

High-resolution microscopy module



Overview

This review highlights the most recent developments in commercially available super-resolution microscopes, focusing on the most widely used techniques: confocal laser scanning systems, structured illumination microscopy (SIM), stimulated emission depletion (STED). This review highlights the most recent developments in commercially available super-resolution microscopes, focusing on the most widely used techniques: confocal laser scanning systems, structured illumination microscopy (SIM), stimulated emission depletion (STED). Bruker's xView™ Module for Ultima 2Pplus multiphoton microscopes delivers a breakthrough in large-scale, high-resolution imaging: this exchangeable lens set extends the field of view (FOV) by more than 2.5x the standard area, enabling researchers to visualize neural activity without sacrificing. Super-resolution microscopes provide unprecedented resolution and insights into the molecular landscape. For any laboratory, across a wide scale of specimen types. This is the reason behind the. The SCF houses several super-resolution (SR) systems.



Article Content

High-Resolution Digital Microscope Camera Market Size ...

High-resolution Digital Microscope Camera Market size was valued at USD 1.2 Billion in 2024 and is poised to grow from USD 1.

PhD-student

The High Resolution and Automated Microscopy department is part of the Fraunhofer Translational Neuroinflammation and Automated Microscopy TNM, the Göttingen site of the Fraunhofer Institute

Advancing Super-Resolution Microscopy: Recent Innovations in

Abstract Super-resolution microscopy techniques have accelerated scientific progress, enabling researchers to explore cellular structures and dynamics with unprecedented detail. This

HUSKYLENS GC2093 Microscope Imaging Module | Eyepieces, Lenses

The DFRobot HUSKYLENS GC2093 microscope imaging module is a high-resolution imaging solution designed for close-up inspection, microscopy, and AI vision applications. Built around a 2MP

CrestOptics'' DeepSIM super resolution confocal

Expanding CrestOptics'' established portfolio of flexible, modular high quality imaging products, the DeepSIM module can be used with CrestOptics'' X

Open-source microscope add-on for structured illumination

Researchers developed an open-hardware structured illumination microscopy add-on. This affordable upgrade provides super-resolution capabilities for normal optical microscopes.

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CrestOptics'' DeepSIM super resolution confocal

CrestOptics, a manufacturer of high-end microscopy solutions and advanced systems for fluorescence microscopy and diagnostic applications, has been

CrestOptics'' DeepSIM Super Resolution Confocal Microscope Module

Expanding CrestOptics'' established portfolio of flexible, modular high quality imaging products, the DeepSIM module can be used with CrestOptics'' X-light V3 spinning disk, or as a stand

High-resolution Optical and Electro-optical Microscopy for PV-modules ...

Especially for samples like solar modules or large specimens high-resolution microscopy measurements are not used and therefore observable details are strongly limited by the optical

High resolution optics module | Openflexure microscope

High resolution optics module To get lab quality images from your microscope, you need to use more sophisticated optics than a webcam lens. This optics module

Super-resolution Microscopes – Single Cell Facility

The SCF houses several super-resolution (SR) systems. Pushing technology to its limit, these high-end microscopes provide best-in-class resolution beyond the

Fully automated multicolour structured illumination

In biological imaging, there is a demand for cost-effective, high-resolution techniques to study dynamic intracellular processes. Structured illumination microscopy

Confocal Laser Scanning Microscopes | Evident | Olympus

Confocal laser scanning microscopy is a versatile method applied across life science, materials science, and industrial inspection to obtain high-resolution, high

CrestOptics' DeepSIM Super Resolution Confocal

Launched in October 2021 1, DeepSIM is a super resolution module developed to enhance the imaging capabilities of high end microscope systems.

xView Module

Powered by the Ultima xCore FPGA electronics, the xView module enables up to kHz frame rates for regional acquisitions or up to 8K high resolution. Patented

CrestOptics' DeepSIM super resolution confocal

Innovation awards announced at 2022 Microscopy & Microanalysis Meeting, Portland, Oregon, 31st July – 4th August, 2022 Rome, IT, 01 August,

CrestOptics' DeepSIM super resolution confocal microscope module

CrestOptics S.p.A., a manufacturer of high-end microscopy solutions and advanced systems for fluorescence microscopy and diagnostic applications, has been recognised as

Real-time, high-throughput super-resolution microscopy via panoramic ...

Yoon et al present super-resolution panoramic integration, a microscopy method that instantly captures super-resolution images with high throughput, enabling detailed biological study of

CrestOptics' DeepSIM Super Resolution Confocal

CrestOptics S.p.A. has been recognised as developing one of the ten best microscopy innovations in the 2022 Microscopy Today Innovation Awards,

Fully automated multicolour structured illumination

Combining low-cost components and real-time super-resolution imaging via open-source software, the system improves resolution by 1.55-fold

Compact Microscope Module for High

Resolution and illumination conditions of the microscope were characterized, and its performance was compared with a high-end fluorescence

Microscopy | Core Facility Hohenheim

Powerful workstations with state-of-the-art analysis software (ZEN Module, arivis Vision4D) are available to users. High-resolution scanning electron microscope

ZEISS Airyscan | Super-resolution imaging and

The ability to combine fast imaging with super-resolution makes Airyscan a versatile tool to observe live dynamics at subcellular resolution and efficiently image large

Super-Resolution Microscopes

Super-resolution microscopes provide unprecedented resolution and insights into the molecular landscape. Nikon offers a range of super-resolution systems for high

Contact Us

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