



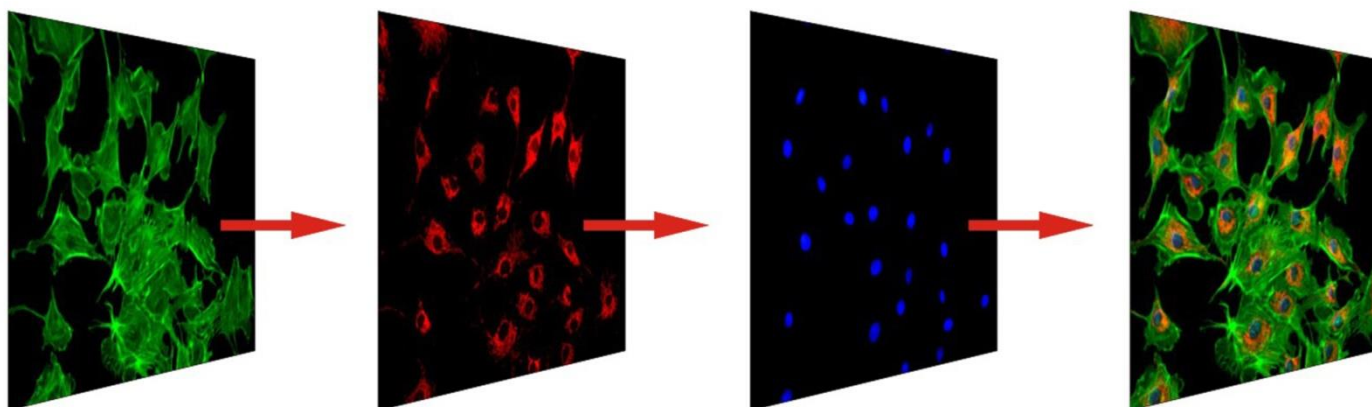
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Tel:+8610 88696020 Fax:+8610 88696085



A16.1093

Upright Fluorescent Microscope, Semi-Auto



A12.1091, A12.1093, A16.1093 Series Microscope



A12.1091

**Laboratory Microscope,
Manual**



A12.1093

**Laboratory Microscope,
Semi-Auto**

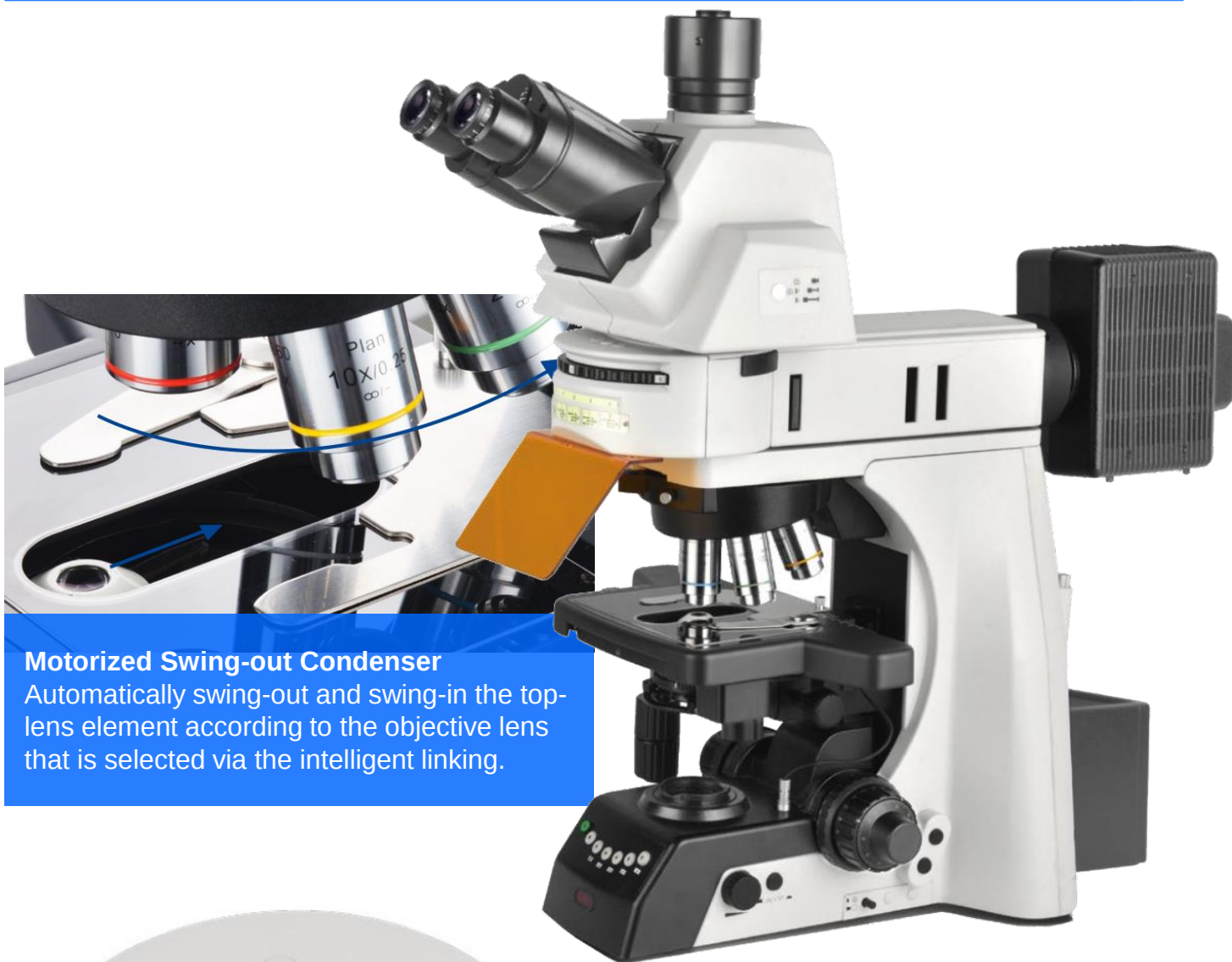
A12.1091, A12.1093, A16.1093 Series Microscope
Intelligent revolutionary products, Operating comfort
ergonomics design, Fast and efficient imaging for
laboratory and clinical operation, Microscope
applications has brought a revolutionary
breakthrough.



