



Research Scientific Full Auto Motorized Opto-Edu Binocular Biological Microscope A12.1095

Our Product Introduction

for more products please visit us on cnoec.com

Basic Information

- Place of Origin: China
- Brand Name: CNOEC, OPTO-EDU
- Certification: CE, Rohs
- Model Number: A12.1095
- Minimum Order Quantity: 1 pc
- Price: FOB \$1~1000, Depend on Order Quantity
- Packaging Details: Carton Packing, For Export Transportation
- Delivery Time: 5~20 Days
- Payment Terms: T/T, West Union, Paypal
- Supply Ability: 5000 pcs/ Month

OPTO-EDU



Product Specification

- Main Body: Full Auto Body + LED Illumination.
- Head: Seidentopf Trinocular Head, Inclined 30°
- Eyepiece: SW10x/25mm, High Eyepoint, Diopter Adjustable, Dia.30mm
- Nosepiece: Auto Coded Nosepiece, Sextuple, Backward
- Objective: NIS60 N-PLN Infinity Plan Objective
- Working Stage: Low Position Control Knob, Height Adjustable Up/Down 18mm
- Condenser: Universal Condenser NA0.9
- Focusing: Coaxial Coarse & Fine Focusing, Fine Division 0.001mm
- Highlight: **binocular biological microscope opto edu, research opto edu microscope, SW10x binocular biological microscope**



Motorized Control Software And Microscopic Imaging System

More Images



Product Description

A12.1095 is newly designed Full Auto Motorized Research Level Scientific Laboratory Microscope, equipped with electric platform, auto focus, electric objective conversion, touch screen controller and powerful imaging software; Through the precise connection between the parts, the functions of microscope observation, image acquisition and image processing are realized, and the repetitive operation is reduced. In addition, it can restore the microscope settings and parameter settings of the last operation, and improve the stability and accuracy of microscope imaging. Microscope operation can be so fast and efficient.

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A12.1095

Research Scientific Laboratory Microscope,
Motorized Nosepiece + XYZ Stage





Motorized Control Software And Microscopic Imaging System

Motorized Control Software And Microscopic Imaging System

The motorized microscope 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.



A12.1091
Laboratory Microscope,
Manual



A12.1093
Laboratory Microscope,
Semi-Auto

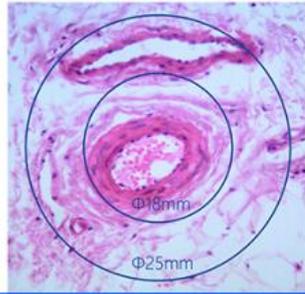
A12.1091, A12.1093, A12.1095 Series Microscope Intelligent revolutionary products, Operating comfort ergonomics design, Fast and efficient imaging for laboratory and clinical operation, Microscope applications has brought a revolutionary breakthrough.

A12.1095
Laboratory Microscope,
Full-Auto



Seidentopf Trinocular Head

Seidentopf Trinocular Head, Inclined 30°, Interpupillary Distance 47-78mm, 3 Level Light Split Switch
E100:P0/E20:P80/E0:P100
Large Field Eyepiece SW10x/25mm, Diopter Adjustable

