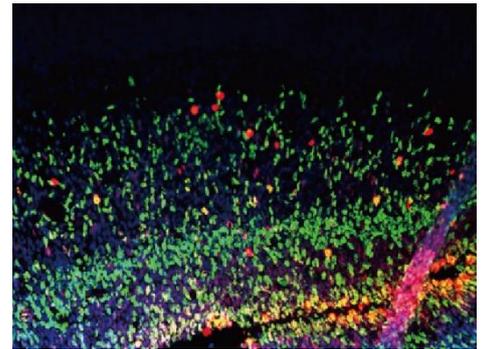
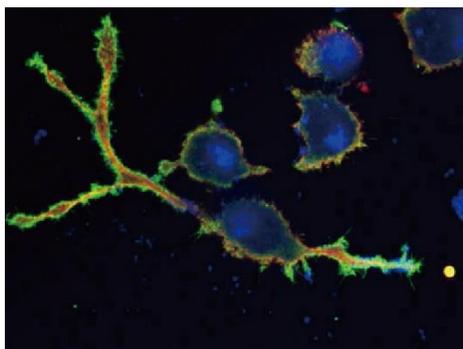
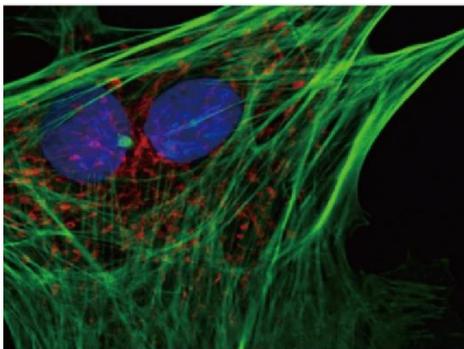


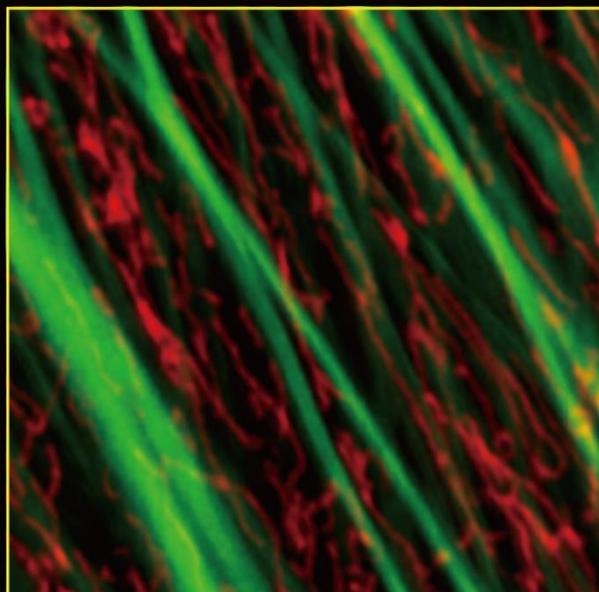


A64.0960

Laser Confocal Scanning Microscope, Full Auto
Motorized, BF+PL++FL+DIC



High precision observation and accurate analysis can be realized in a very short time



BP4E cell (ThermoFisher) 60X
Mitochondria (Red), F-ACTIN (Green),
cell nucleus (Blue)



► Laser Light

405nm/50mW, 488nm/50mW, 561nm/50mW, 640nm/40mW

► Confocal Scan Module

X/Y dual axis high speed optical scanning, resolution 4Kx4K, field of view 19mm, zoom scanning 1x-16x

► Probe Unit

Standard 3 MA PMTs, GaAsP PMT Optional

► Microscope

Inverted Fluorescent Microscope, full motorized, infinity plan SUPER APO objective 10x20x40x60x100x

► Camera

5 million pixels, color camera, SONY IMX264, frame rate 35fps, USB3.0, 0.65x C-Mount

► Software

Photo and preview parameter self-adaptive; two rescan processing; image rotation output; full vision and ROI scanning image, support XY, XYZ, XYZT