A16.1093

**Fluorescence Microscope,
Semi-Auto**

A16.1093 Upright Fluorescent Microscope, Semi-Auto



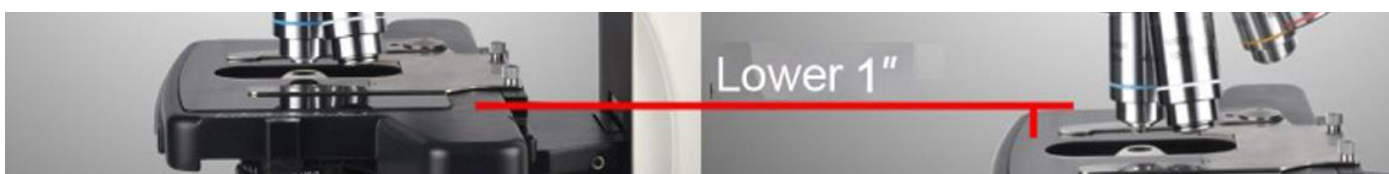
Motorized Swing-out Condenser

Automatically swing-out and swing-in the top lens element according to the objective lens that is selected via the intelligent linking.



Excellent Fluorescent Viewing

All the fluorescent filter blocks use the high-performanced filter lens. The reflected light source body can assemble 6 filter blocks, that allows operators to view different stained specimens at the same time.



Adapter To Lower Stage Position

To lower the stage by 1", by adding a block up the nosepiece, so that operators can change the slides position easily and comfortably



Ergo Tilting Trinocular Head

Eye tube can be adjustable from 0° to 35° . Trinocular tube can be connected to SLR camera and digital camera, having a 3-position beam splitter (0:100, 100:0, 80:20), the splitter bar can be assembled on the either side according to user's requirement.



Put Slides By One Hand

It is easy for operators to put slides by one hand due to the convex point guide mechanism.



Sapphire Glass Stage Insert

Mechanical stage with a gorilla glass insert is endurable and allows operators to easily clear the stage. We have sapphire glass for your optional choice.

Low-position Control Knobs

The height of the stage control knobs can be adjusted up or down by 18mm to ensure a comfortable hand position, and with adjustable tension control





Focusing System

Coaxial focusing system with low-position X-Y coaxial control knobs. The ergonomic design provides operators comfortable experience.

Nosepiece Rotating Buttons

This microscope has the function of automatically rotating nosepieces and adjusting the light intensity.

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.



Image Capture Button

The digital camera could capture images just by pressing the black 'capture' button at the side of the bottom of the microscope body.

Remote Control Pad

Objectives could be switched by simply pressing the rotating buttons. Users could also self-define two of the most commonly used objectives. User could swap between these two objectives by pressing the green button.





Left/Right Focusing Wheel Interchangeable

In order to better adapt to users with different operating habits, the focus and stage can be easily adjusted to the left or right hand position for operation



Auto Light Intensity Management

No need to adjust the light intensity by hand when switch the objectives. The long-life LED lamp can keep the light intensity and easy for maintenance.

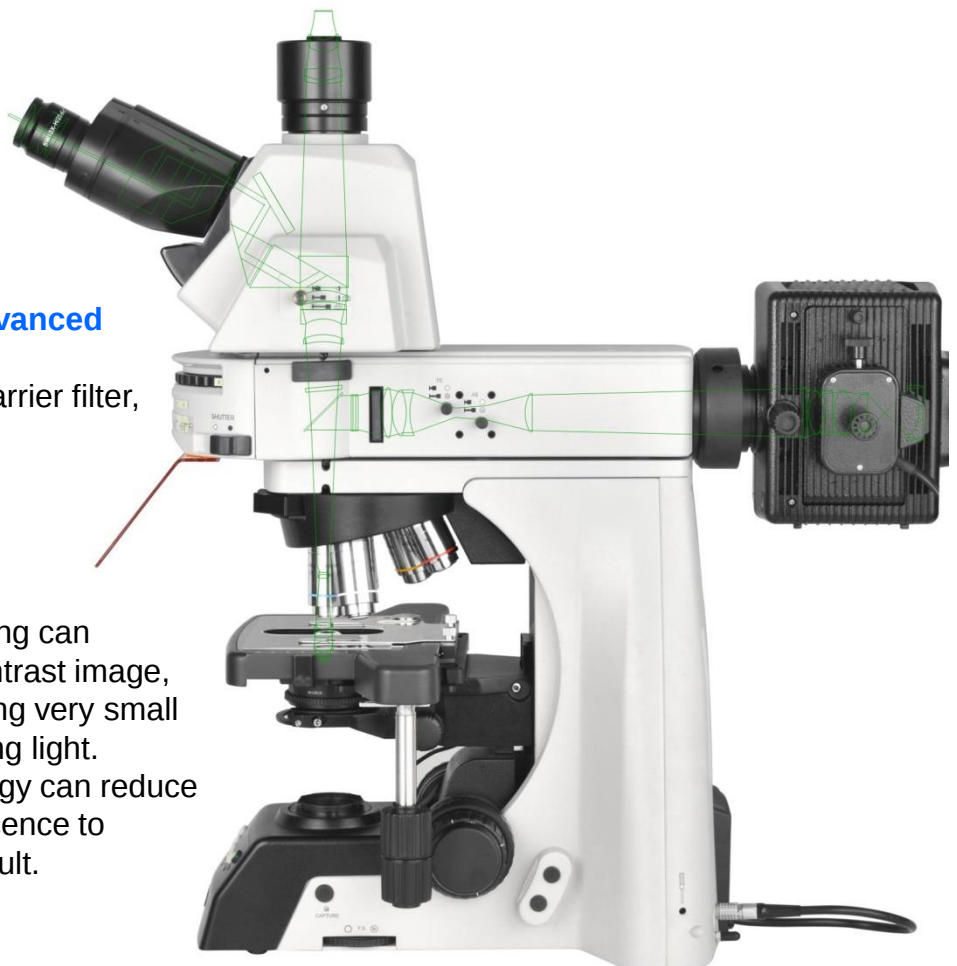


Fluorescent Filter Blocks Advanced Coating Technology

Higher transmissivity, Acuter barrier filter, Higher testing results

High-Accuracy Image

High-sensitive fluorescent testing can capture the bright and high-contrast image, even in the condition of exposing very small part of the cell under the exciting light. Advanced fluorescent technology can reduce diffusion light and auto fluorescence to ensure high signal-to-noise result.



◆ Fluorescent Viewing

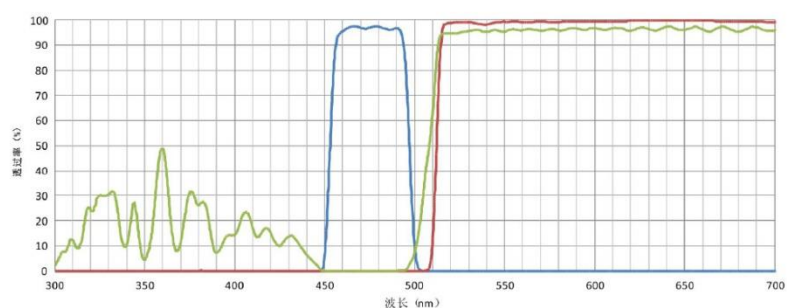
The compact epi-fluorescent components includes noise elimination feature which ensures images captured are bright, with high contrast and high signal-to-noise ratio.