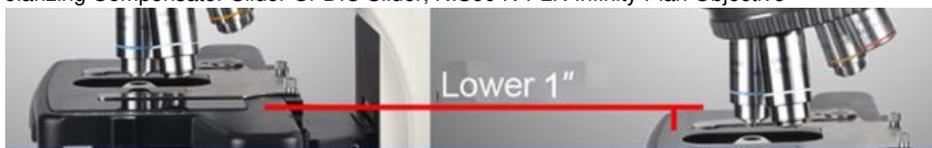


Large Field Eyepiece



Auto Coded Nosepiece

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

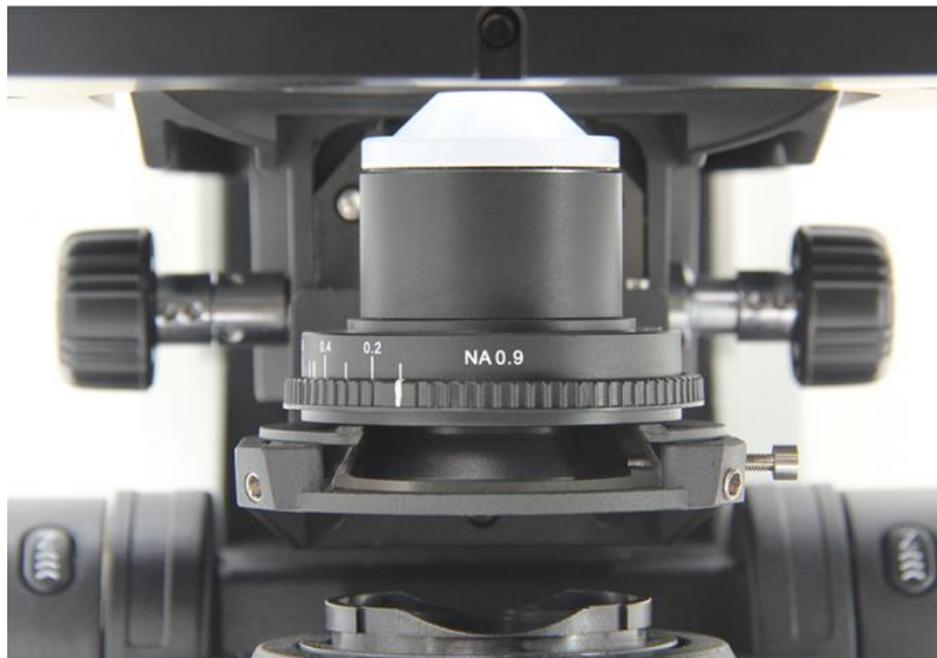


Adapter To Lower Stage Position



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

The micro electric control platform can control the movement in X, Y and Z directions of working stage
Flexible platform control program can meet a variety of sports needs. Matching control rocker, powerful, easy to operate



Universal NA0.9 Condenser



Speed Control & Objective Convert Button

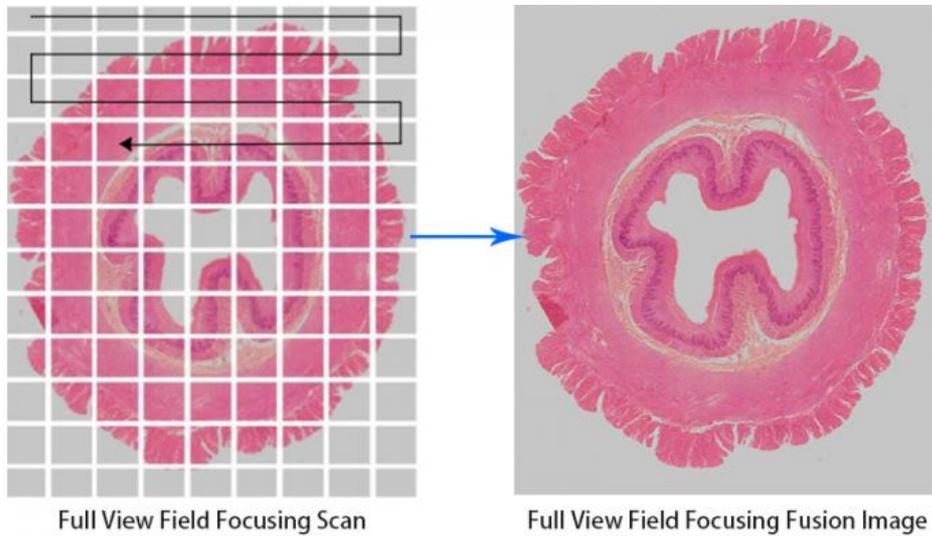
The hand wheel buttons on both sides work independently, and different focusing speeds can be set respectively. Quickly switch objectives during binocular observation.



ESC: Relative coordinate zero point
LIMIT: Temporary upper limit

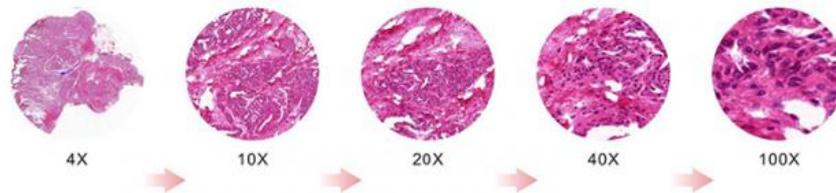
Touch Screen

Which can be used for focusing, adjusting light intensity, setting limit and converting objective lens.
[Full View Field Focusing Scan](#)



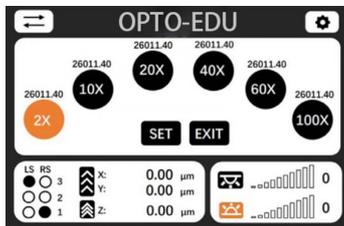
Auto Light Intensity Management

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.

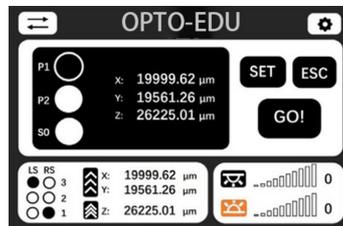


Touch Control Screen, Saving Space, Flexible Control

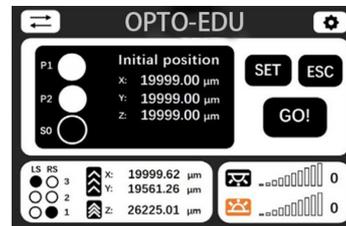
The front touch control screen integrated with the microscope does not occupy the desktop position. The interface is simple and easy to operate, and the programmable control simplifies the repeated observation and imaging process. Powerful functions: three axis coordinate display, speed gear display, 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 axis 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 seted between current position and zero point of coordinate, enable switch slide more convenient and easy