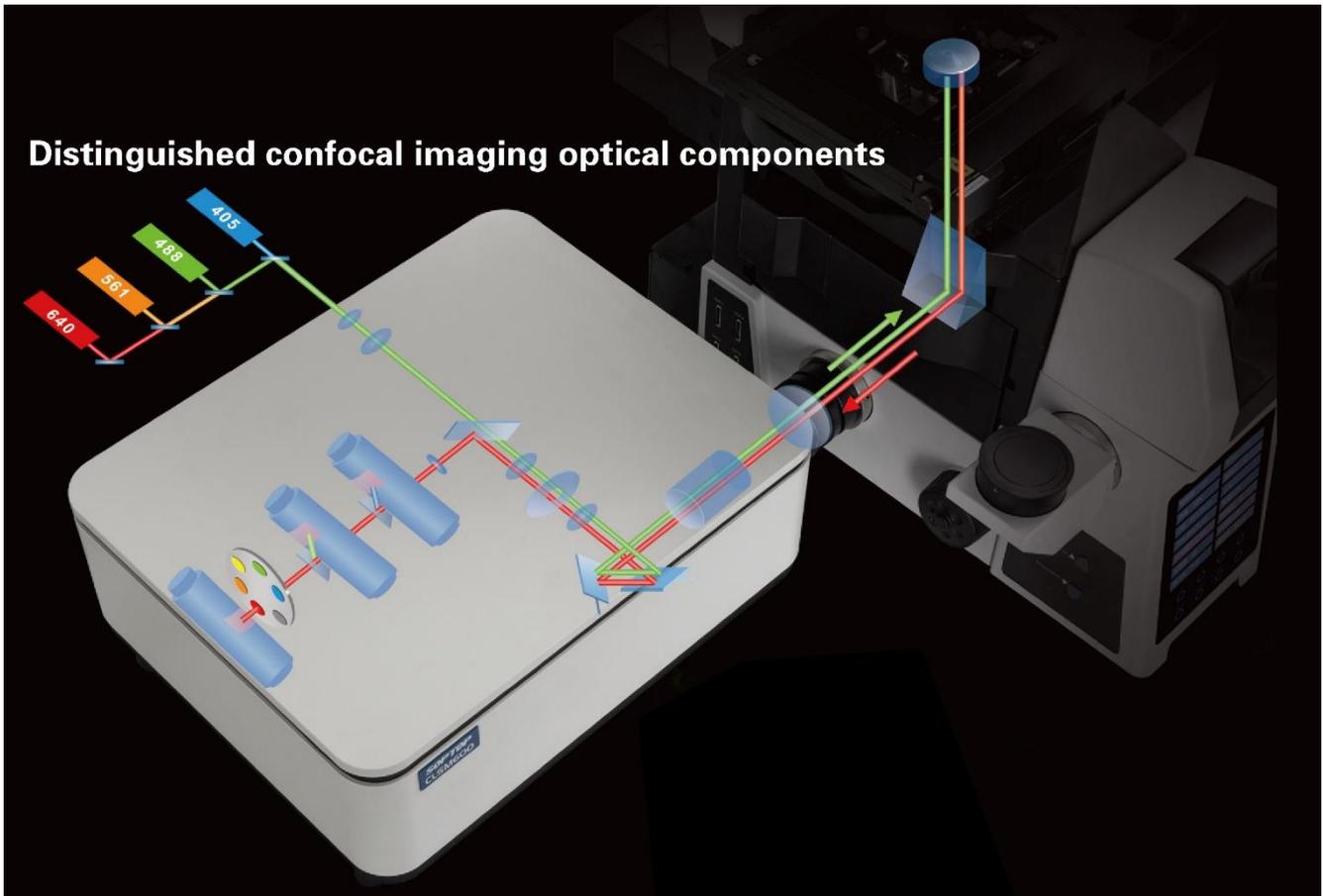
► Computer

CPU: Intel I7 or above, RAM: $\geq 16\text{G}$, Hard disc: $\geq 1\text{T}+256\text{G}$, Graphics card: Single, Monitor: ≥ 27 inch, resolution 2560×1440 , Operation system: 64 bite, Windows X10

► Innovative Confocal Pinhole Unit

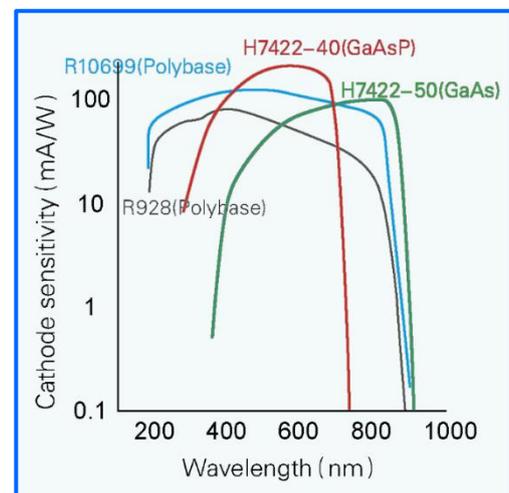
Pinhole design is based on the principle of light reversibility. The excitation light of the lamp and the emission light of the sample pass through the same pinhole, and they keep a 100% conjugate relationship.

It not only ensures the acquisition efficiency of fluorescence signal, but also improves the filtering of non-focal plane signal, for the higher detection sensitivity and better image resolution.



► Controller Probe Unit

The probe unit consists of a 6-position electric filter turntable with 4 filters as standard and a single high-sensitivity multi base photomultiplier tube (MA PMT, $QE \geq 25\% @ 500\text{nm}$), is able to easily and quickly automatically complete multicolor fluorescence confocal imaging.



► Tilting Transmitted Illumination

The transmission system adopts the tilting structure to ensure Larger working space, easier to change samples.



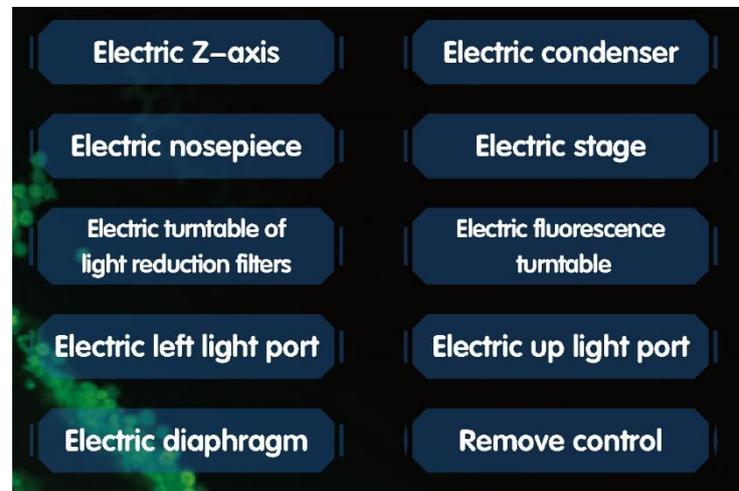
► Front LCD Panel

It is able to display the status of electric parts in real time, and set the observation mode, switch the light brake, etc., which greatly improves the user experience and makes the research work more convenient.