LED Epi-Fluorescent Illuminator

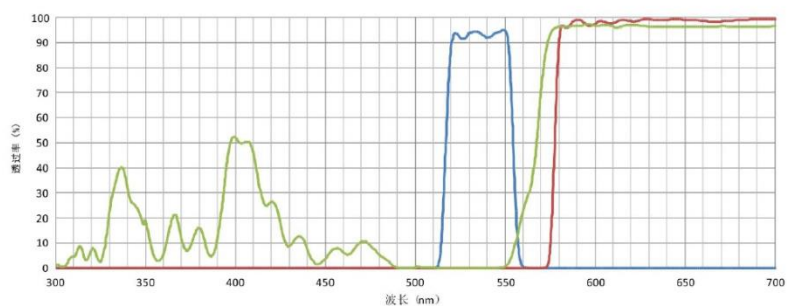


Mercury Epi-Fluorescent Illuminator



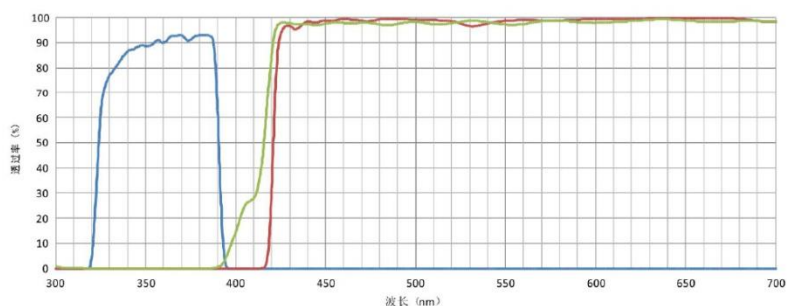
FL-B

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



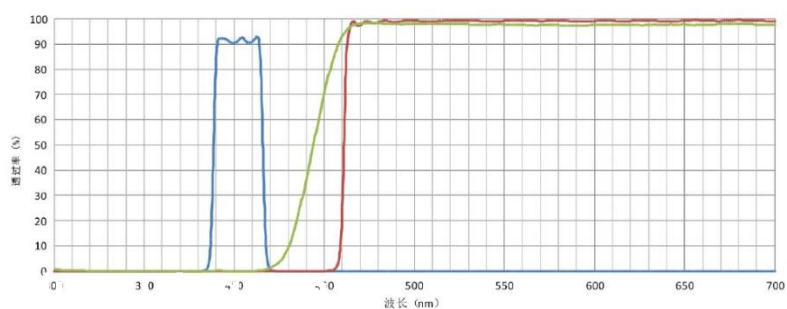
FL-G

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



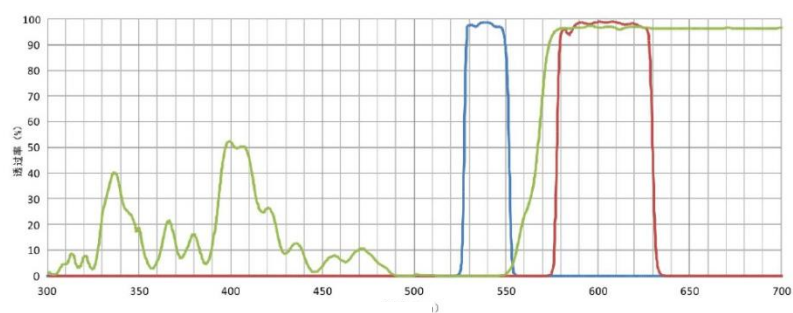
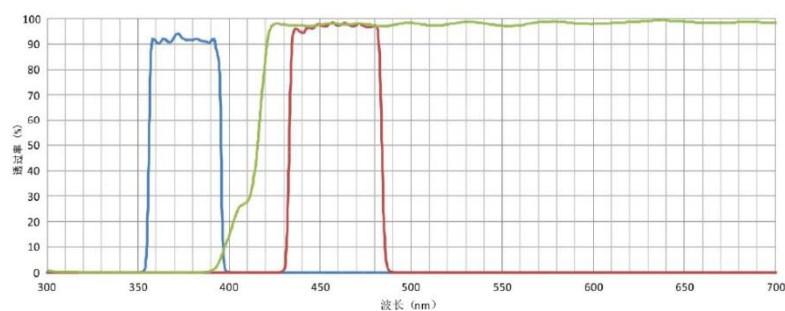
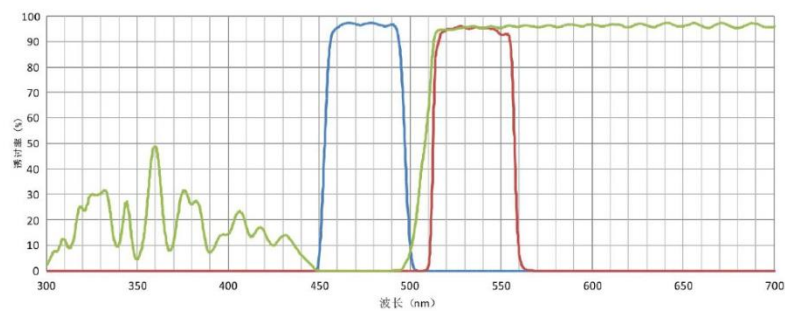
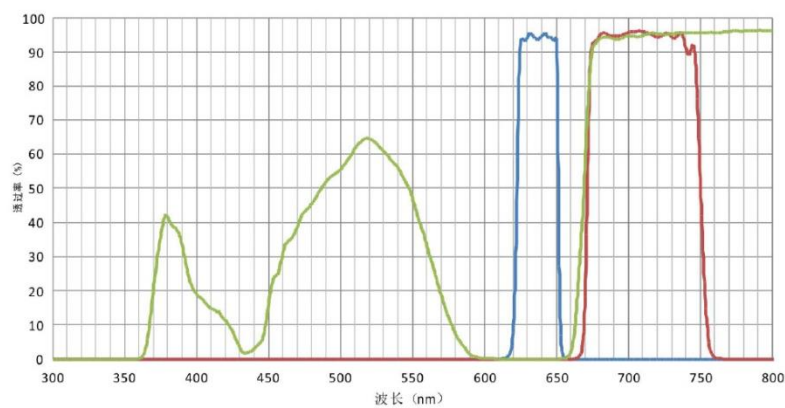
FL-U

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



FL-V

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



A16.1093-H



A16.1093-L

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.

