China

CE, Rohs

A16.1096

Negotiation

5~20 Days

5000 pcs/ Month

1 pc

CNOEC, OPTO-EDU

### A16.1096 Inverted Fluorescent Opto Edu Microscope N-iPLFN PH Infinity Plan Semi-APO

Carton Packing, For Export Transportation

### **Basic Information**

- Place of Origin:
- Brand Name:
- Certification:
- Model Number:
- Minimum Order Quantity:
- Price:
- Packaging Details:
- Delivery Time:
- Payment Terms: T/T, West Union, Paypal
- Supply Ability:



#### **Product Specification**

• Eyepiece: SW10x/22mm, High Eyepoint, Diopter Adjustable, Dia.30mm Nosepiece: Manual Sextuple Nosepiece, With DIC Slot "N-iPLFN PH Infinity Plan Semi-APO Phase Objective: Contrast Objective" • Focusing: Coaxial Coarse & Fine Focusing, Focusing Range 9mm • Working Stage: Three Layer Mechnical Stage, Moving Range 130x85mm • Condenser: Long Working Distance Turret Condenser, N.A.0.55 • Highlight: Fluorescent Opto Edu Microscope, Inverted Opto Edu Microscope, inverted fluorescent microscope opto edu

Our Product Introduction

Research Level Inverted Fluorescent Microscope For BF/PH/FL/DIC Trinocular Head With Built-in Bertrand Lens SW10x/22mm Eyepiece Infintiy Plan Sem-APO Phase Contrast Objective 10x20x40x LWD Condensor N.A.0.55 W.D.26mm, With 6 Holes Phase Contrast Disc Transmit 12V100 Halogen & Reflect 100W Mercury Fluorescent Light With 3 of B,G,UV,V Filters

### OPTO-EDU (BEIJING) CO., LTD.\_

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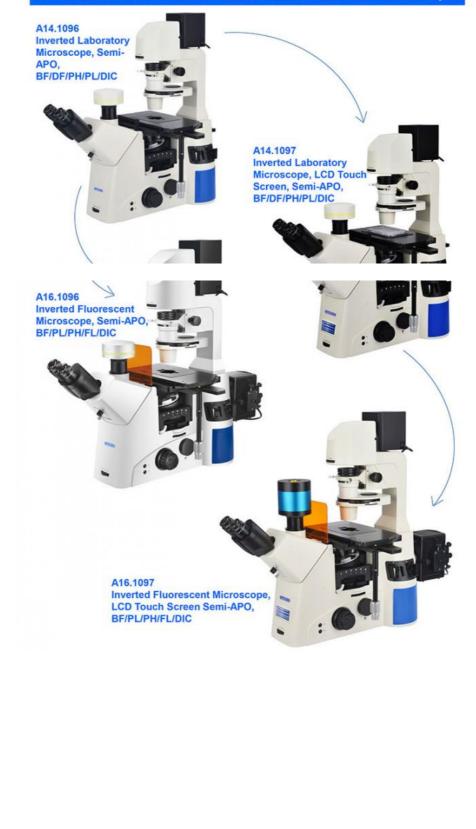
# A16.1096 A16.1097

