Our Product Introduction

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OPTO EDU A64.1010 Full Auto APO Laser Confocal Microscope with Motorized Z Axis and High Speed Hardware Control

Basic Information

• Place of Origin: China • Brand Name: OPTO-EDU Certification: CE, Rohs • Model Number: A64.1099 • 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



Product Specification

• Eyepiece: WF10x/22mm Eyepiece, Diopter Adjustable

+/-5°, High Eyepoint

10-40° Tilt Adjustable Binocular Head Head:

Coded Manual Intermediate Magnification . Mag. Switch: Switch Button 1x/1.5x On Right Side

NIS60 Infinity Plan APO Achromatic

Objective

Motorized Z Axis, Grating Type, Moving Focusing:

Range Up 8.5mm

• Transmit Light: Kohler Illumination, With Field/Iris Diaphragm, 0~25° Titl Adjustable Arm

OPTO EDU Laser Confocal Microscope, • Highlight: Semi APO Laser Confocal Microscope.

Full Auto Laser Confocal Microscope



More Images

• Objective:



Product Description

OPTO EDU A64.1010 Full Auto APO Laser Confocal Microscope

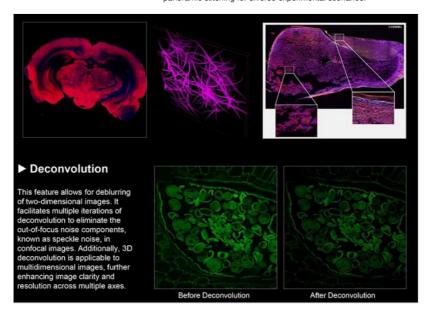
High Speed Hardware Control

This system provides unprecedented operational convenience, enabling digital management and precise control of multiple microscope components including objective lens switching, focusing, condenser lens changing, and fluorescence module transitions.



Multi Dimensional Imaging And Display

The system memorizes custom observation modes and supports combined X, Y, Z, λ , and T scanning functions. It offers flexible shooting modes including multi-channel fluorescence imaging, time-lapse scanning, multi-position acquisition, Z-axis stacking, and panoramic stitching for diverse experimental scenarios.



High Performance Confocal Microscopy Platform

The A16.1099 platform provides a powerful, flexible imaging solution with 25mm field of view, ideal for large sample research. It integrates brightfield, fluorescence, DIC, and phase contrast techniques with optional single or dual-layer optical paths. The Adaptive Focus Shift System (AFS) ensures precise focal plane positioning for stable recordings of cellular dynamics.

A64.1010 Details

OPTO-EDU

High Speed Electric Motor Control

Enhanced operation speeds for objectives, filter blocks, XY stage, and observation modules create an effortless workflow. The intuitive joystick control makes the microscope an extension of the researcher's hands.



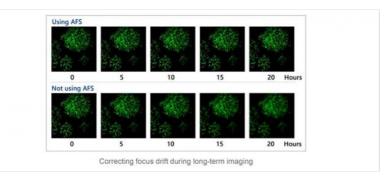
Live Cell Culture System

Precisely regulates platform temperature, humidity, and CO2 concentration for ideal long-term cell cultivation conditions.



AFS Ensures Stable Imaging Performance

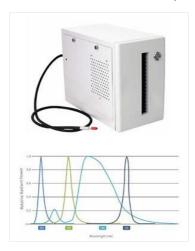
Independent focusing design minimizes mechanical impact on Z-axis. The Adaptive Focus System intelligently eliminates drift, delivering crisp images across techniques including super-resolution, confocal, and TIRF microscopy.



High Power LED Fluorescence Illuminator

4-channel LED system offers high compatibility with common dyes, concentrated excitation energy, and reduced photobleaching.

Instant-on capability and long lifespan make it superior to mercury lamps.



Smart Interactive Operation

5.6-inch touch screen enhances interface convenience while retaining traditional controls for intuitive operation in dark environments.



Technical Specifications

Component	Description	Included	Catalog No.
Main Frame	Motorized Frame with 5.7" Touch Screen	•	
Eyepiece	WF10x/22mm, Diopter Adjustable +/-5°	••	A51.1006-1022A
Objectives	NIS60 Infinity Plan APO Achromatic 4x-100x	•/o	A52.1099 series
Working Stage	Motorized XY 130x100mm, Precision 0.1μm	•	
Laser Confocal	4 Laser Source (405,488,561,640nm), 4 PMT Detection	•	
Computer	i7-11700/32GB DDR4/1TB SSD/RTX A2000	•	

