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

Our Product Introduction

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
- Head: 10-40° Tilt Adjustable Binocular Head
- Mag. Switch: Coded Manual Intermediate Magnification Switch Button 1x/1.5x On Right Side
- Objective: NIS60 Infinity Plan APO Achromatic Objective
- Focusing: Motorized Z Axis, Grating Type, Moving Range Up 8.5mm
- Transmit Light: Kohler Illumination, With Field/Iris Diaphragm, 0~25° Titl Adjustable Arm
- Highlight: **OPTO EDU Laser Confocal Microscope**, **Semi APO Laser Confocal Microscope**, **Full Auto Laser Confocal Microscope**

More Images

Product Description

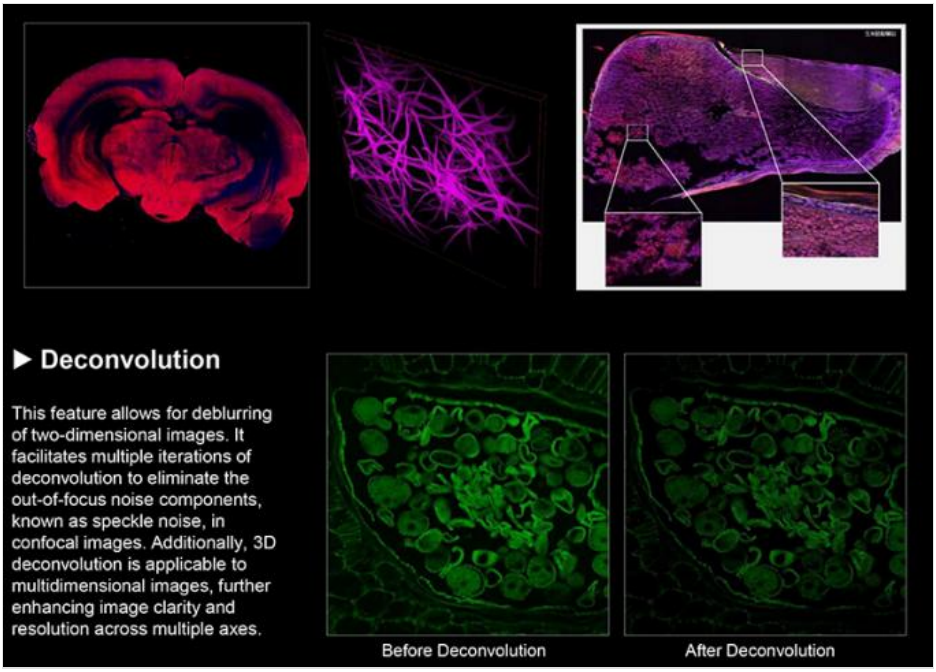
OPTO EDU A64.1010 Full Auto Semi APO Laser Confocal Microscope

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

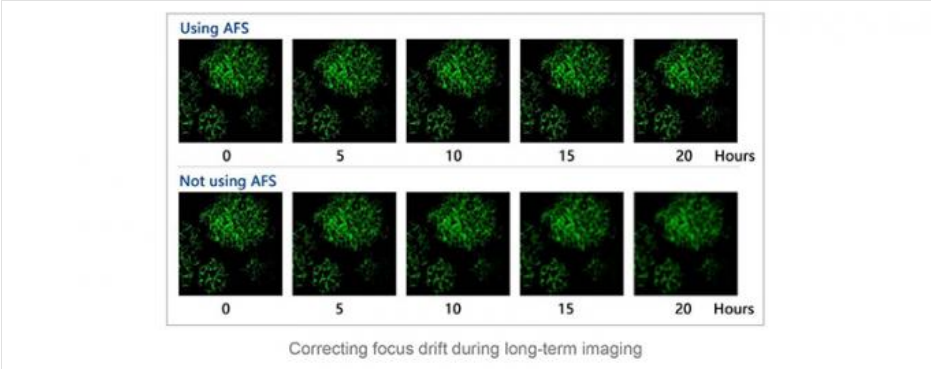
Enhanced operation speeds for objectives, filter blocks, XY stage, and observation modules create an effortless workflow. The intuitive joystick control makes the microscope an extension of the researcher's hands.

Live Cell Culture System

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

AFS Ensures Stable Imaging Performance

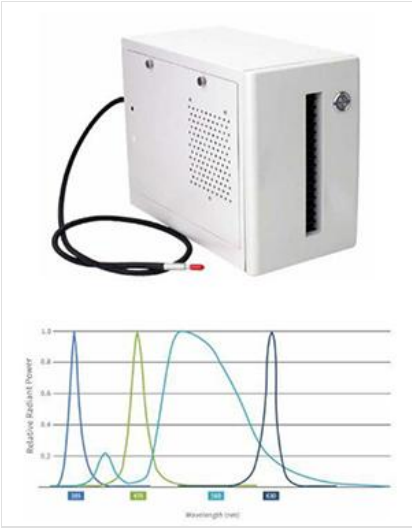
Independent focusing design minimizes mechanical impact on Z-axis. The Adaptive Focus System intelligently eliminates drift, delivering crisp images across techniques including super-resolution, confocal, and TIRF microscopy.



Correcting focus drift during long-term imaging

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

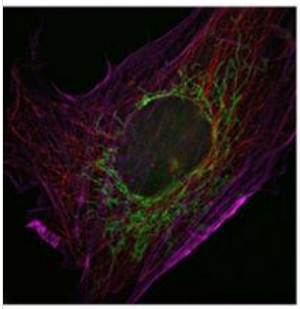
Brightfield, Phase Contrast, Fluorescence, DIC

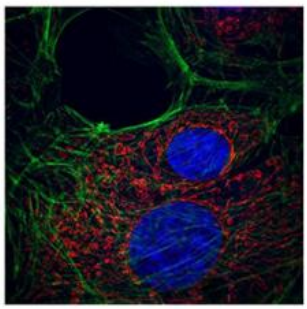
Field of View up to 66μm x 66μm at 100X

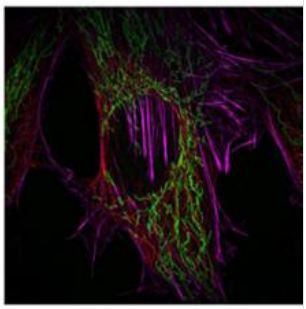
Lateral Resolution (2D-SIM) improved 2-fold to 86nm

Axial Super-Resolution (3D-SIM) to 270nm

Real-time super-resolution imaging at video rate







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