Inverted Fluorescent Microscope, LCD Touch Screen Semi-APO, BF/PL/PH/FL/DIC

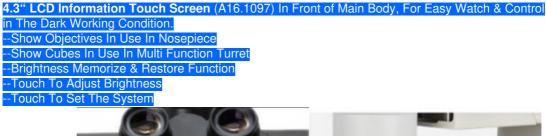
OPTO-EDU

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







Trinocular Head With Built-in Bertrand Lens Three Layer Bechnical Stage

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



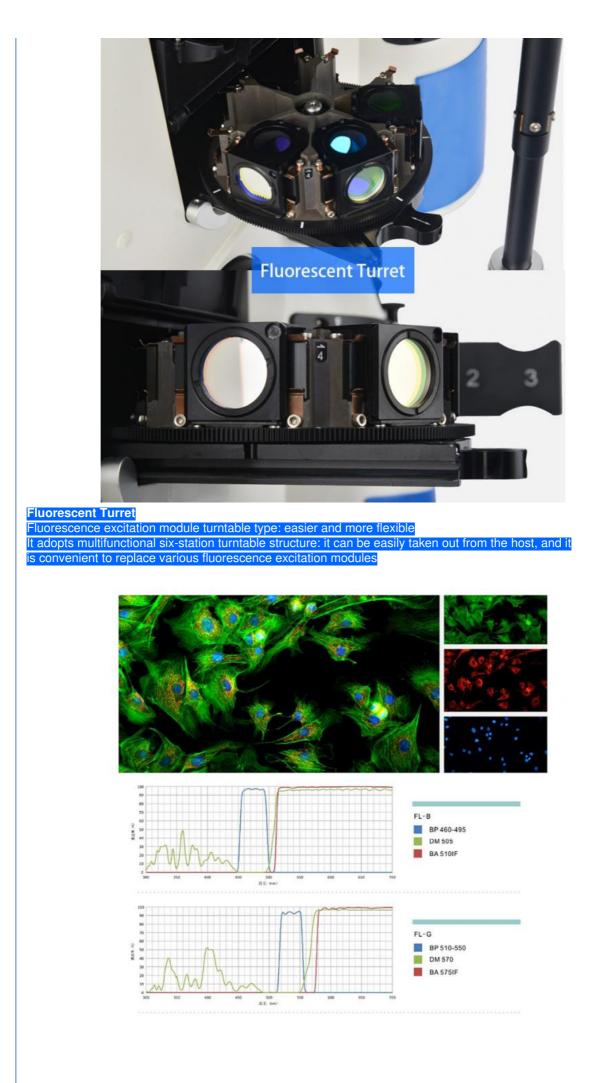


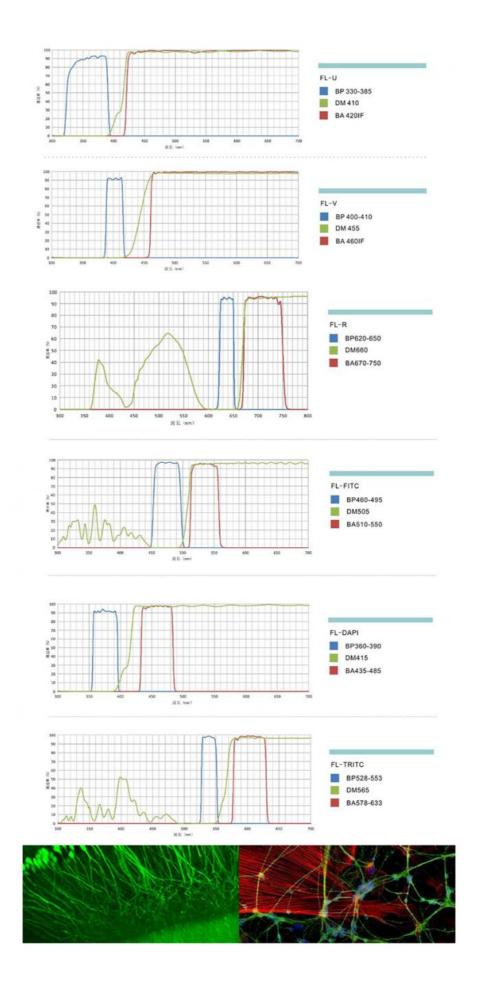
#### Simple And Fast Operation, Iris Slider

Reflective field diaphragm, aperture diaphragm and filter plate, three different types of diaphragm sliders show the versatility of A16.1090 in in vivo cell research. When the aperture diaphragm and the fluorescence filter insert are used together, the fluorescence intensity can be adjusted to the most ideal according to the selected fluorescence module and objective lens

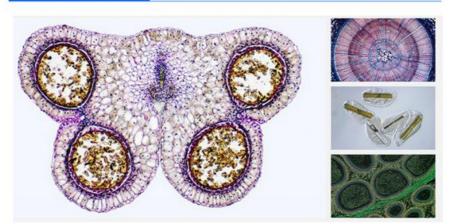


Fluorescent mercury lamp power box The intelligent fluorescent mercury lamp power box adopts air-cooled design, with low noise and stable voltage. The unique automatic memory usage time and shutdown time can ensure that the mercury lamp is fully cooled to the greatest extent, protect the life of the mercury lamp, and improve the mechanical efficiency