► Full motorized control system

The height of electric Z- axis is able to be fast adjusted according to real-time image. Auto focusing by AF key, eliminate the step of fine tuning. improve work efficiency.

Integrated control buttons on both sides of the frame, can quickly switch on rotate the condenser, brightness, objective lens, attenuator disc and fluorescence disc, improve the operation convenience.



► High scalable

The big frame provides sufficient space for third-party configurations. Single -layer optical path or double -layer optical path can be selected as required. It can be loaded into 16 filters at most, providing maximum scalability for the in- depth research.

► APO Series Apochromatic Objectives

Converging the optic axes of red, green and blue to one focal plane, correcting the axial chromatic aberration of violet light, the original color of samples is able to be presented. And the resolution and effective magnification are improved based on large numerical aperture.

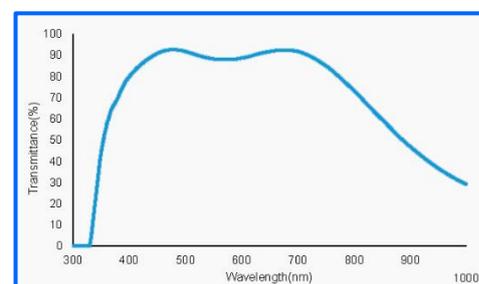


► SAPO Series **SUPER** Apochromatic Objectives

With large numerical aperture, excellent color difference correction and flat field, more uniform, bright and high-resolution fluorescence images can be obtained.

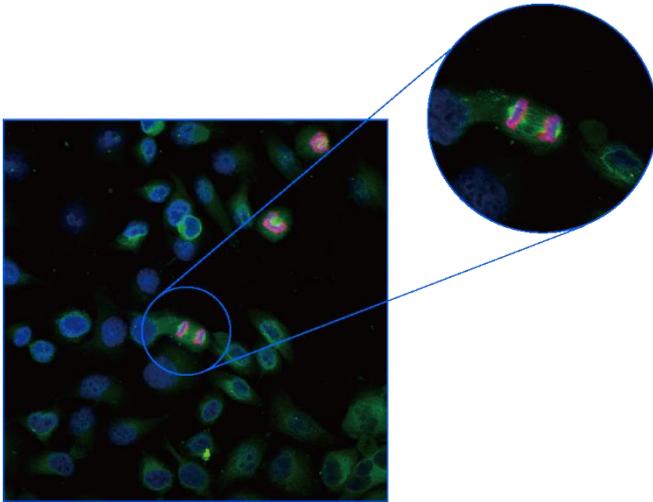


| Model | Magnification | N.A. (N.A.) | W.D. (mm) | C.G. (mm) | Immersion Oil |
|---|---------------|-------------|-----------|-----------|---------------|
| APO Series Apochromatic Objectives | 2x | 0.08 | 6.20 | / | / |
| | 4x | 0.16 | 12.80 | / | / |
| | 10x | 0.40 | 3.20 | 0.17 | / |
| | 20x | 0.75 | 0.60 | 0.17 | / |
| | 40x | 0.95 | 0.15 | 0.17 | / |
| | 60x | 0.90 | 0.26 | 0.17 | / |
| | 60x | 1.25 | 0.14 | 0.17 | oil |
| | 100x | 1.35 | 0.13 | 0.17 | oil |
| SAPO Series Super Apochromatic Objectives | 10x | 0.40 | 3.10 | 0.17 | / |
| | 20x | 0.80 | 0.60 | 0.17 | / |
| | 40x | 0.95 | 0.18 | 0.17 | / |
| | 60x | 1.42 | 0.17 | 0.17 | oil |
| | 100x | 1.45 | 0.14 | 0.17 | oil |

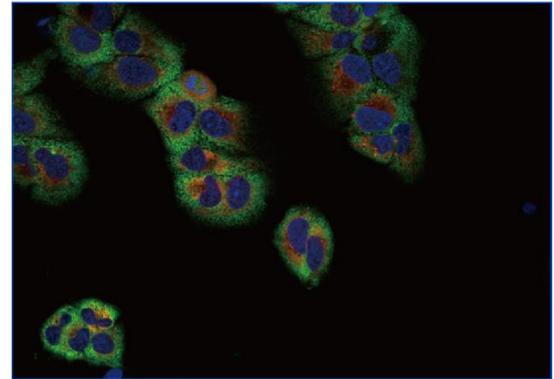


► Cell Imaging

A64.0960 is able to accurately image all cells labeled with various fluorescent proteins and multicolor probes, studying the fluorescence colocalization, dynamic properties and spatial relationships of two or more target proteins. Besides, A64.0960 can achieve the morphological structure of 3D cell culture such as organoids/globules by 3D reconstruction, finding out more hidden information.