N-PLN Series Plan Objectives



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



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



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-PLM Series Plan PH Objectives

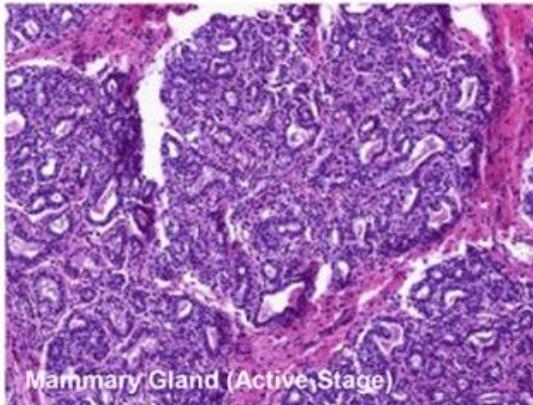


N-PLPN Series APO Plan Objectives

The newly-launched advanced **Achromatic** 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.

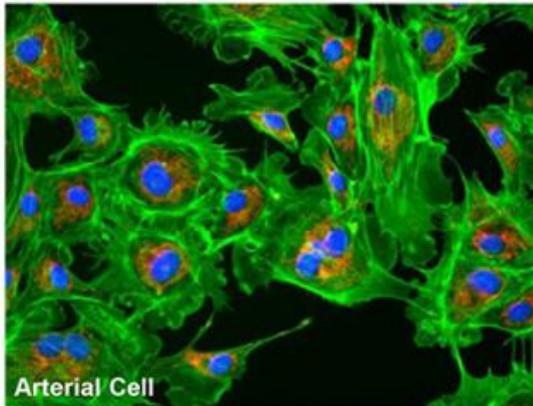
Bright-field Viewing

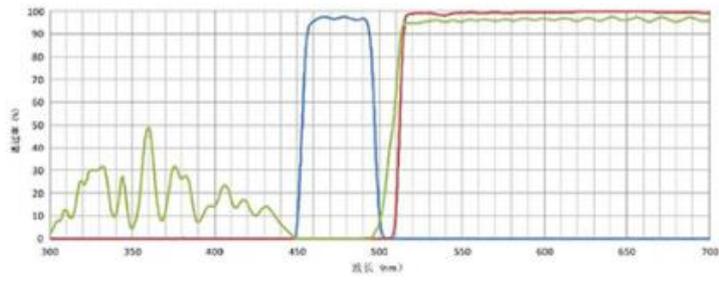
Brighter image, high resolution and flatness, suitable for all the magnifications



Fluorescent Viewing

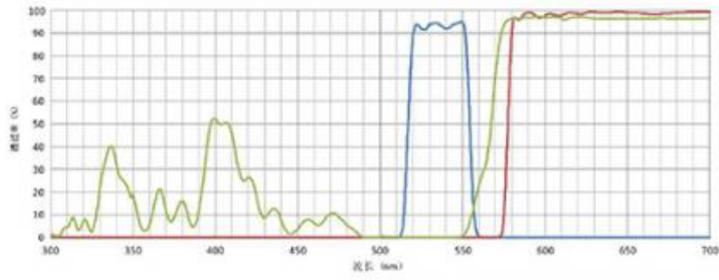
The compact epi-fluorescent components includes noise elimination feature which ensures images captured are bright, with high contrast and high signal-to-noise ratio





