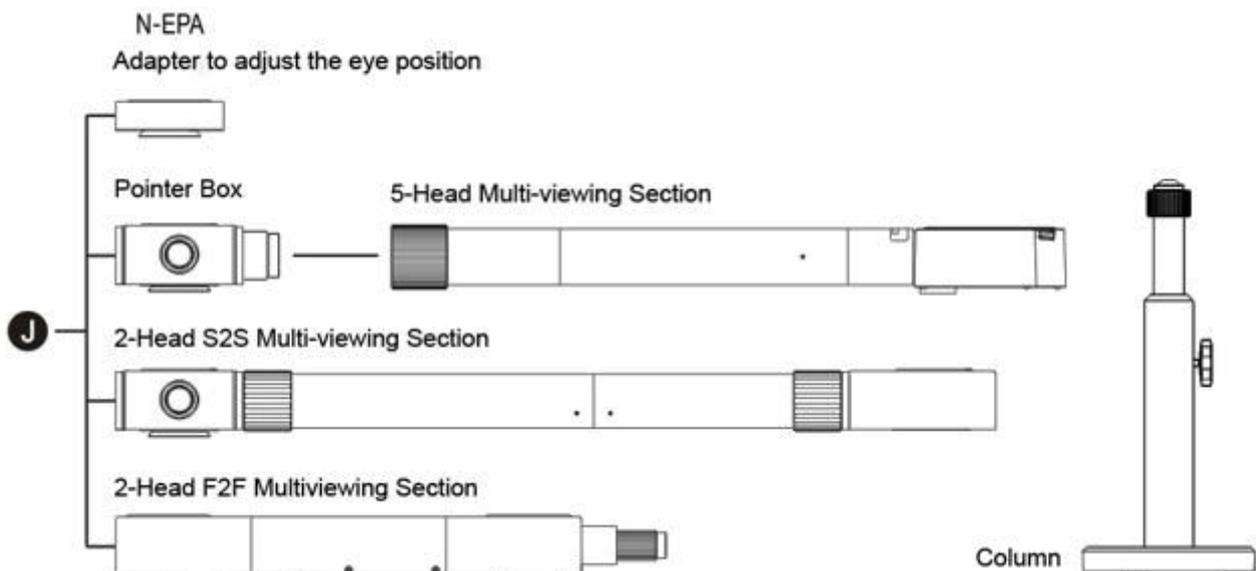
System Diagram & Size(mm)

A12.1095 Size(mm)





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