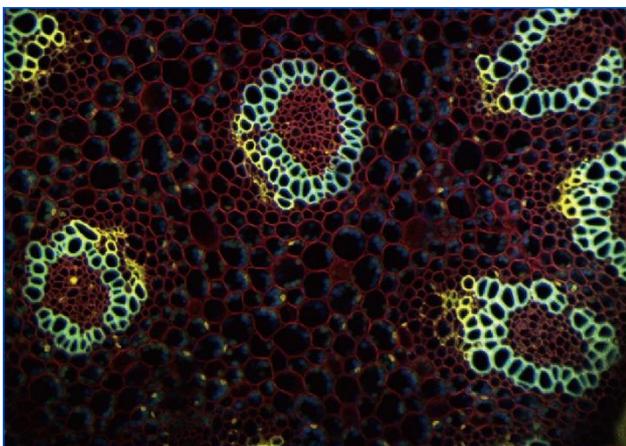
HELA Cell Peking
University Health Center 60X



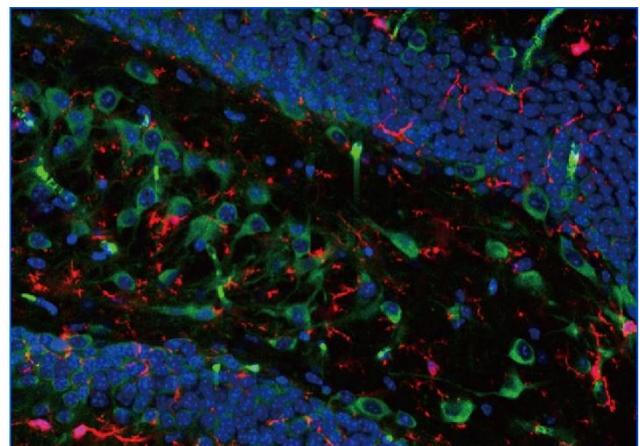
Human hepatocytes
(Zhejiang University) 40X

► Histopathological sections of animals and plants

The layer scanning of A64.0960 is suitable for different histopathological sections of animals and plants, especially for large tissue. Much more details and more accurate data are available.



Convallaria rhizome
(Zhejiang University) 20X



Hippocampal slice (Chinese Military
Academy of Science) 40X

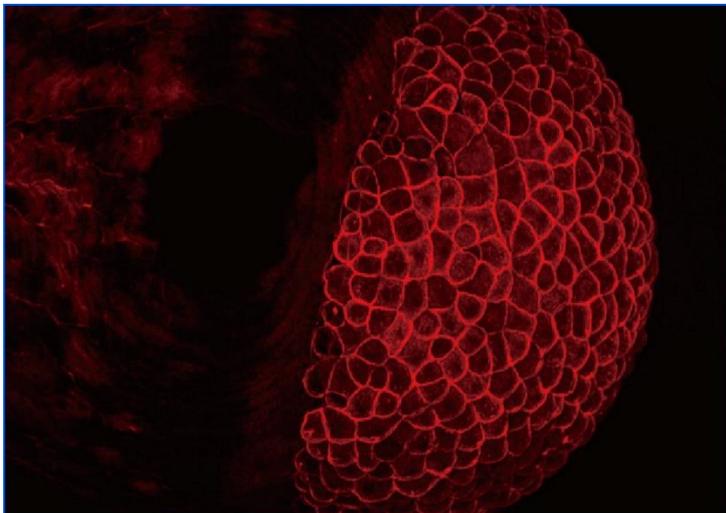
► Viviperception of model animals and plants

In general, common model organisms such as zebrafish, fruit flies, nematodes and Arabidopsis thaliana are characterized by large size, complex structure, and high density. With wide FOV and layer scanning,

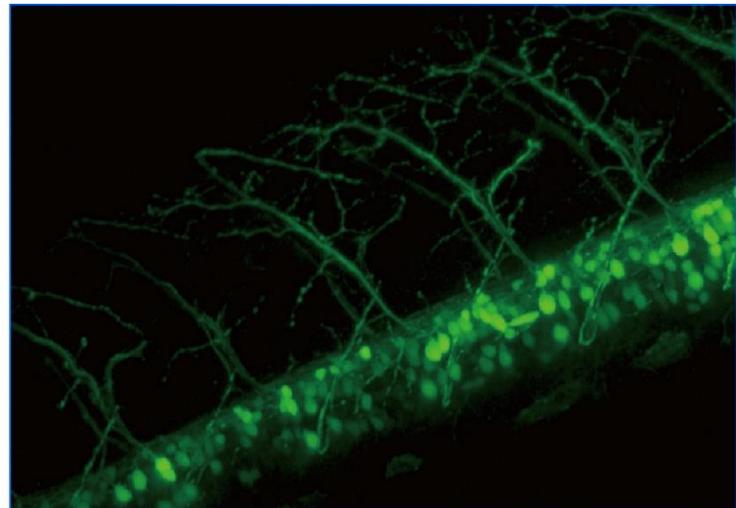
A64.0960 is an ideal tool to get fine structure image and details at different depths



Arabidopsis root (Huazhong Agricultural University) 40X



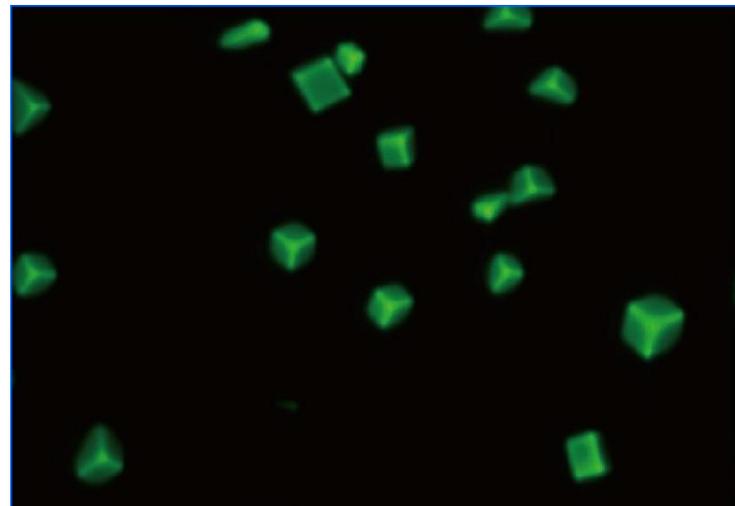
Zebrafish embryo (West China Hospital) 20X