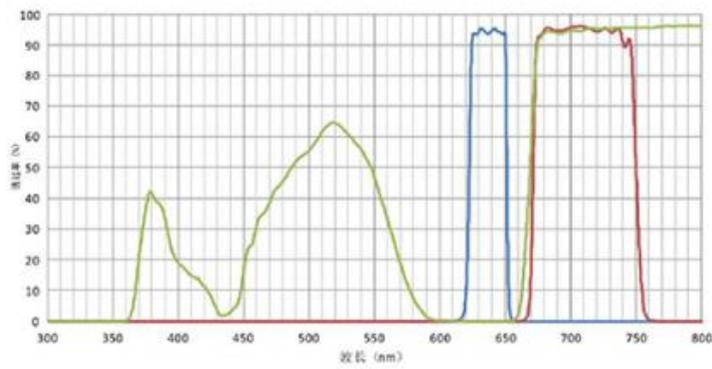
FL-B

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



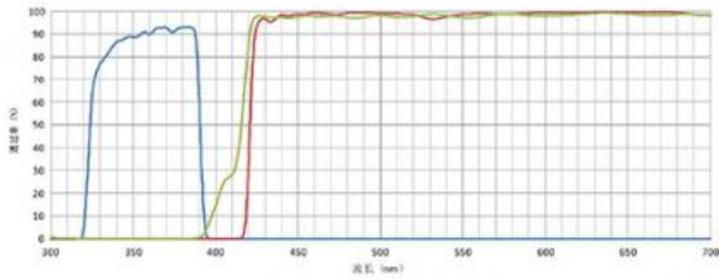
FL-G

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



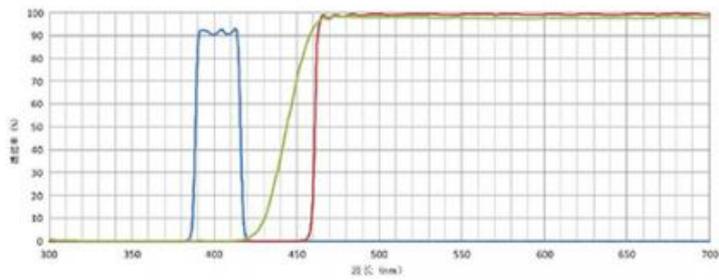
FL-R

- BP620-650
- DM660
- BA670-750



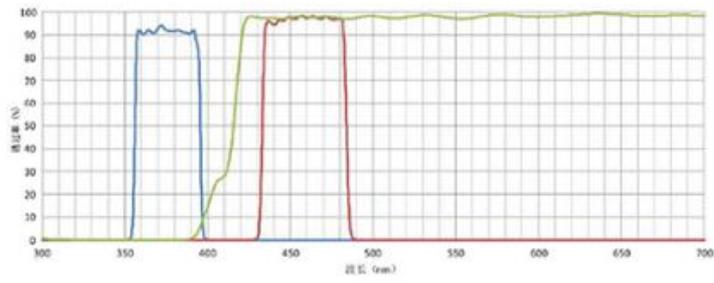
FL-U

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



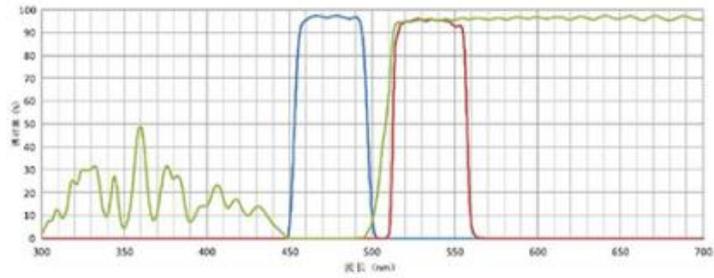
FL-V

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



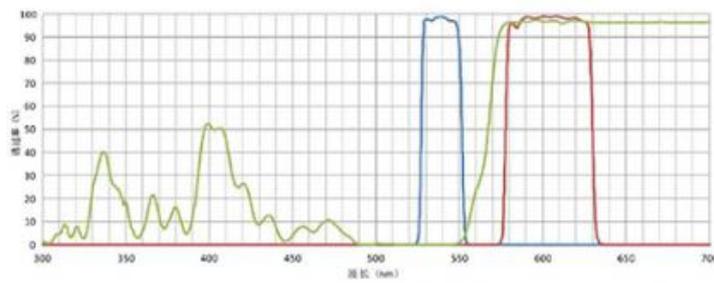
FL-DAPI

- BP360-390
- DM415
- BA435-485



FL-FITC

- BP460-495
- DM505
- BA510-550

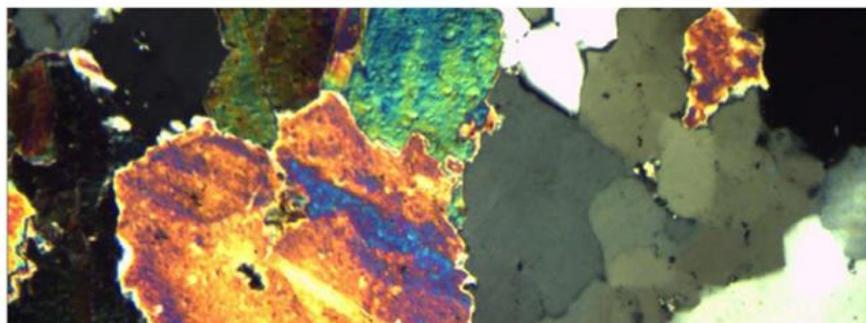
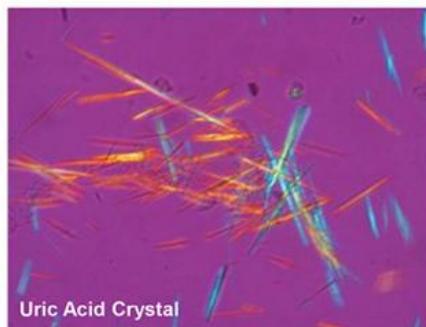


