

www.simtrum.com



Company Introduction

We focus on microscopy and spectroscopy.



SIMTRUM.Pte.Ltd
Singapore - A Global E-commerce Platform for Microscopy and Spectroscopy



SIMSCOP (GZ) .Ltd

Guangzhou, China - R&D and Production
Center for High-end Microscopes

COMPANY PROFILE

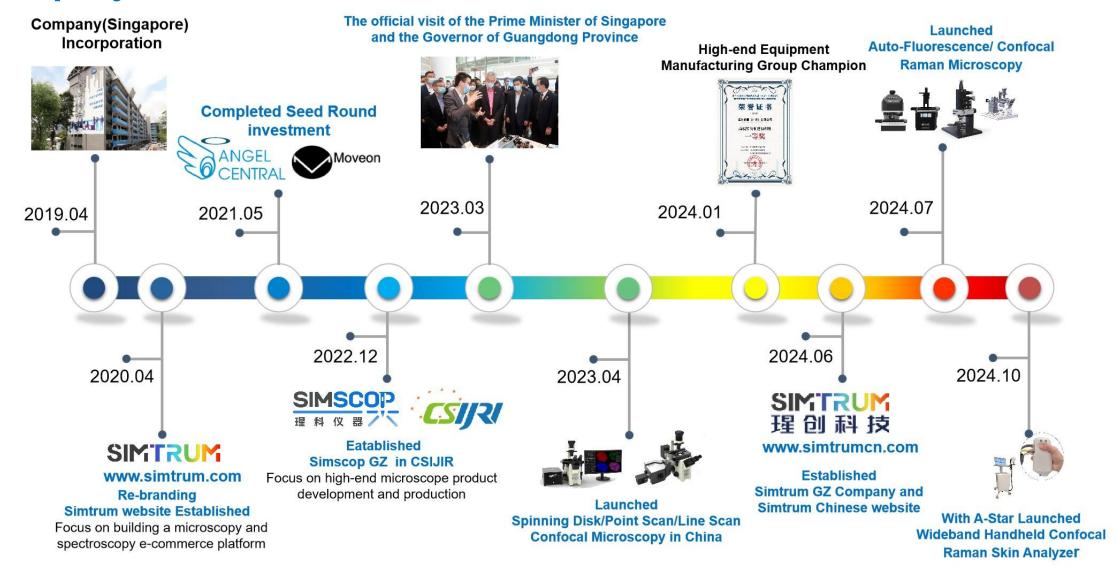
Vision

To be a leading photonics technology company that truly understands and adds value to our customers.

Mission

Driven by innovation, we deliver exceptional services and precise products to global photonics users, empowering customer success and advancing industry transformation.

company-Milestone



Core team



(CEO) John Yuan

Northumbria University-MBA

+16 years of experience in
Photonics Industry



NUS Singapore Ph.D
+10 yearsof experience in high-end

microscope development



(CMO) Tony Han
Xi'an Jiaotong University
+5 years experience in e-commerce



Teck Lee Chee
CEO of Moveon Technology
Seed Investor
Corporate Advisor



Prof. Liu Linbo NTU Singapore Collaborator & Advisor



Prof. Chen Nanguang NUS Singapore

Collaborator & Advisor



Prof. Bi Renzhe
A-Star Singapore
Collaborator & Advisor

Laboratories and awards



R&D Laboratory

The joint R&D laboratory for microscopes, co-established with the China-Singapore Research Institute, is equipped with independent R&D and production capabilities, dedicated to innovating and making breakthroughs in cutting-edge optical technologies.



Awards and IP Patents

Participated in the finals of the Guangzhou Technology Innovation and Entrepreneurship Competition, won the championship in the startup group, and obtained multiple technical patents and certificates!

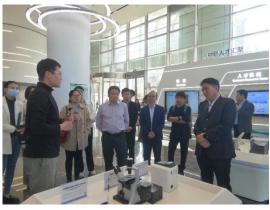
Key Leadership and Business Delegations



Prime Minister Lee Hsien Loong of Singapore visited the company on March 29, 2023.



Former Guangzhou Municipal Party Committee Secretary visited



President of Chinese Academy of Social Sciences visited



The governor of Guangdong Province visited and inspected the company's relevant products on April 19, 2023.