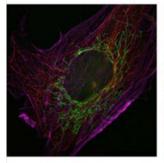
Multimodal Capabilities

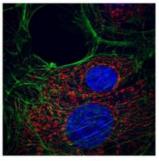
Brightfield, Phase Contrast, Fluorescence, DIC
Field of View up to 66µm x 66µm at 100X
Lateral Resolution (2D-SIM) improved 2-fold to 86nm
Axial Super-Resolution (3D-SIM) to 270nm
Real-time super-resolution imaging at video rate

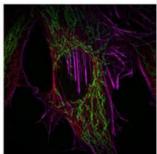
Capable of Super Resolution Module

OPTO-EDU









A64.1010 Lase	er Confocal Microscope		Cat
Confocal	4 Channels Laser Confocal	•	
Laser Source	4 Laser Source With AOTF, Max Laser Power 50mW, 405nm, 488nm	,	
	561nm, 640nm		
Detector	4 PMT Detector EX 405nm, 488nm, 561nm, 640nm, Captuer Set,		
	Control Set		
	Channel 1 EM:440-470		
	Channel 2 EM:510-540		
	Channel 3 EM:575-605		
	Channel 4 EM:679-727		
Scan Head	Max Pixel 8192x8192 (8K x 8K)	•	
Scan Mode	Support Combine Use of X,Y,Z,λ,T Scanning Functions		
Pinhole	Motorized Pinhole Stepless Adjustment, Galvanometer Scanning		
	Mirror,		
Field of View	Confocal Field of View: Square Inscribed In Dia. 25mm Circle	•	
Depth of Image	e 16 Bits	•	
Computer	7-11700/16GB*2 DDR4/1TB SSD/RTX A2000 6G/USB PCIE Card,		
	4x USB3.0, Win 11		
Monitor	31" 4K Monitor	•	
	4K 8.0M 1.1" CMOS, Work With 1x C-Mount, FOV 18mm,		
	4K@FPS23.4, Max FPS46.3		
Camera	24M Digital Camera, 2.7" CMOS, Work With 1.5x C-Mount (M52), 6K		A55
	High Resolution, 15.3FPS@20M, Max FPS 114	О	241