FL-TRITC

- BP528-553
- DM565
- BA578-633

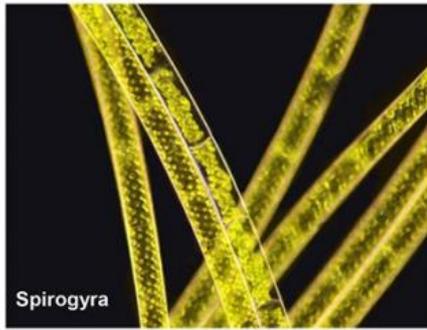
Polarizing Viewing

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



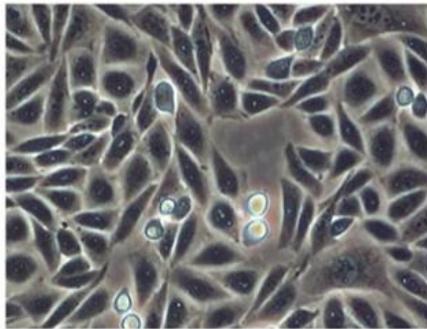
Dark-field Viewing

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



A59.2225



A59.2226

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

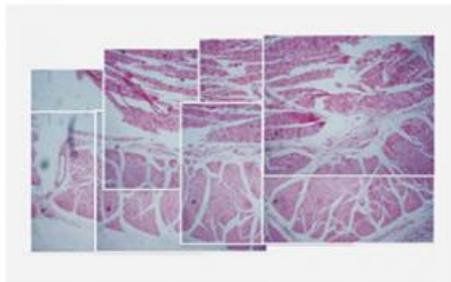
◆ Real Time / Static Measure

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.



◆ 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



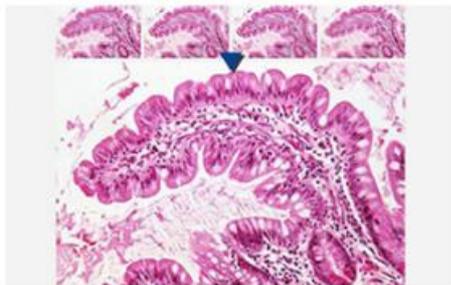
◆ Cell Counting

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



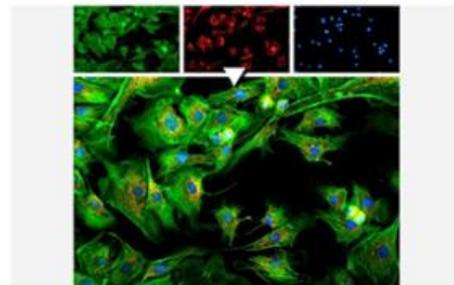
◆ 3D Depth Of Field Fusion

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



◆ 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

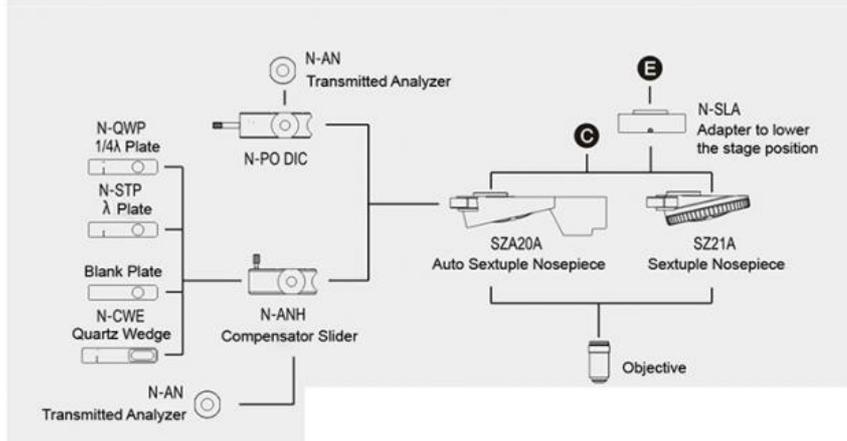
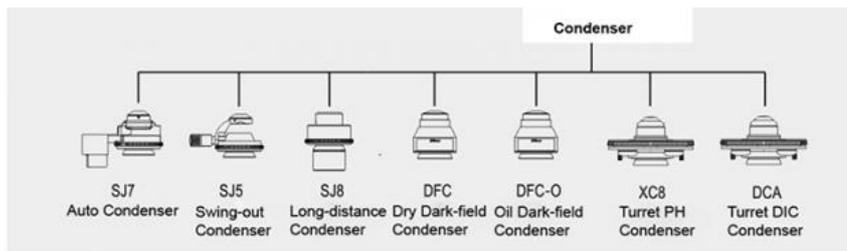
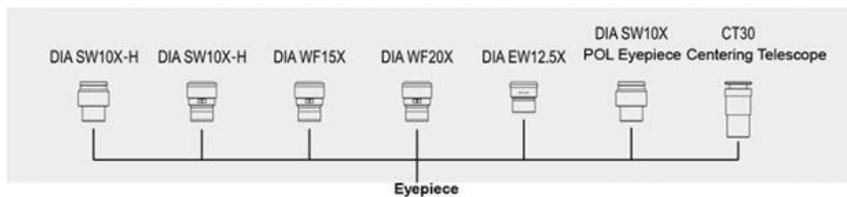
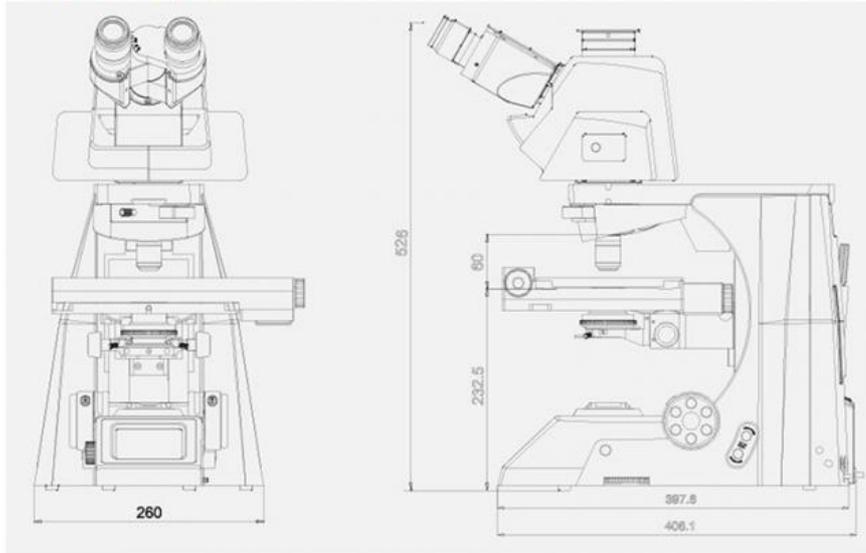