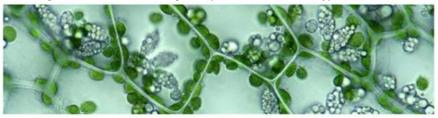


#### **Modular Design**



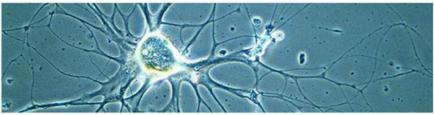
#### Bright Field Observation

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**



#### 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





Dia.54mm Holder Universal Holder

#### Mercury Light Source

The standard osram 100W HBO ultra-high pressure spherical mercury lamp has large fluorescent brightness and uniform field of view. At the same time, a closing gate is set at the front end of the vertical illuminator, which can cut off the fluorescent lighting at any time to protect the sample



Terasaki Holder

Metal Halide Light Source

96-well plates



Optional 75W metal halide light source, bulb life up to 2000 hours. The light intensity is greater, the field of view is brighter and

Dia.38mm Holder



#### LED Light Source

4-color LED light source, adjustable brightness, bulb life is up to tens of thousands of hours. Low phototoxicity and high friendliness to fine samples such as cells, which solves the problems of traditional mercury lamp fluorescence that require preheating, cooling, and high temperature during use

uniform



Resea	rch Level Inverted Biological Microscope	A14.1096	A14.1097	A16.1096	A16.1097	A16.1098	Cata.No.
Optical System	NIS60 Infinite Optical System, Semi-APO	•	•	•	•	•	
	Bright Field	•	٠	•	٠	٠	
	Dark Field	-	-	0	0	0	
	Phase Contrast	•	•	•	٠	٠	
	Polarizing	•	•	•	•	•	
	Flourescent	0	0	•	٠	٠	
Observation	DIC	0	0	0	0	0	

Method

	4.3" LCD Information Touch Screen In Front of Main Body, For Easy Use in Dark Working Condition.						
-CD Screen	Show Objectives In Use In Nosepiece Show Cubes In Use In Multi Function Turret Brightness Memorize & Restore Function Touch To Adjust Brightness	-	•	-	•	0	
	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	<u>_</u>			_	_	451 1000 1005
	Adjustable, Dia.30mm	0	0	0	0	0	A51.1090-1025
	SW10x/22mm, High Eyepoint, Diopter Adjustable, Dia.30mm	•	•	•	•	•	A51.1090-1022
	EW12.5x/17.5mm, High Eyepoint, Diopter	<u>_</u>			_	_	451 1000 10510
Eyepiece	Adjustable, Dia.30mm	0	0	0	0	0	A51.1090-12516
	WF15x/16mm, High Eyepoint, Diopter	0	0	0	0	0	A51.1090-1516
	Adjustable, Dia.30mm WF20x/12mm, High Eyepoint, Diopter						
	Adjustable, Dia.30mm	0	0	0	0	0	A51.1090-2012
	Built-in Media Lens Turret 1.0x, 1.5x, Under Nosepiece	•	•	•	•	-	
Media Lens	Built-in Media Lens Turret 1.0x, 1.5x. CF, Under						
	Nosepiece	-	-	-	-	•	
	Manual Sextuple Nosepiece, With DIC Slot	•	-	•	-	-	
	Coded Manual Sextuple Nosepiece, With DIC Slot	-	•	-	•	-	
Nosepiece	Motorized Coded Manual Sextuple Nosepiece,						
	With DIC Slot, With Objective Protection Function When Switch	-	-	-	-	•	
	The Objectives						
	4x/0.13, W.D.16.5mm, No Cover Glass	0	0	0	0	0	A5C.1098-4
N-iPLFN PH	10x/0.30, W.D.7.4mm, Cover Glass 1.2mm	•	•	•	•	•	A5C.1098-10
nfinity Plan	20x/0.45, W.D.7.5-8.8mm, Cover Glass 0-2mm, With Built-in Correct Ring	•	•	•	•	•	A5C.1098-20
Semi-APO	40x/0.6, W.D.3-4.4mm, Cover Glass 0-2mm,						
nase	With Built-in Correct Ring	•	•	•	•	•	A5C.1098-40
Objective	60x/0.75, W.D.1.8-2.6mm, Cover Glass 0.1- 1.3mm,	0	0	0	0	0	A5C.1098-60
	With Built-in Correct Ring						
	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						
	Three Layer Mechnical Stage, Moving Range						
	130x85mm, Flexible Knob, Available For Different Size Small Stage Mounted on Top	•	•	•	•	-	A54.1098
	Layer Motorized X/Y Axies (Optical Grating Type) Mechnical Stage, Size 325x144mm, Moving						
Working Stage	Range 130x100mm, Max Speed 10mm/s,						
	Resloution 0.1um, Repeat Accuracy +/-0.5um,	-	-	-	-	•	A54.1098-M
	Available For Different Size Small Stage Mounted on Top Layer, With Separate						
	Communication/Main Control Box & Stick						
	Dia.38mm Holder For Slide & Petri Dish	•	•	•	•	•	A54.1098-38
	Dia.54mm Holder For Petri Dish	٠	•	٠	•	•	A54.1098-54
	96 Holes Plate Holder	٠	•	•	•	•	A54.1098-96
	Terasaki Holder	•	•	•	•	•	A54.1098-TH
	Universal Holder	٠	•	•	•	•	A54.1098-UH
			1				
	Long Working Distance Turret Condenser, N.A.0.55, W.D.26mm,						
		•	•	•	•	-	A56.1098
	N.A.0.55, W.D.26mm,	•	•	•	•	-	A56.1098
Condenser	N.A.0.55, W.D.26mm, With 6 Positions For Phase Contrast Annulus,	•	•	•	•	•	A56.1098 A56.1098-M