Zebrafish nerves (West China Hospital) 40X

► Biomaterial

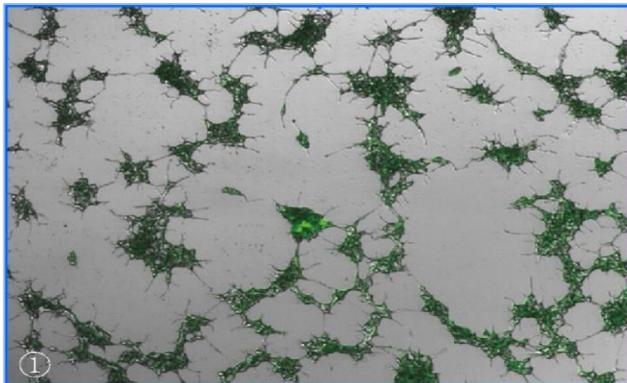
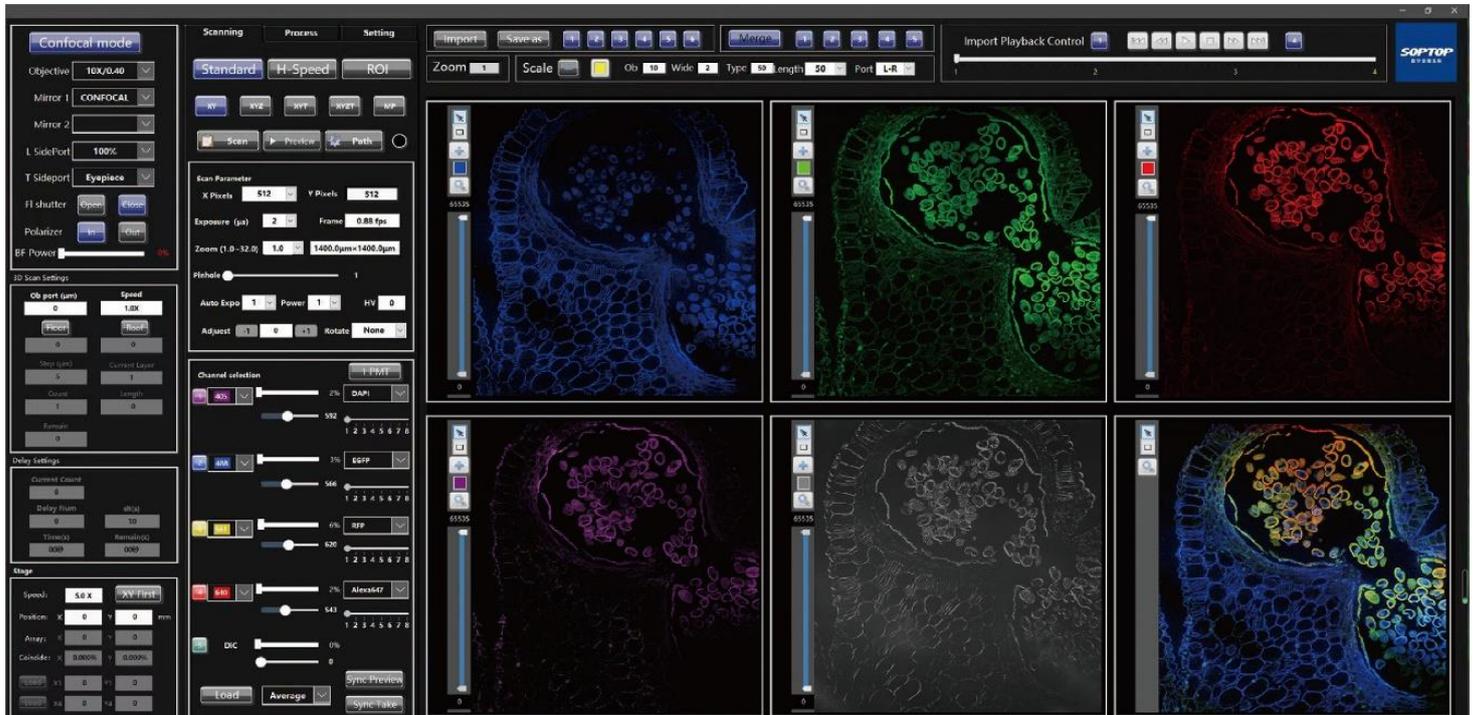
In the field of biophotonics, the research heat of biological information and nanomaterials is increasing. In the study of photoelectric materials, A64.0960 can cooperate with the living cell environment monitoring module to observe the process of interaction between materials and cells for the fusion of new functional materials, inorganic nano hybrid materials and living cells.