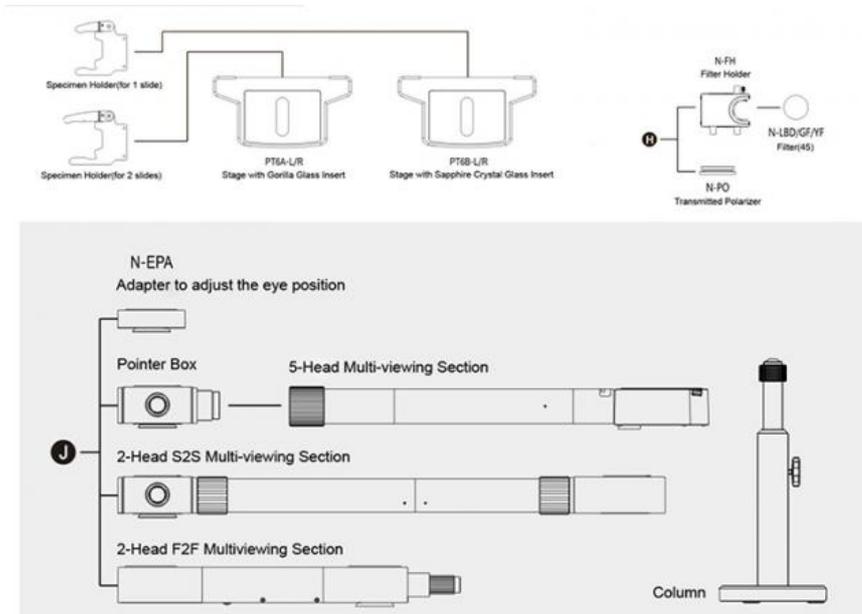
Full Auto Motorized Research Level Scientific Laboratory Microscope		A12.1091	A12.1093	A12.1095	Cata.No.
Optical System	NIS60 Infinity Optical System	●	●	●	
Observation Method	Bright Field	●	●	●	
	Dark Field	○	○	○	
	Polarizing	○	○	○	
	Phase Contrast	○	○	○	
	Flourescent	○	○	○	
Main Body	DIC	○	○	○	
	A12.1091-H Manual Body + Halogen Illumination.	●			A54.1090-BH
	A12.1091-L Manual Body + LED Illumination.	●			A54.1090-BL
	A12.1093-H Semi-Auto Body + Halogen Illumination. Auto Nosepiece + Auto Condenser + Auto Brightness Adjust		●		A54.1090-ATH
	A12.1093-L Semi-Auto Body + LED Illumination. Auto Nosepiece + Auto Condenser + Auto Brightness Adjust		●		A54.1090-ATL