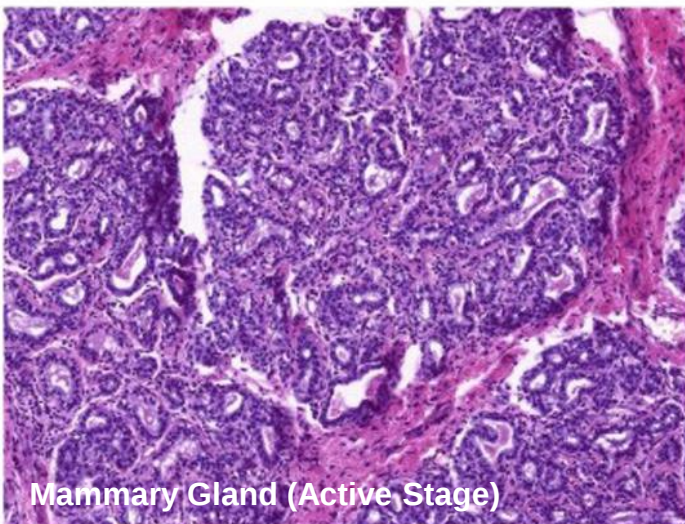
N-PLPN Series APO Plan Objectives

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.

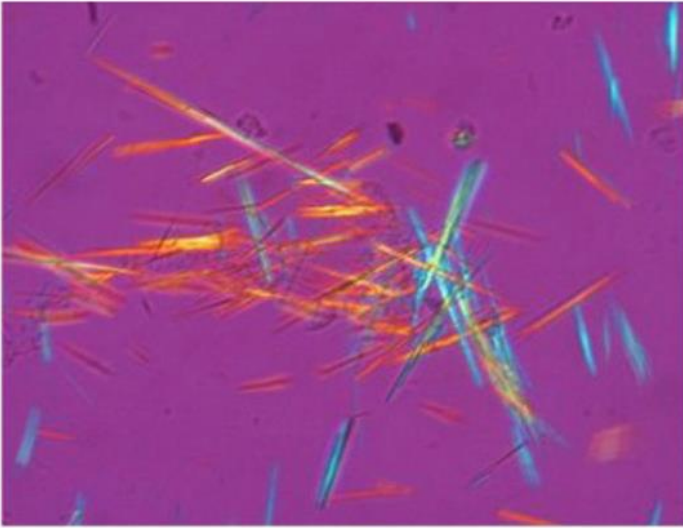


◆ Bright-field Viewing

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

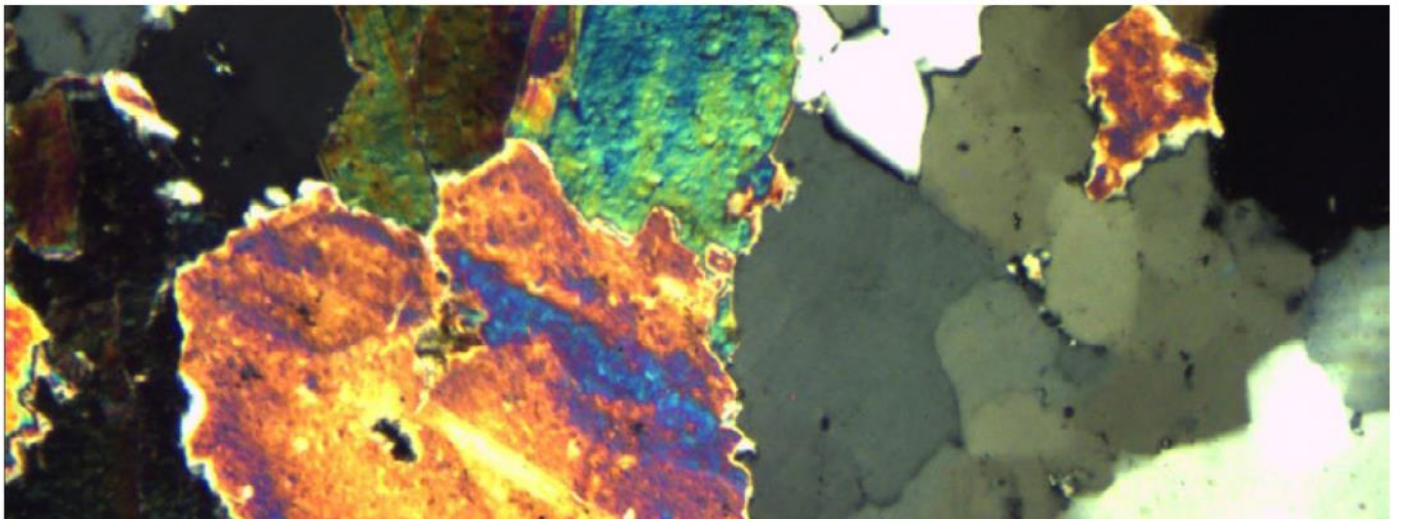


Uric Acid Crystal

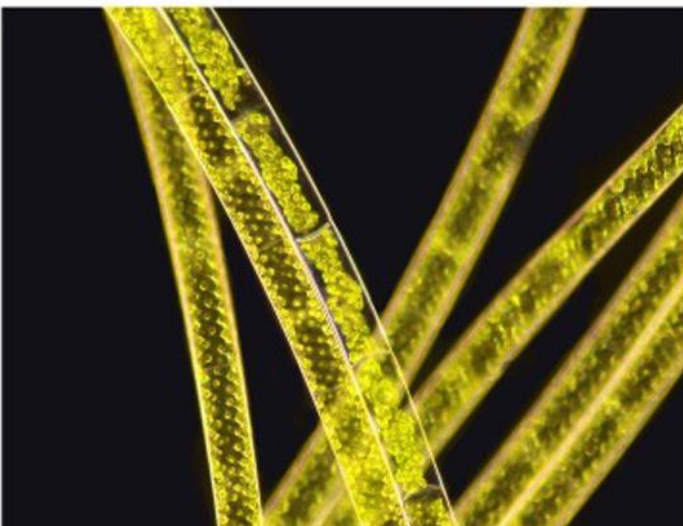


◆ Polarizing Viewing

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



Spirogyra

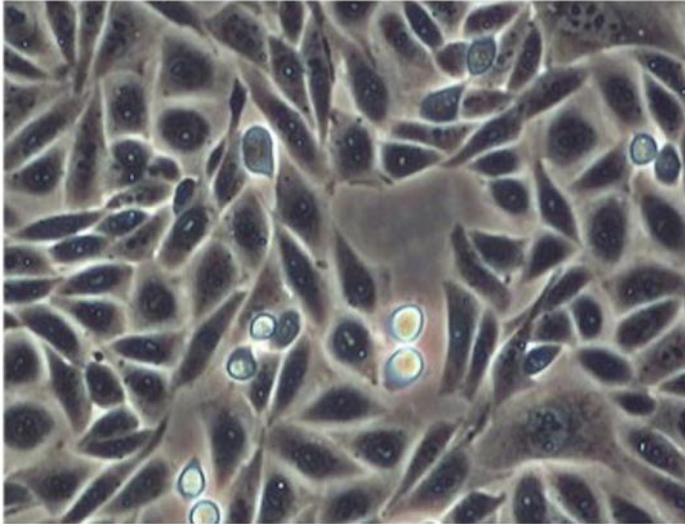


◆ Dark-field Viewing

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

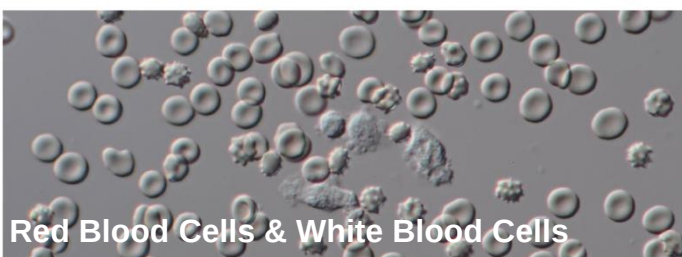
◆ Phase Contrast Viewing

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



Red Blood Cells & White Blood Cells

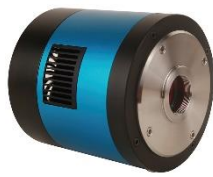


Saccharomyces Cerevisiae

Software Function



A59.2225

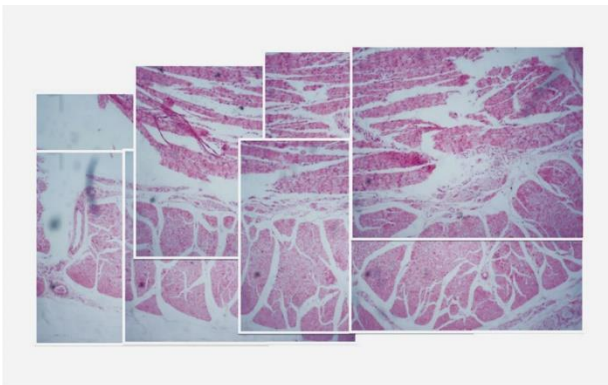


A59.2226

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

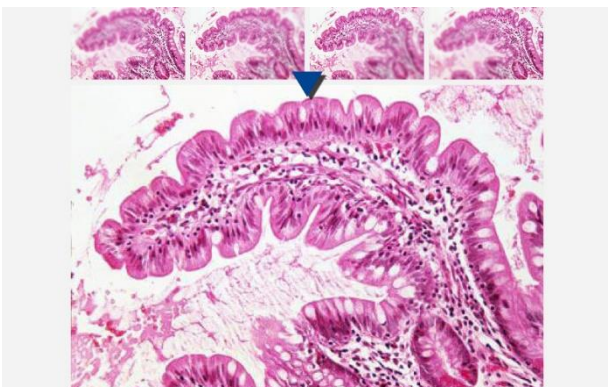
◆ 2D Image Scan & Stitching

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



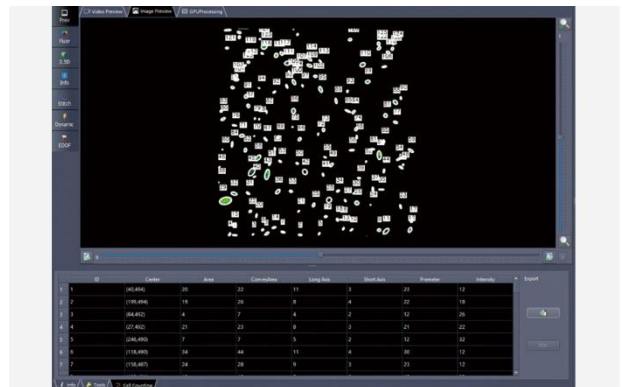
◆ Real Time / Static Measure

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.