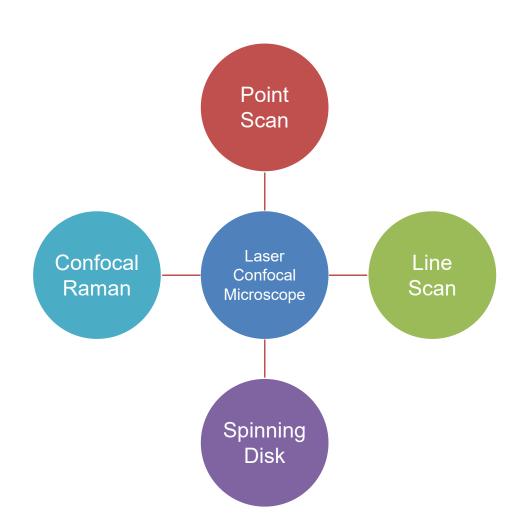


Director Yan of the Ministry of Science and Technology of China visited



Former Singapore Deputy Prime Minister Wong Kan Seng visited

Summary of Technical Capabilities (Microscopy + Spectroscopy)





Laser Confocal Microscopy







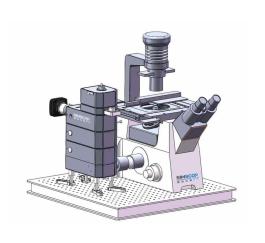


Parameter	Point Scan Confocal	Line Scan Confocal	SPINDISK Basic	SPINDISK+SIM
Frame Rate	4fps-12fps@512x512	50fps@1024x1024	100fps@2048x2048	13fps@1024x1024
Resolution	~230 nm	150-200nm	~230 nm	~100 nm
Depth	<100μm	<600μm	<200μm	<200μm
Detector	SIPM/PMT	sCMOS	sCMOS	Duel sCMOS
Application	Biomedicine:Three-dimensional fluorescence microscopy,observation of cells and tissues,multi-channel fluorescence detection	Rapid 3D imaging of thick tissues, 3D image detection oftissue pathology, 3D tissue morphology research of small animal tissue organs such as brain neurons, liver, kidney, etc	Dynamic fluorescence imaging of living cells/tissues,microscopic observation of small animals such as zebra fish and nematodes	Dynamic fluorescence super- resolution imaging of living cells, 3D imaging of tissues, organoids, spheroids and small organisms

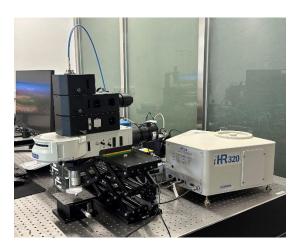
WideField or Confocal Raman, PL System



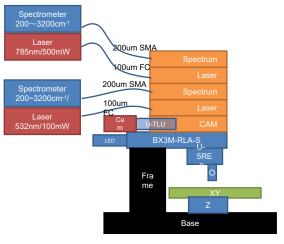
Upright Raman System



Inverted Raman System



PL with Horiba



Optical Path of Raman



Portable Raman (For Skin Care)



Tabletop Raman



Fiber Output Raman



Portable Raman



Handheld Raman

Motorized Upright & Inverted Microscope









Point Scan Confocal Module





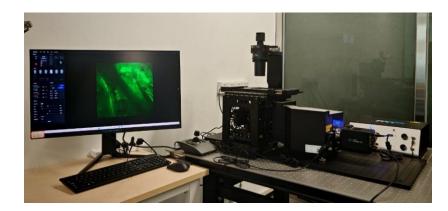
Auto Multi-channel fluorescence, Raman, PL