	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						
Multi Function	Coded Multi Function Turret Under Nosepiece, With 6 Positions For Cubes Of Bright Field, Dark						
Turret	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	0	0	0	0	0	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
	Polarizer Light Block, Put In Multi Function Turret	0	0	0	0	0	A5P.1098-PL
Polarizing For Reflect Light	Circularly Polarized Light Block, Put In Multi Function Turret	0	0	0	0	0	A5P.1098-CP
	Phase Contrast Annulus 10x/20x, Put In Turret Condenser	•	•	•	•	•	A5C.1096-1020
Phase Contrast	Phase Contrast Annulus 40x, Put In Turret Condenser	•	•	•	•	•	A5C.1096-40
	Phase Contrast Annulus 60x, Put In Turret Condenser	0	0	0	0	0	A5C.1096-60
	DIC Annulus 10x, Put In LWD Turret Condenser	0	0	0	0	0	A5C.1097-A10
	DIC Annulus 20x, Put In LWD Turret Condenser	0	0	0	0	0	A5C.1097-A20
	DIC Annulus 40x, Put In LWD Turret Condenser	0	0	0	0	0	A5C.1097-A40
DIC	DIC Annulus 60x, Put In LWD Turret Condenser	0	0	0	0	0	A5C.1097-A60
510	DIC Slider 10x, Insert Into Slot On Nosepiece	0	0	0	0	0	A5C.1097-S10
	DIC Slider 20x, Insert Into Slot On Nosepiece	0	0	0	0	0	A5C.1097-S20
	DIC Slider 40x, Insert Into Slot On Nosepiece	0	0	0	0	0	A5C.1097-S40
	DIC Slider 60x, Insert Into Slot On Nosepiece	0	0	0	0	0	A5C.1097-S60
Illumniation	Transmit/Reflect Illumnation Switch Knob, On Right Side Of Main Body, Press To Switch Transmit And Reflect Switch Light Quickly	•	•	•	•	•	
	12V100W Halogen Kohler Illumination,						
Transmit Light Source	Brightness Adjustable, Flexible Illuminator Body Can Retrovert From Optical Path For Large Space of Operation And Sample Exchange	•	•	•	•	•	A56.1095-12V100\
	10W S-LED Kohler Illumination, Brightness Adjustable	0	0	0	0	0	A56.1095-10WLED
	Large Filter Holder Slide With 3 Holes	0	0	•	•	•	A56.1095-LS
Reflect	Field Diaphram Slide, Center Adjustable,	0	0	•	•	•	A56.1095-FS
Light Source	Small Empty Slide	0	0	•	•	•	A56.1095-ES
9	Aperture Diaphragm Slide	0	0	•	•	٠	A56.1095-AS
	Neutral Filter	0	0	•	•	٠	A56.1095-NE
	Reflect 100W Osram Mercury HBO Fluorescent Light House Intelligent Power Supply Control Box	0	0	•	•	•	A5F.1095-100W
	With Barrier To Stop/Recover Fluorescent Illumination Quickly						
<b>Reflect</b> Fluorescent	10W S-LED Fluorescent Light, 4 Color Bands, Brightness Adjustable By Control Box	0	0	0	0	0	A5F.1095-10WLE
	75W Metal Halide Light Source, Life Time 2000 Hours	0	0	0	0	0	A5F.1095-75WM
Light Source	Fluorescent Filter B Block, Put In Multi Function Turret	0	0	•	•	•	A5F.1095-B
	Fluorescent Filter G Block, Put In Multi Function Turret	0	0	•	•	•	A5F.1095-G
	Fluorescent Filter U Block, Put In Multi Function Turret	0	0	•	•	•	A5F.1095-U
	Fluorescent Filter V Block, Put In Multi Function Turret	0	0	0	0	0	A5F.1095-V
Metallurgical	Upgrade To <u>A13.1090</u> Inverted Metallurgical Microscope	0	0	0	0	0	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	0	0	0	0	0	A55.1095-04
	C-Mount 0.5x	0	0	0	0	0	A55.1095-05
	C-Mount 1.0x	٠	٠	٠	٠	٠	A55.1095-10
Software	NOMIS Basic Image Processiing Software	0	0	0	0	0	A30.1090