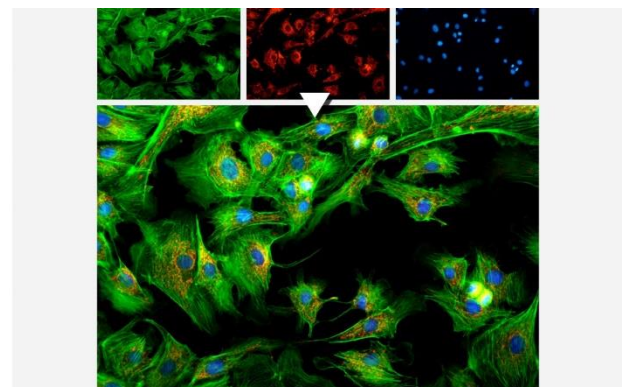
◆ Cell Counting

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

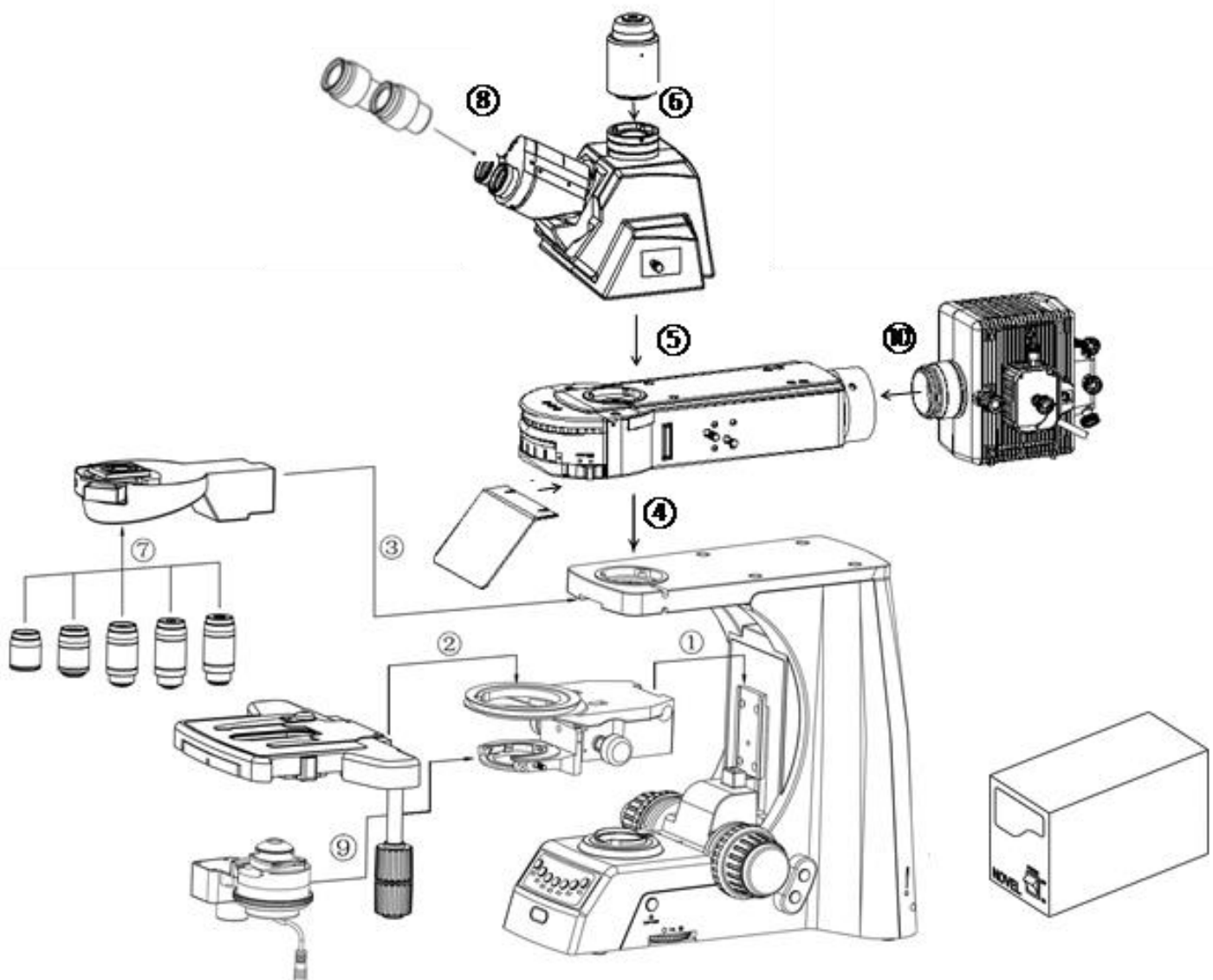
A16.1093 Research Level Fluorescent Laboratory Microscope		A16.1093		Cata. No.
		-H	-L	
Optical System	NIS60 Infinity Optical System	●	●	
Observation Method	Bright Field	●	●	
	Dark Field	○	○	
	Polarizing	○	○	
	Phase Contrast	○	○	
	Flourescent	●	●	
	S	○	○	
Main Body	ATL Semi-Auto Body + LED Illumination. 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
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 With Slot For Polarizing Compensator Slider Or DIC Slider	●	●	A54.1091-6A
		●	●	
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	PlanF S-APO 40x/0.75, W.D.0.7mm, Cover Glass 0.17mm	●	●	A5F.1091-40
Objective	PlanF S-APO 100x/1.30(Oil), W.D.0.15mm, Cover Glass 0.17mm	●	●	A5F.1091-100
Working Stage	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	●	●	
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/Right	●	●	
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