Auto Line/Point scanning confocal

Upright Motorized Microscope

Inverted Motorized Microscope

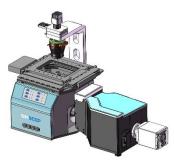




Spindisk Confocal Module

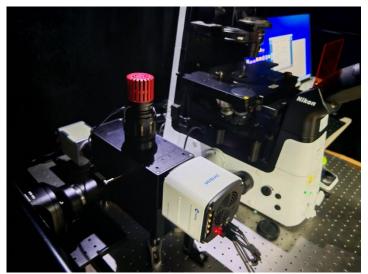


SIM Module



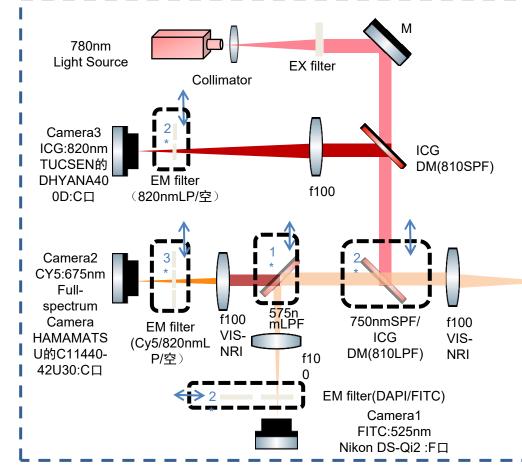
Auto Spin Disk Confocal

Three-channel High-speed Fluorescence Microscope

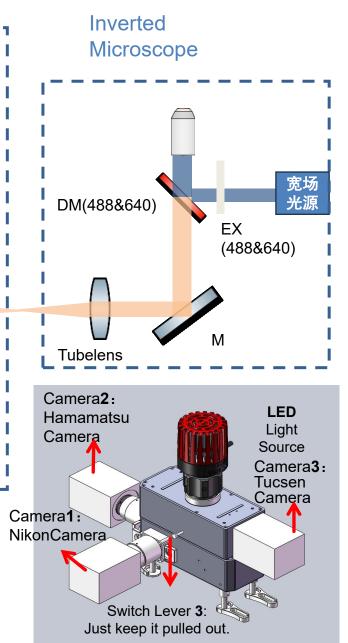


Multi-channel Fluorescence Module
1. Switching optical path
2. Dual-channel optical path switching with replaceable filters
3. Three-channel optical path switching with replaceable filters





Optical Path Diagram of Multichannel Fluorescence Module



Products developed in collaboration with Singaporean research institutions











Single Point LDV

Multi-Point LDV

LDV Microscope

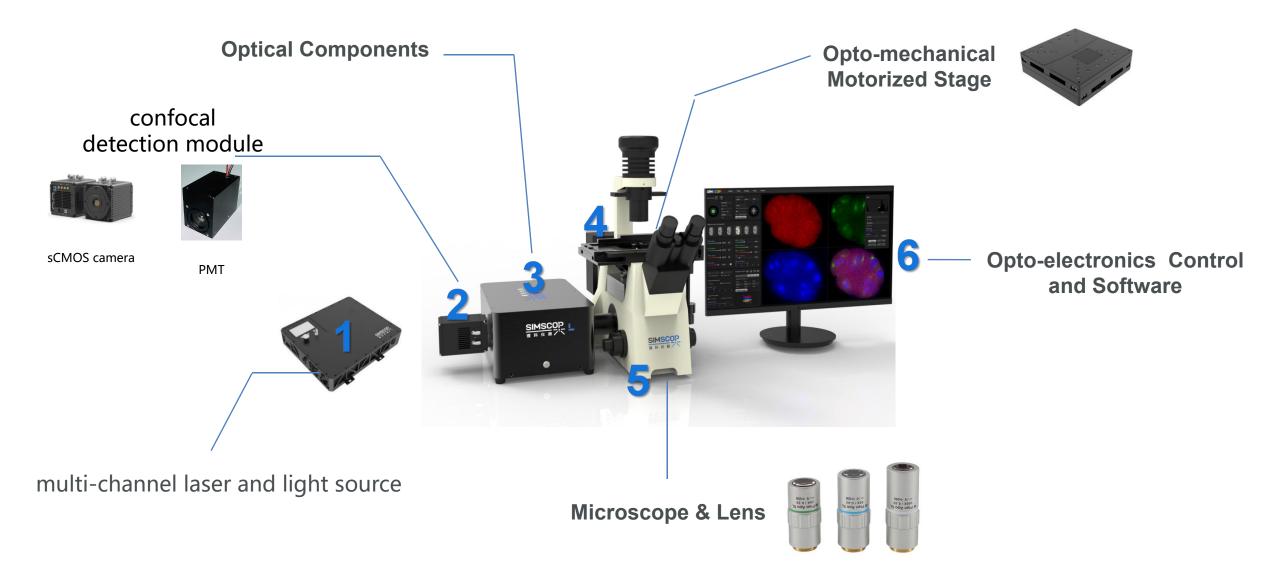
Multispectral/Hyperspectral microscopy

Maskless Lithography UV Direct Laser Writer



OCT Optical Coherence Tomography

Our capabilities regarding the core components related to microscopy and spectroscopy