	A12.1095 Full Auto Body + LED Illumination. Auto Nosepiece + Auto Brightness + Auto X/Y/Z Stage+ Touch LCD Screen			●	
Head	Seidentopf Binocular Head, Inclined 30°, Interpupillary Distance 47-78mm	○	○	○	A53.1090-B
	Seidentopf Trinocular Head, Inclined 30°, Interpupillary Distance 47-78mm, 3 Level Light Split Switch E100:P0/E20:P80/E0:P100	●	○	●	A53.1090-T
	Ergo Tilting Trinocular Head, Inclination 0°~35°, Interpupillary Distance 47-78mm, 3 Level Light 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
Nosepiece	Manual Nosepiece, Quintuple, Backward, Center Adjustable	○	○	○	A54.1091-5M
	Manual Nosepiece, Sextuple, Backward	●			A54.1091-6M
	Coded Nosepiece, Sextuple, Backward, For Auto Brightness Adjust	○			A54.1091-6C
	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 Objectives, Press Green Button Can Swap Between Them	○	●	●	A54.1091-6A
	With Slot For Polarizing Compensator Slider Or DIC Slider	●	●	●	
	Protect Cover For Nosepiece Holes	●	●	●	A54.1091-C
NIS60 N-PLN Infinity Plan Objective	2x/0.06, W.D.7.5mm, Cover Glass 0.17mm	○	○	○	A52.1090-2
	4x/0.10, W.D.30mm, Cover Glass 0.17mm	●	●	●	A52.1090-4
	10x/0.25, W.D.10.2mm, Cover Glass 0.17mm	●	●	●	A52.1090-10
	20x/0.40, W.D.12mm, Cover Glass 0.17mm	●	●	●	A52.1090-20
	40x/0.65, W.D.0.7mm, Cover Glass 0.17mm	●	●	●	A52.1090-40
	50x/0.95(Oil), W.D.0.19mm, Cover Glass 0.17mm	○	○	○	A52.1090-50
	60x/0.8, W.D.0.3mm, Cover Glass 0.17mm	○	○	○	A52.1090-60
100x/1.25(Oil), W.D.0.2mm, Cover Glass 0.17mm	●	●	●	A52.1090-100	
NIS60 APO Infinity Plan	20x/0.75, W.D.1.1mm, Cover Glass 0.17mm	○	○	○	A52.1091-20
	100x/1.45(Oil), W.D.0.13mm, Cover Glass 0.17mm	○	○	○	A52.1091-100
Working Stage	Double Layer Mechanical Stage Full Size 302x152mm, Stage Table Size 190x152mm, Moving Range 78x32mm, Double Slide Holder, With Gorilla Glass Insert, Left Handle	○		○	A54.1092-GL
	Double Layer Mechanical Stage Full Size 302x152mm, Stage Table Size 190x152mm, Moving Range 78x32mm, Double Slide Holder, With Gorilla Glass Insert, Right Handle	●		○	A54.1092-GR
	Double Layer Mechanical Stage Full Size 302x152mm, Stage Table Size 190x152mm, Moving Range 78x32mm, Double Slide Holder, With Sapphire Glass Insert, Left Handle			○	A54.1092-SL
	Double Layer Mechanical Stage Full Size 302x152mm, Stage Table Size 190x152mm, Moving Range 78x32mm, Double Slide Holder, With Sapphire Glass Insert, Right Handle		●	○	A54.1092-SR
	Low Position Control Knob, Height Adjustable Up/Down 18mm, Convex Point Guide Mechanism For Easily Put Slide By One Hand, With Tension Adjustable Ring, With Safety Stop Screw	●	●	-	
	Full-Auto X/Y/Z Motorized Control Working Stage, Including Control Joy Stick, --Travel Range X:125mm, Y:75mmmm, --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	Universal NA0.9 Condenser			●	A56.1091-M
	Swing-Out Condenser NA0.9/0.25	●			A56.1091-S
	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/Right	●	●	●	

Light Source	Transmit Kohler Illumination, Brightness Adjustable, 12V100W Halogen, External Lamp House For A12.1091-H, A12.1093-H	●	●		A56.1090-12V100W
	Transmit Kohler Illumination, Brightness Adjustable, 3W S-LED, Built-in Main Body For A12.1091-L, A12.1093-L			●	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 (To Upgrade A12.1091 to Auto Brightness Adjust, Must Upgrade Its Nosepiece To A54.1091-6C Coded Nosepiece At Same Time)	○	●	●	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 Processing 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
Polarizing	Polarizer For Transmit Light Source, Swing-Out, On Collector	○	○	○	A5P.1091-BP
	Analyzer For Transmit Light, Slide With Quartz Wedge Compensator	○	○	○	A5P.1091-BA
	Upgrade To A15.1091 Professional Polarizing Microscope	○	○	○	A15.1091
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.1095-100
	DIC Slide With Analyzer 10x-20x	○	○	○	A5C.1095-1020P
DIC Slide With Analyzer 40x-100x	○	○	○	A5C.1095-40100P	
NIS60 N-PLFN Semi-APO Fluorescent Objective For DIC	4x/0.13, W.D.16.5, Cover Glass 0.17mm	○	○	○	A5F.1091-4
	10x/0.3, W.D.8.1, Cover Glass 0.17mm	○	○	○	A5F.1091-10
	20x/0.5, W.D.2.1, Cover Glass 0.17mm	○	○	○	A5F.1091-20
	40x/0.75, W.D.0.7, Cover Glass 0.17mm	○	○	○	A5F.1091-40
	100x/1.3, W.D.0.15, Cover Glass 0.17mm, Oil	○	○	○	A5F.1091-100
Fluorescent	Upgrade To A16.1093, A16.1095 Fluorescent Microscope	-	○	○	A16.1093, A16.1095
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					