Port	Left Side Confocal Port With 1x Lens	•	_
	Nomis Pro X-C, Equipped With Confocal Scanning Function, Multi-		
	dimensional Imaging, And Preset Function By Channel, Possesses		
Software	Various Imaging Functions Such As Wide Field And Confocal	•	
	Imaging. The Software Has Complete Control Module For The		
	Hardware, With Built-in Basic Image Filtering And Supports Image		
Minumana	Output In Multiple Formats.	_	_
Microscope	NIS60 Infinity Plan Optical System, BF, PH, Hoffman, PL, DIC, FL	•	
Main Frame	Motorized Microscope Frame		
	5.7" Touch Screen, Show All Status, Control All Parts		
	Motorized Z Axis Control Working Stage Focusing		
	Coded Brightness Adjust Knob		
	F1 Button For Customized Function		
	Motorized Nosepiece Objective Switch	•	
	Motorized Condenser Turret Control		
	Motorized Layers Fluorescent Turret Control		
	Coded Manual Intermediate Magnification 1x/1.5x Switch Button		
	Coded Manual Bertrand Lens Switch & Status Detection		
	Motorized 4 Light Split Switch: E100/L100/R/100/E20:R80		
	1x/1.5x Magnification Switch		
Eyepiece	WF10x/22mm Eyepiece, Diopter Adjustable +/-5°, High Eyepoint	••	A5
lood	10-40° Tilt Adjustable Binocular Head, IPD 47-78mm, Eyepiece Tube		
Head	Dia. 30mm	•	A5
	Motorized 6 Holes Nosepiece, With DIC Slot, M25×0.75	•	A5
Nosepiece	Motorized 6 Holes Nosepiece, With Adaptive Anti-Focus Shift System		A5
	(AFS)	0	MA
	4x, N.A.0.2, W.D.20mm, Cover Glass -	0	A5
	10x, N.A.0.45, W.D.4mm, Cover Glass 0.17mm		A5
NIS60	20x, N.A.0.75, W.D.1.1mm, Cover Glass 0.17mm		A5
Infinity Plan	40x, N.A.0.95, W.D.019-0.21mm, Cover Glass 0.17mm	•	A5
APO	60x (Oil), N.A.1.42, W.D.0.25mm, Cover Glass 0.17mm		A5
Achromatic	1 7		
Objective	100x(Oil), N.A.1.45, W.D.0.13mm, Cover Glass 0.17mm	0	A5 A5
	100x(Oil), N.A.1.49, W.D.0.09-0.16mm, Cover Glass	o	
	0.13~0.19(23C°), 0.14~0.20(37°C)		10
	Motorized Working Stage, Grating Type, XY Moving 130x100mm,	_	
	Size 445x300mm, Max Speed 20mm/s, Moving Precision 0.1µm,	•	
	Repeatability 0.5µm		_
working Stage	Slide & Petri Dish Holder For Dia. 35-65mm	•	
	4~1396 Holes Plate Holder	•	
	Holder For 96 Holes Petri Dish	0	A5
	Holer For For Olympus 6 Holes Petri Dish	0	A5
	Motorized Z Axis, Optical Grating Resolution 10nm, Moving Range Up		
Focusing	8.5mm, Down 1.5mm, Min Step 0.02um, Repeatability 0.1um, 3 Level		
	Focusing Knob: 2um/ 40um/ 200um Per Circle		
	Kohler Illumination, With Field/Iris Diaphragm, 0~25° Titl Adjustable		_
	Arm		
Transmit Light	Electrical Optical Brake Optional		
	3W S-LED Lamp House	•	+
	Motorized 7 Holes Condenser Turret,		_
	1		
Candanaar	-4 Small Holes Dia.37mm For Phase Contrast, Hoffman, ND Filter,	•	
Condenser	3 Big Holes Dia.39mm For DIC, ND Filters,		
	Up/Down Range 66mm		_
	Long Working Distance Condenser NA=0.52,WD=30mm	•	_
	10.00 81.00 1.11		
	10x-20x Phase Contrast Module	_	$\neg \neg$
Phase Contras	40x Phase Contrast Module	•	
Phase Contras	40x Phase Contrast Module Coded Manual Bertrand Lens For Polarizing, Switch In/Out Light	•	
Phase Contras	40x Phase Contrast Module Coded Manual Bertrand Lens For Polarizing, Switch In/Out Light Path, Focus Adjustable	•	
Phase Contras	40x Phase Contrast Module Coded Manual Bertrand Lens For Polarizing, Switch In/Out Light Path, Focus Adjustable DIC Set, Including Manual Splitter, With Optical Fiber, View Field	•	
Phase Contras	40x Phase Contrast Module Coded Manual Bertrand Lens For Polarizing, Switch In/Out Light Path, Focus Adjustable DIC Set, Including Manual Splitter, With Optical Fiber, View Field 18mm, With DIC Prism Slide (Into Nosepiece DIC Slot), DIC Polarizer	•	A5
Phase Contras	40x Phase Contrast Module Coded Manual Bertrand Lens For Polarizing, Switch In/Out Light Path, Focus Adjustable DIC Set, Including Manual Splitter, With Optical Fiber, View Field	•	
Phase Contras	40x Phase Contrast Module Coded Manual Bertrand Lens For Polarizing, Switch In/Out Light Path, Focus Adjustable DIC Set, Including Manual Splitter, With Optical Fiber, View Field 18mm, With DIC Prism Slide (Into Nosepiece DIC Slot), DIC Polarizer	•	A5
Phase Contras	40x Phase Contrast Module Coded Manual Bertrand Lens For Polarizing, Switch In/Out Light Path, Focus Adjustable DIC Set, Including Manual Splitter, With Optical Fiber, View Field 18mm, With DIC Prism Slide (Into Nosepiece DIC Slot), DIC Polarizer Slide, DIC Analyzer Slide Insert In Nosepiece DIC Slot, 10x DIC Nocaridan Prism Slide	•	A5 A5 N1 A5
Phase Contras	40x Phase Contrast Module Coded Manual Bertrand Lens For Polarizing, Switch In/Out Light Path, Focus Adjustable DIC Set, Including Manual Splitter, With Optical Fiber, View Field 18mm, With DIC Prism Slide (Into Nosepiece DIC Slot), DIC Polarizer Slide, DIC Analyzer Slide	•	A5 N1 A5 N2
Phase Contras	40x Phase Contrast Module Coded Manual Bertrand Lens For Polarizing, Switch In/Out Light Path, Focus Adjustable DIC Set, Including Manual Splitter, With Optical Fiber, View Field 18mm, With DIC Prism Slide (Into Nosepiece DIC Slot), DIC Polarizer Slide, DIC Analyzer Slide Insert In Nosepiece DIC Slot, 10x DIC Nocaridan Prism Slide	•	A5 N1 A5