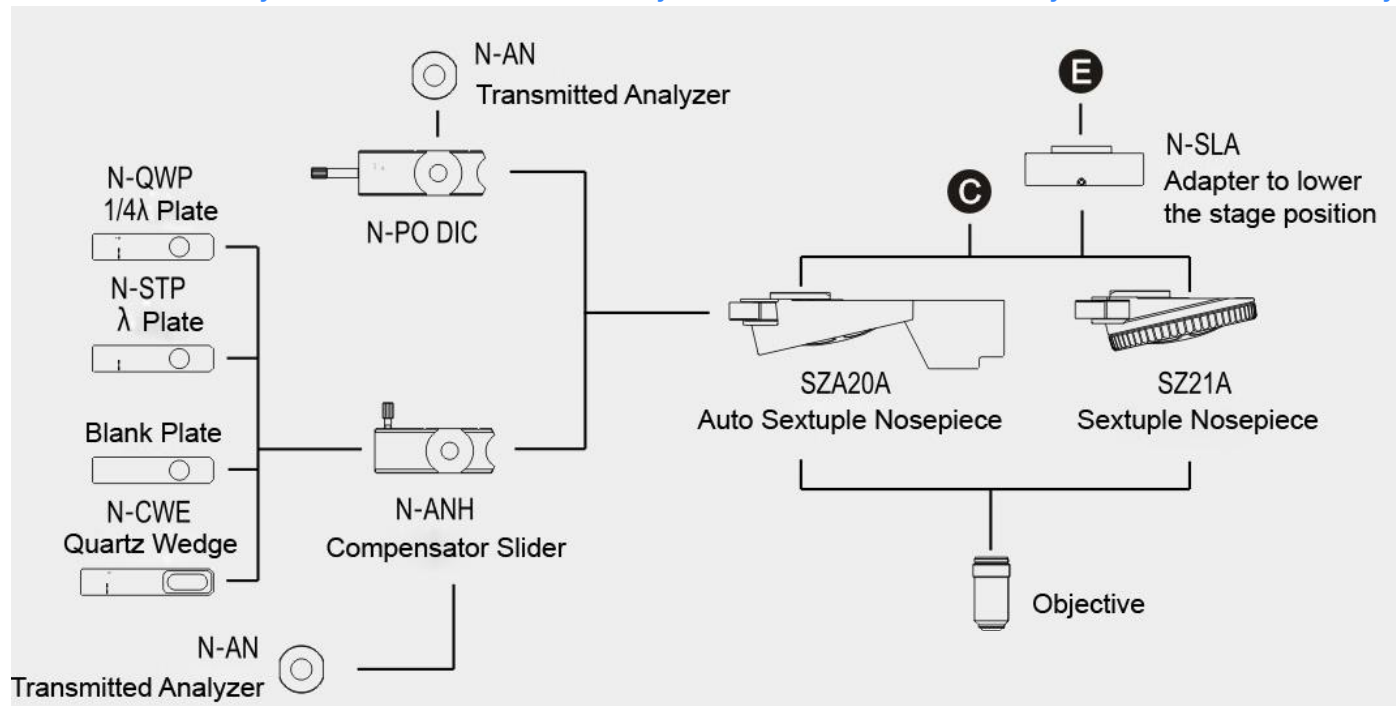
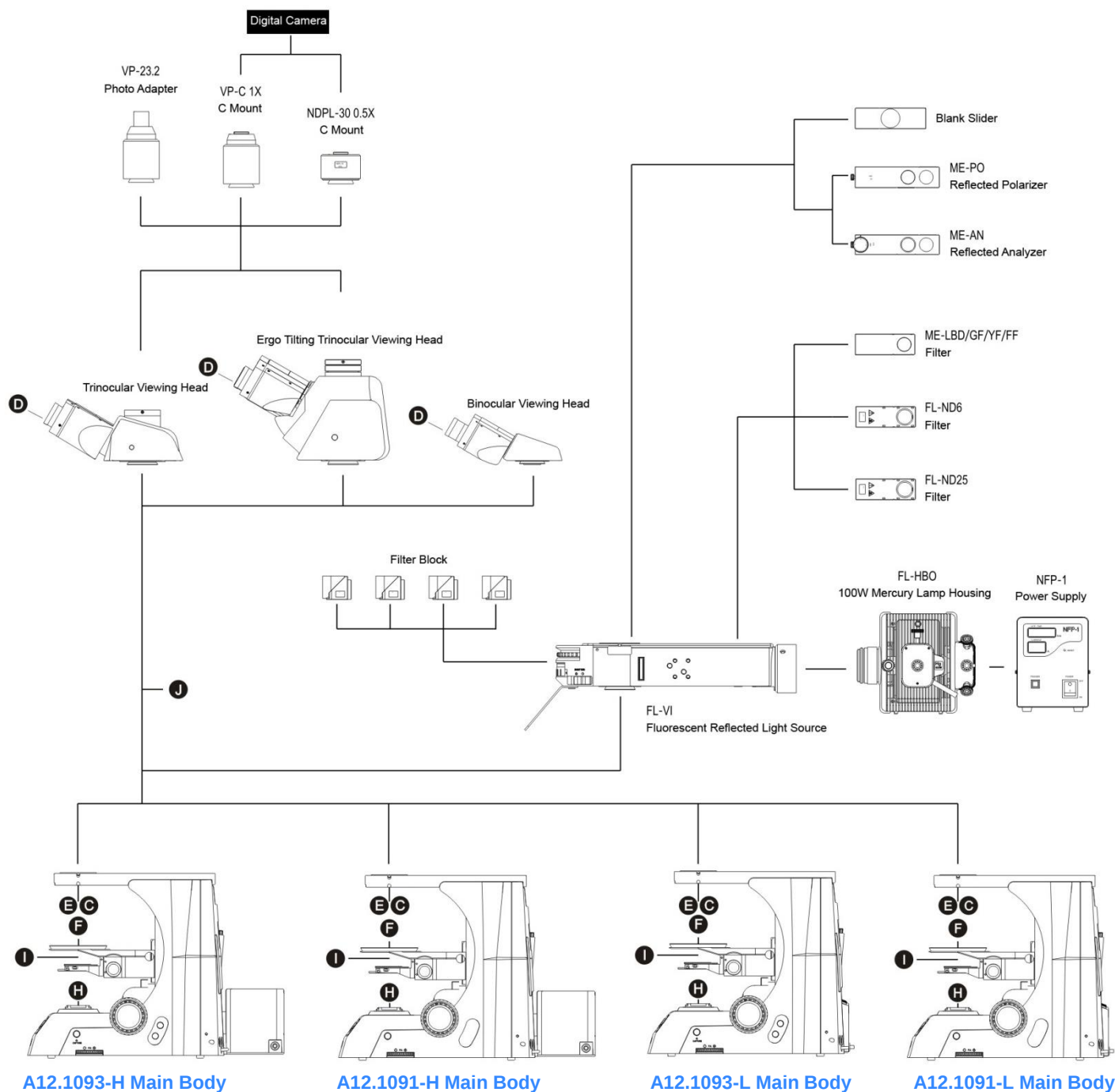
Filter For Transmit Light	Filter Holder On Base, Can Hold 3 Filters	●	●	A56.1092-H
	Filter LBD	●	●	A56.1092-LBD
	Filter Green	●	●	A56.1092-G
	Filter Yellow	●	●	A56.1092-Y
	Filter ND6	●	●	A56.1092-ND6
	Filter ND25	●	●	A56.1092-ND25
Adapter	Eyepiece Adapter Dia.23.2mm	○	○	A55.1090-E
	C-Mount 1.0x	○	○	A55.1090-1.0x
	C-Mount 0.5x	○	○	A55.1090-0.5x
Software	NOMIS Basic Image 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	○	○	A5P.1091-P
	Analyzer Slide For Transmit Light Source	○	○	A5P.1091-A