Laser/Light source











CW Laser Diode Module 405 to 640nm

multi-channel multimode laser
405 to 640nm

narrow-linewidth semiconductor laser 532,780,1064nm

single& multiwavelength LED 360 to 780nm

Microscope Light & Lamp 185-5500nm

Detector /Spectrometer



SIPM (300-950nm)



SPD (200-1700nm)



PMT (160-900nm)



PD (200nm-12um)



spectrometer 200-1700nm



multi-channel spectrometer 200-1700nm



Raman

spectrometer

Optomechanics Series



Optical Heating & Cryo Stage



Electrical Probe Temperature Stage



Adjustable Electrical Probe Station



In-situ Tensile Heating & Cryo Stage



XY Microscope Piezo Stages



Motorized Filter wheel

Opto-Electronic



AOM



Electro-optic Intensity Modulator



AOTF



Tunable Multi-channel Phase-coherent Radio Frequency Signal Source

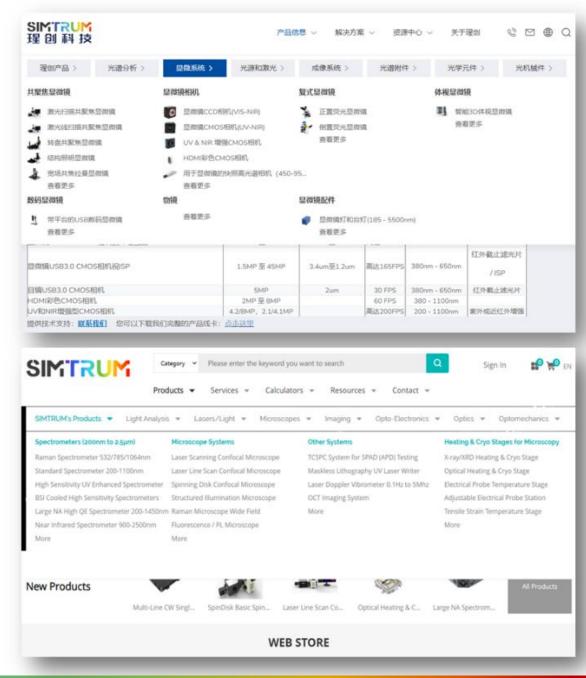
Radio frequency generator (synchronizable) 12 slots with 6 in use,DDS core, 1GSps



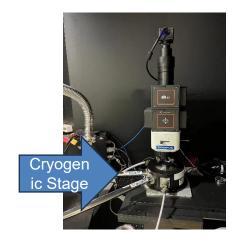
Time Tagger

E-commerce platform specializing in microscopy and spectroscopy English and Chinese e-commerce platforms

- English and Chinese e-commerce platforms (www.simtrum.com)
- The platform covers 7 product series with approximately 4,000 products.
 - microscope
 - spectral analysis
 - Lasers and light sources
 - imaging
 - optoelectronics
 - Optomechanics
 - Optical Devices" 或 "Optical Components
- The application fields of the platform cover (Optical Application Product Line Card)
 - Biomedical and Life Sciences
 - 2D Material and Semiconductor
 - Quantum
 - Terahertz

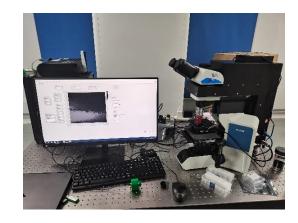


Solution Capability



SIMSCOP

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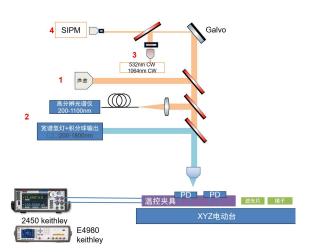


Customized Cryogenic Raman

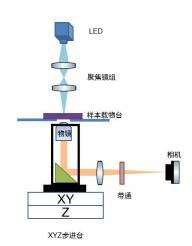
Single-photon Confocal Microscope

Infrared Single-Point Confocal System

TCSPC system for SPAD (APD) testing



PC USB3 Focusing Lens
Diffraction Grating
Collimating Lens
SPAD
320
Fiber Patch
320
Focusing Lens
Emission Filter
Dichroic Beamsplitter
Focusing Lens
Sample



Customized Cryogenic Confocal Raman

基础操作

集成低温控制,

二向色镜

样品杆

低温物镜

XY压电台 XYZ平移台

Industrial PD 4-in-1 Microscopy System

Line array SPAD time-gated Raman

Bacterial Automated Fluorescence Microscope

Our Customers

Scientific research clients















































































Industrial clients



































































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