**Software Function** 

#### Measurement Function

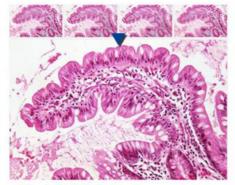
In cell observation and section observation, you need to use the measurement function. To determine the cell size, cell gap, synapse length and other data. The software can provide measurement of distance, angle, rectangle, circle, ellipse, etc.





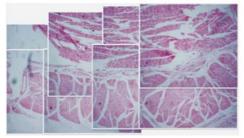
#### Cell Counts

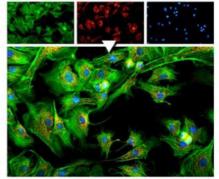
Customize cell counting requirements, automatically count and count the shape information of cells, including: size, location, volume, circumference, brightness, etc. And all data including processed images can be saved as excel sheet



#### 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

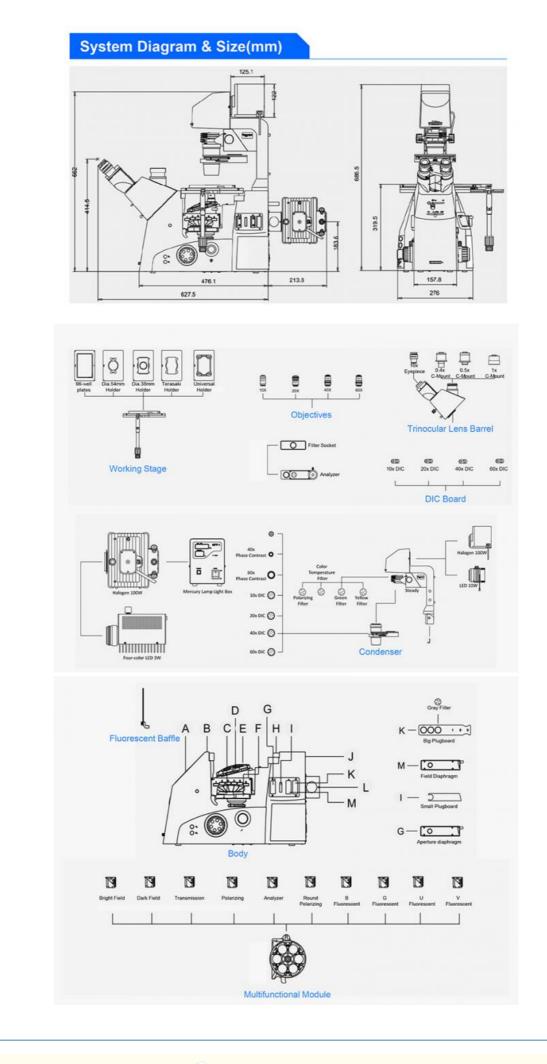




◆ Fluorescence image synthesis By collecting or importing images of different fluorescence channels, users can obtain images after fluorescence synthesis. For the image of each channel, the displacement in the x direction and y direction can be adjusted to achieve the fine-tuning effect

#### Quick Splicing

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



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