	Gout Set: Polarizer, λ Slide, Quaterz Wedge Slide	○	○	A5P.1091-T
	Upgrade To <u>A15.1091</u> Professional Polarizing Microscope			<u>A15.1091</u>
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

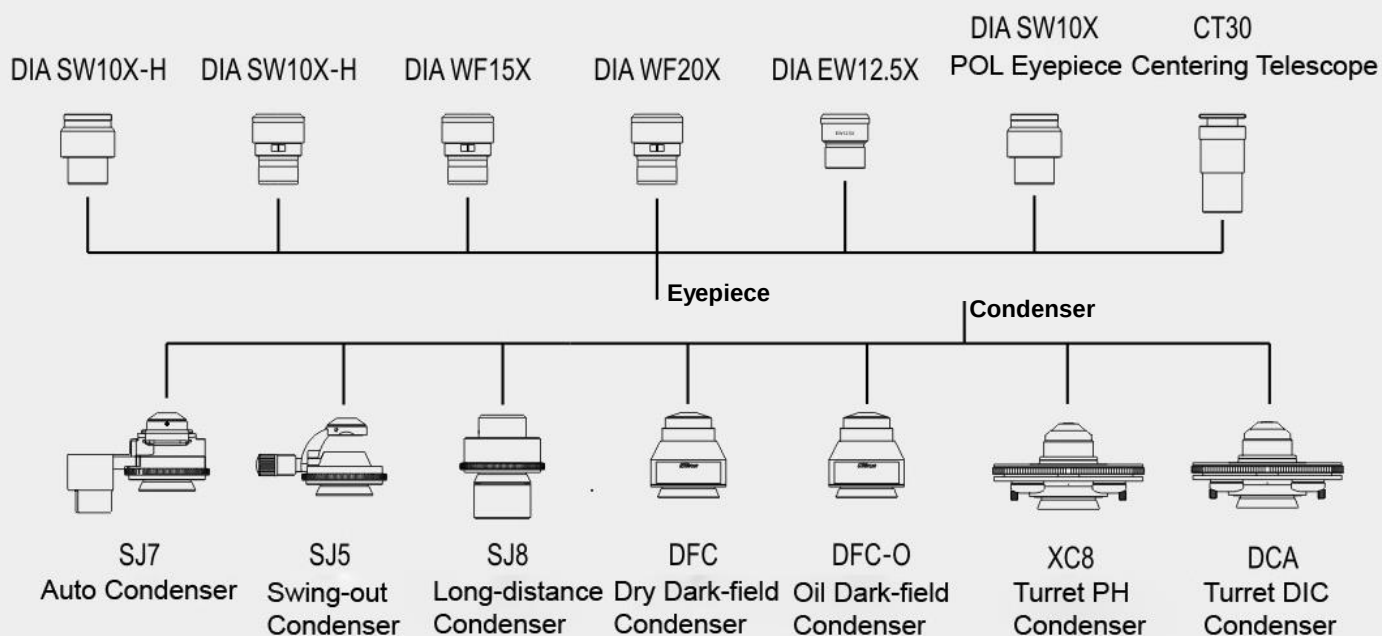
Other Accessories	Working Stage Holder Bracket	●	●	A54.1096
	Adapter To Adjust Eye Position	○	○	A54.1096-A1
	Adapter To Lower The Stage Position 1"	○	○	A54.1096-A2
	Immersion Oil	●	●	A50.1090-01
	Allen Wrench	●	●	A50.1090-02
	Power Cord	●	●	A50.1090-03
	Short Eye Cover, For Eyepiece	○	○	A50.1090-04
	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)