A12.1095 Size(mm)

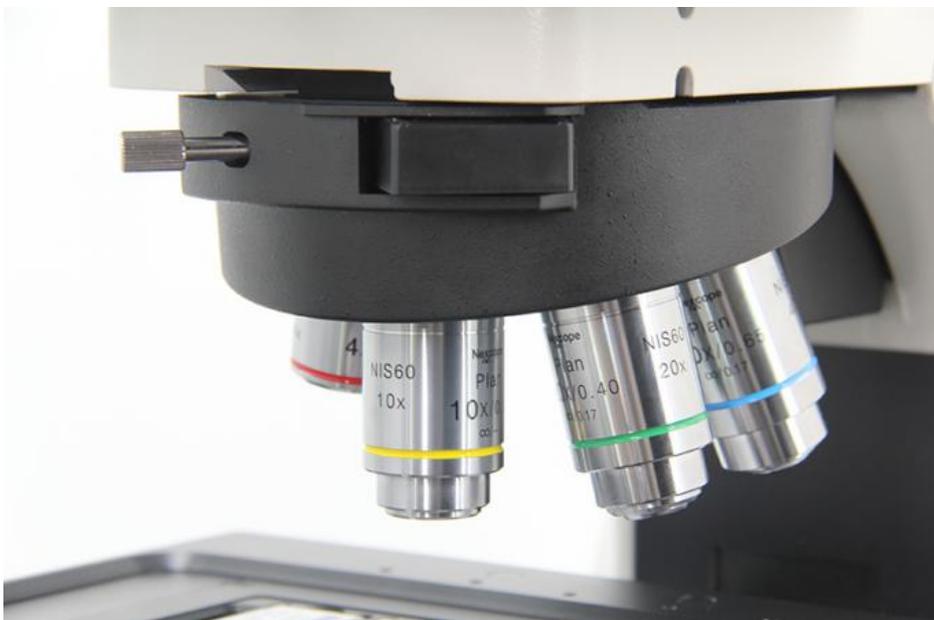
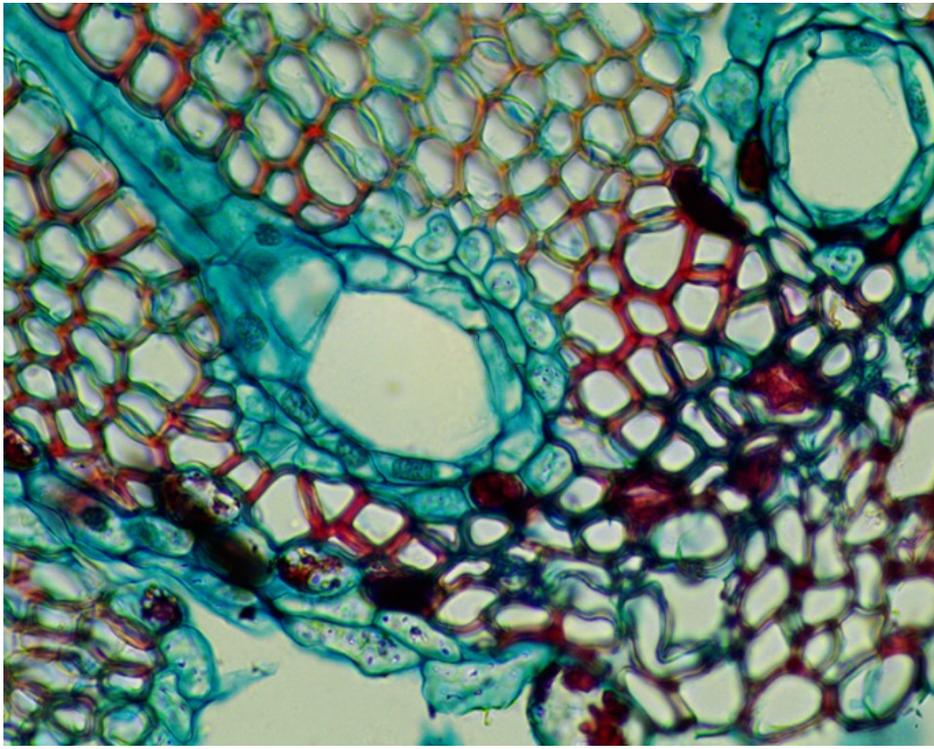




More Pictures

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