Insert In Nosepiece DIC Slot, 60x DIC Nocaridan Prism Slide	•	A5 N6
Insert In Nosepiece DIC Slot, 100x DIC Nocaridan Prism Slide	0	A5 N1
In Condenser Turret, 10x DIC Walker Prism,	•	A5 W1
In Condenser Turret, 20x/40x/60x DIC Walker Prism	•	A5 W2
In Condenser Turret, 100x DIC Walker Prism	o	A5 W1
Epi Fluorescent LED Light Source, 4 Bands 385nm, 470nm, 555nm,		
630nm, With Optical Fiber & Fiber Adapter, 2 Holes Filter Insert Plate		
Iris Diaphragm	•	
LED Light Box	•	
LED Light Controller Box	•	
Motrozied 6 Holes Fluorescent Turret Disc, Motorized Shutter, With Cable	•	
2nd Layer Fluorescent Turret Set, Including Z Axis Heighten Base, Fluorescent Turnable Heighten Seat, Stage Heighten Seat	o	A5I
FITC Filter, BP460-495, DM505, BA510-550	•	\top
TRTC Filter, BP528-553, DM565, BA578-633	•	\top
DAPI Filter, BP360-390, DM415, BA435-485	•	+
Coded Light Split Status Detection: 100/0, 0/100	•	
Coded Manual Intermediate Magnification Switch Button 1x/1.5x On	-	
Right Side	•	
Motorized Light Split Switch, Control By Front 5.7" Touch Screen:		
Eyepiece 100%,		
Left Photo Port 100%,	•	
Right Photo Port 100%,		
Eyepiece 20% + Right Photo Port 80%		
Left Photo Port, With Built-in 1x C-Mount	•	A55
0.7x C-Mount For Left Photo Port	0	A55
0.5x C-Mount For Left Photo Port	0	A55
1x C-Mount For Right Photo Port,	•	A55
Joystick For XYZ Motorized Control, Touch Screen Show Objectives,		
	•	
Fluorscent Filters, Customized Shortcut Button		_
Fluorscent Filters, Customized Shortcut Button Full Set Tool Kit For Installation	•	
Fluorscent Filters, Customized Shortcut Button	•	<u> </u>
	Insert In Nosepiece DIC Slot, 100x DIC Nocaridan Prism Slide In Condenser Turret, 10x DIC Walker Prism, In Condenser Turret, 20x/40x/60x DIC Walker Prism In Condenser Turret, 100x DIC Walker Prism Epi Fluorescent LED Light Source, 4 Bands 385nm, 470nm, 555nm, 630nm, With Optical Fiber & Fiber Adapter, 2 Holes Filter Insert Plate Iris Diaphragm LED Light Box LED Light Controller Box Motrozied 6 Holes Fluorescent Turret Disc, Motorized Shutter, With Cable 2nd Layer Fluorescent Turret Set, Including Z Axis Heighten Base, Fluorescent Turnable Heighten Seat, Stage Heighten Seat FITC Filter, BP460-495, DM505, BA510-550 TRTC Filter, BP528-553, DM565, BA578-633 DAPI Filter, BP360-390, DM415, BA435-485 Coded Light Split Status Detection: 100/0, 0/100 Coded Manual Intermediate Magnification Switch Button 1x/1.5x On Right Side Motorized Light Split Switch, Control By Front 5.7" Touch Screen:Eyepiece 100%,Left Photo Port 100%,Right Photo Port 100%,Eyepiece 20% + Right Photo Port 80% Left Photo Port, With Built-in 1x C-Mount 0.7x C-Mount For Left Photo Port	Insert In Nosepiece DIC Slot, 100x DIC Nocaridan Prism Slide In Condenser Turret, 10x DIC Walker Prism, In Condenser Turret, 20x/40x/60x DIC Walker Prism In Condenser Turret, 100x DIC Walker Prism In Condenser Turret, 100x DIC Walker Prism Epi Fluorescent LED Light Source, 4 Bands 385nm, 470nm, 555nm, 630nm, With Optical Fiber & Fiber Adapter, 2 Holes Filter Insert Plate Iris Diaphragm LED Light Box LED Light Controller Box Motrozied 6 Holes Fluorescent Turret Disc, Motorized Shutter, With Cable 2nd Layer Fluorescent Turret Set, Including Z Axis Heighten Base, Fluorescent Turnable Heighten Seat, Stage Heighten Seat FITC Filter, BP460-495, DM505, BA510-550 TRTC Filter, BP560-390, DM415, BA435-485 Coded Light Split Status Detection: 100/0, 0/100 Coded Manual Intermediate Magnification Switch Button 1x/1.5x On Right Side Motorized Light Split Switch, Control By Front 5.7" Touch Screen: Eyepiece 100%,Left Photo Port 100%,Eleft Photo Port, With Built-in 1x C-Mount 0.7x C-Mount For Left Photo Port

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