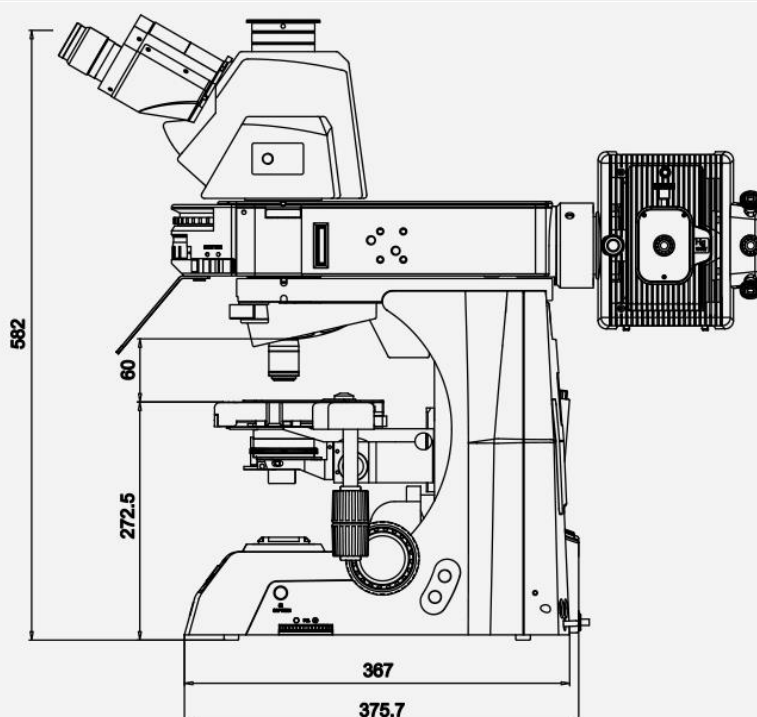
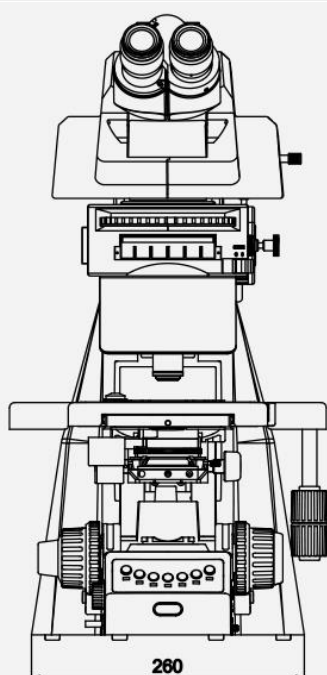
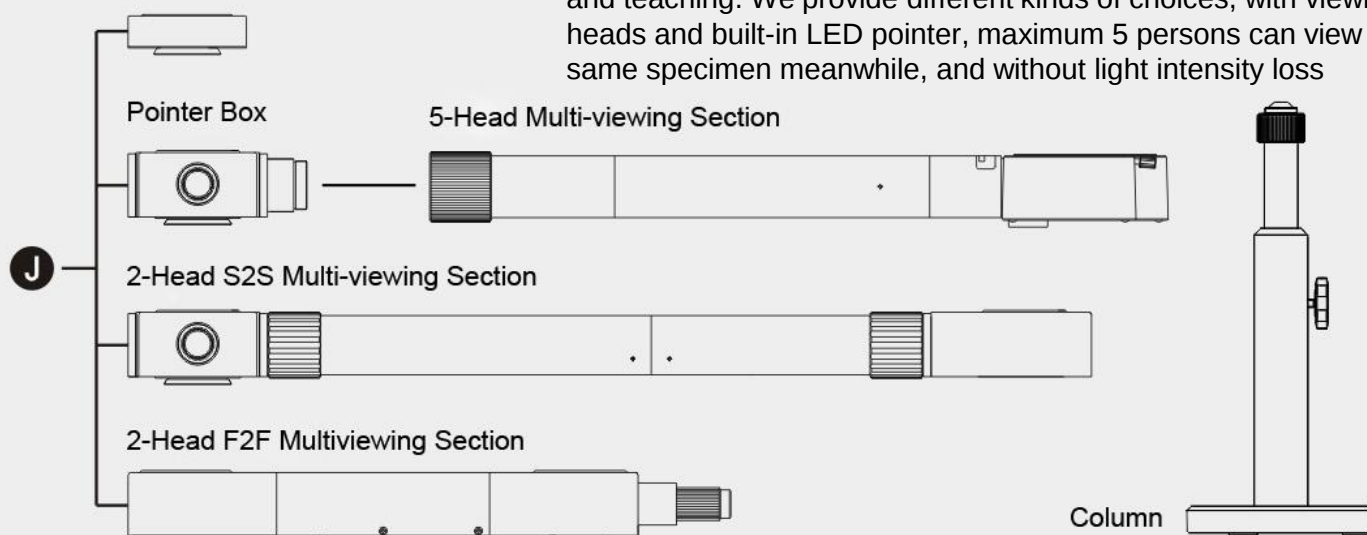




N-EPA

Adapter to adjust the eye position

Multi-viewing System has very high value on laboratory training and teaching. We provide different kinds of choices, with viewing heads and built-in LED pointer, maximum 5 persons can view the same specimen meanwhile, and without light intensity loss



MICROSCOPE IS OUR FOCUS

The Key To Micro World

Opto-Edu is one of the most professional supplier for microscope & educational instruments from China. We have been focusing in this field for more than 25 years, has a professional sales team who can assist our customer to find the BEST SELECTED microscope with competitive price and 3 YEARS Warranty.

25+ Year professional experience we know Microscopes the best!

150+ Microscope & accessory manufacturers supply all models from China

200+ Hot sale microscopes & Newest Models Updated Every Month

750+ Customer from all over the world & keep rising every day

1500+ Microscope products create your one-stop purchase platform

3000+ Educational Instruments For School, College And University Teaching

The Most Professional Microscope Manufacturer in China!



MICRO
WORLD

The Key To OPTO-EDU



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