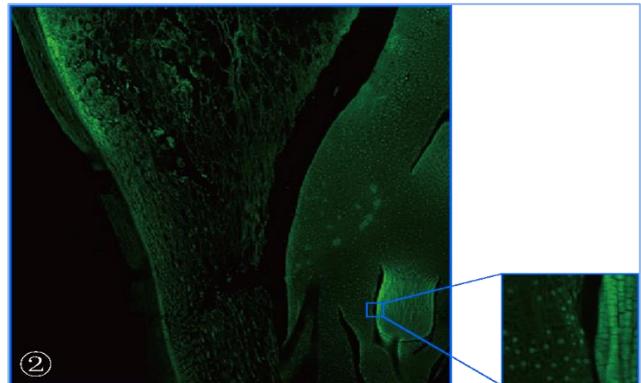
Functional materials (Wuhan University of Technology) 60X

► Confocal Software

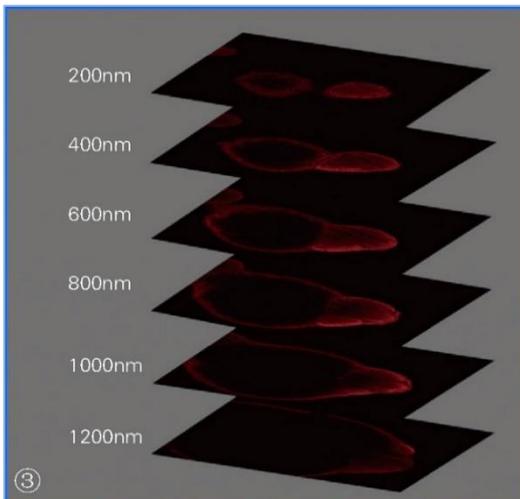
Support single channel or multi-channel 2D Imaging (XY), 3D imaging (XYZ), 4D imaging (XYZT) and multi-site scanning. It is available for imaging, photobleaching and photo stimulation within a user-defined ROI, as well as Z-Stack imaging, jigsaw puzzles, scale correction, filtering processing, data recording, etc.



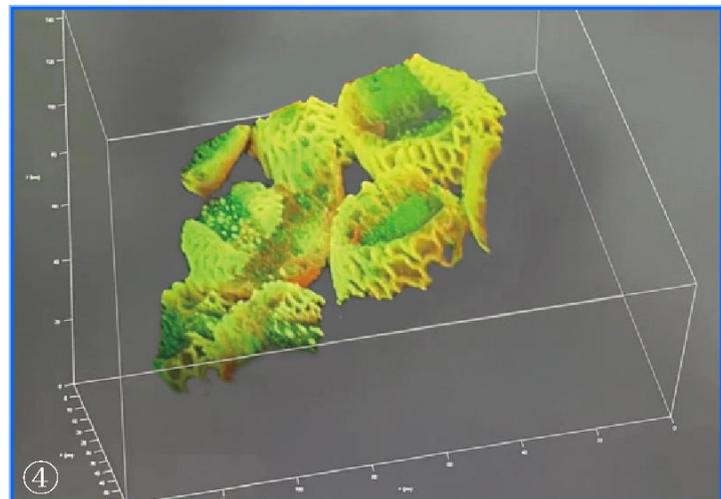
Hek 293t cell 60X DIC



Corn root 40X Large image mosaic



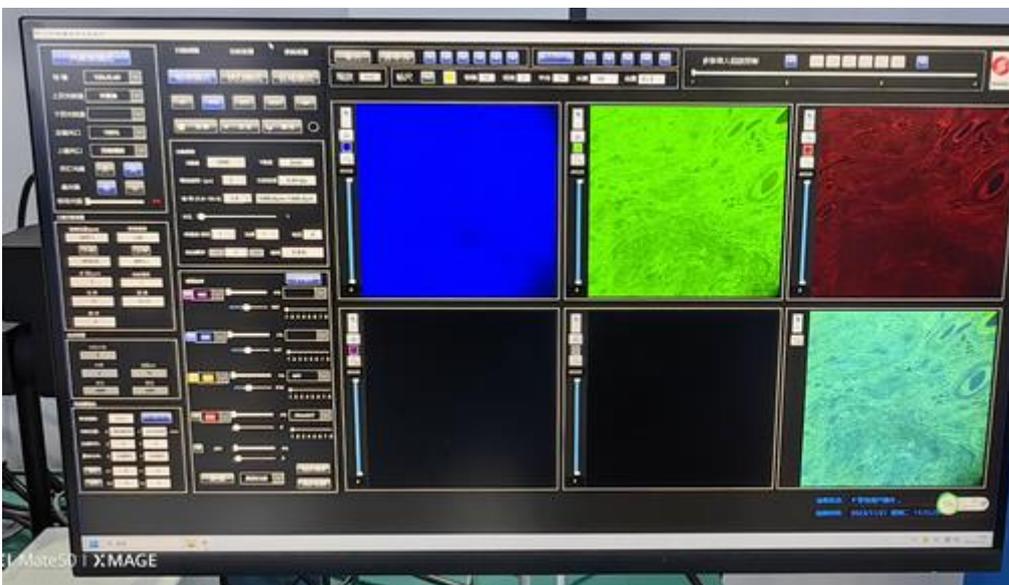
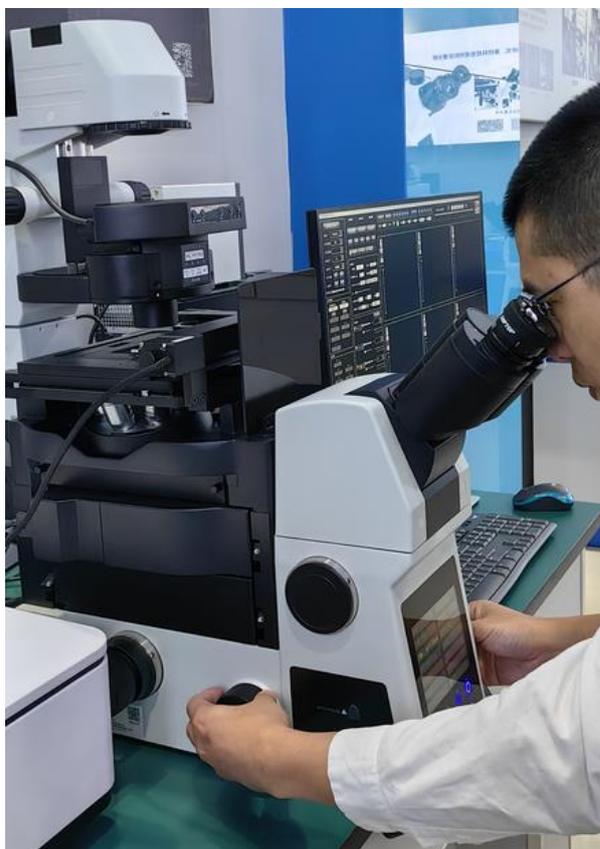
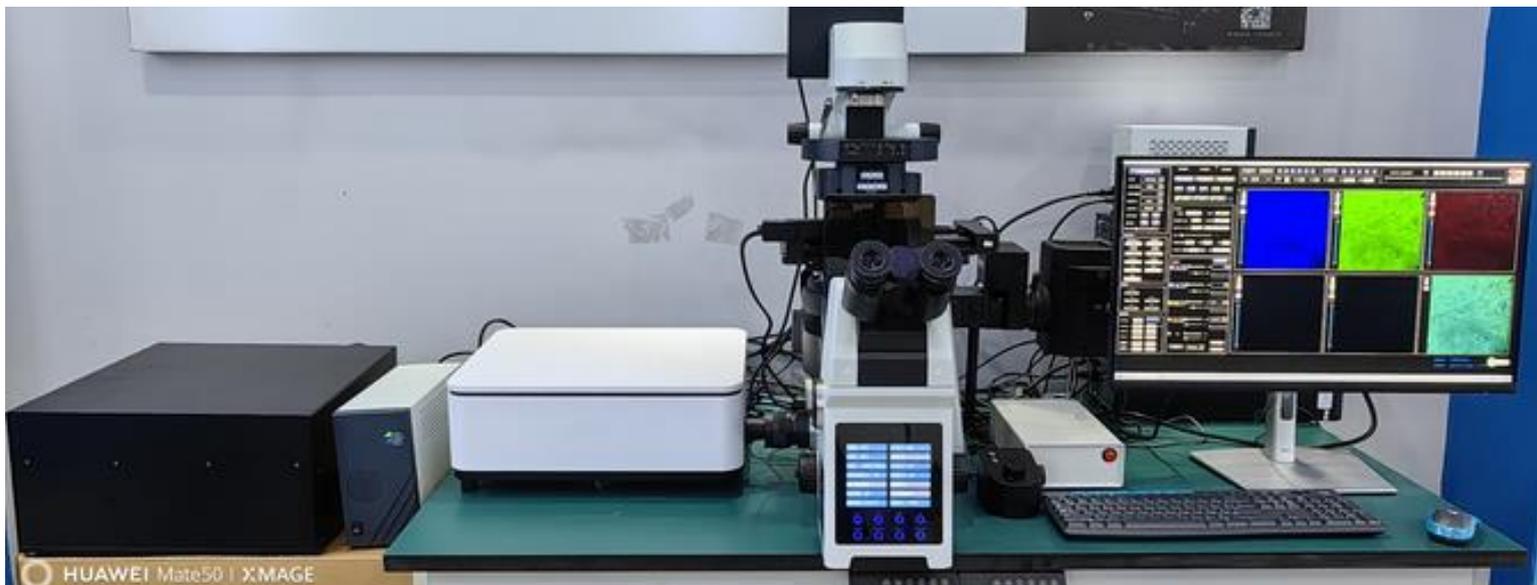
Zebrafish 20X Z- Stack



Organoid 3D reconstruction

A64.0960 Laser Confocal Scanning Microscope, Full Auto Motorized

| Item | Specification | Qty | |
|--|--|--------------|---------------|
| A64.0960 | Laser Confocal Scanning Microscope, Full Auto Motorized, Standard Outfit | | |
| Main Body | Laboratory Level Inverted Microscope, Including: --Viewing Head, Main Body, --LED Transmit Illumination System, --L Type Fluorescent Reflect Illumination System, --Motorized Fluorescent Disc --Motorized 7 Holes Universal Turret Disc Condenser For BF, DF, FL, DIC. --Motorized Controller, --Power Cord, Data Cables, --Fluorescent Oil | ● | |
| View Head | 20-45° Inclined, Gemel Binocular, Interpupillary 50~76mm | ● | |
| Eyepiece | PL10X/22mm, Diopter Adjustable | ● | |
| Nosepiece | Motorized 6 Holes Nosepiece | ● | |
| Motorized Stage | Motorized Mechanical 3 Layers Working Stage, --Size 350mm(X) x 200mm(Y), Moving Range 114mm(X) x 75mm(Y), --Absolute Positioning Accuracy <2um/10mm --Unidirectional Repeat Positioning Accuracy <1um, --Bidirectional Repeat Positioning Accuracy <2.5um, --Maximum Speed 50mm/s, --Including Motorized Controller, Slide Holder T-SGH1 | ● | A54.0964 |
| | Ø36 Petri Dish Holder | ● | A54.0964-36 |
| | 96 Holes Dish Holder | ○ | A54.0964-96 |
| | Terasaki Holder | ○ | A54.0964-T |
| Infinity Plan Achromatic Objective: | Infinity Plan APO 4X/0.16 WD=12.8mm | ○ | A5F.0962 |
| | Infinity Plan Super-APO 10X/0.4 WD=3.1mm | ● | A5F.0963 |
| | Infinity Plan Super-APO 20X/0.8 WD=0.6mm | ● | A5F.0963 |
| | Infinity Plan Super-APO 40X/0.95 WD=0.18mm | ● | A5F.0963 |
| | Infinity Plan Super-APO 60X/1.42 WD=0.17mm, Oil | ● | A5F.0963 |
| Infinity Plan Super-APO 100X/1.45 WD=0.14mm, Oil | ● | A5F.0963 | |
| Condenser: | Motorized, 7 Holes, N.A.>0.55, W.D.>27mm, 3 Holes For 30mm PH, 4 Holes For 38mm DIC, With Motorized Diaphragm, With Polarizer | ● | |
| Fluorescent | 100W Mercury Fluorescent Illuminator, With Power Supply Box, With 100W Mercury Lamp (OSRAM) | ● | A5F.0960-WER |
| | 5 Holes Motorized Filter Disc, With BF, Stopper, ND6/ND25/ND50 Filters, Including Cables | ● | |
| | 10W LED Fluorescent Illuminator, With 4 Channels: 365/460/525/625nm, Excite Controller Time <500ms, Brightness Separately Adjustable, Life Time >20000 Hours, Support SDK Control | ○ | A5F.0960-LED4 |
| | Extended Parts | ○ | A5F.0960-EX |
| | Fluorescent Filter B1, EX: AT480/30X, BS: AT505DC, EM:AT535/40M | ● | A5F.0960-B1 |
| | Fluorescent Filter G1, EX: AT560/40X, BS: AT600DC, EM:AT635/60M | ● | A5F.0960-G1 |
| Fluorescent Filter UV1, EX: AT375/28X, BS: AT415DC, EM:AT460/50M | ● | A5F.0960-UV1 | |
| Fluorescent Filter R1, EX: AT620/50X, BS: AT655DC, EM:AT690/50M | ○ | A5F.0960-R1 | |
| DIC | DIC Imaging Kit For 10X, 20X, 40X, 60X, Including 1 DIC Detector, With 10-60X Differential Interference Imaging Function, Can Realize DIC-fluorescence Imaging And Overlay Analysis, Including DIC Insert Board, Analyzer Group, DIC Ring Plate | ● | |
| Laser Confocal | Laser Confocal XY Scan & Detector, 1 GaAsP | ● | AF.0965-GaAsP |
| | Laser Confocal XY Scan & Detector, 1 PMT | ○ | AF.0965-PMT |
| | Semiconductor/Solid Laser Source With 4 Channels, Wavelength 405nm, 488nm, 561nm, 640nm, Output Power >50mW | ● | AF.0965-L1 |
| | Advanced Version Semiconductor/Solid Laser Source With 4 Channels, Wavelength 405nm, 488nm, 561nm, 640nm, Output Power >50mW | ○ | AF.0965-L2 |
| Computer | HP i7-14700F RTX4060T1 Graphic Card, 32G Memory, 1TB HDD, Curved Monitor Dell S3423DWC USB-C | ● | |
| Software | According To Different Imaging Modes, Multi-channel Time-division And Simultaneous Image Acquisition Can Be Achieved, Supporting Multiple Automatic Acquisition Processes Such as XY, XYZ, XYT, XYZT, etc., And Saving The Shooting Environment. Also Supports Large Image Stitching, 3D Reconstruction And Display, Cell Counting. With Dongle | ● | |
| Cable | Control Cable, USB-CAN Adapter | ● | |
| Platform | Professional Optical Shock Resistant Platform, Tabletop Size > 1000x800mm, Made of High Magnetic Conductivity Stainless Steel 1Cr17 Material | ○ | A54.0968 |
| Photo Port | Left Side Photo Port, Light Split 100:0 /0:100, Field of View 16mm, With Built-in 1x C-Mount | ● | A55.0960 |
| | Right Side Photo Port, Light Split 100:0 /0:100, Field of View 16mm, With Built-in 1x C-Mount | ○ | A55.0960-R |
| Camera | 5.0M Color 2/3" CMOS SONY IMX264, 35fps, USB3.0 | ● | A59.0960-5.0M |
| | 20M Color 1.1" CMOS SONY IMX541, 17.5fps, USB3.0 | ○ | A59.0960-20MC |
| | 20M Monocolor 1.1" CMOS SONY IMX541, 17.5fps, USB3.0 | ○ | A59.0960-20MM |
| Adapter | 0.65x C-Mount, Focus Adjustable | ○ | A55.0930-65 |
| | 1.0x C-Mount, Focus Adjustable | ○ | A55.0930-10 |
| Package | Strong Master Carton | ● | |



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
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