Providing Unprecedented Field of View

Go Optical

STOmics Microscope

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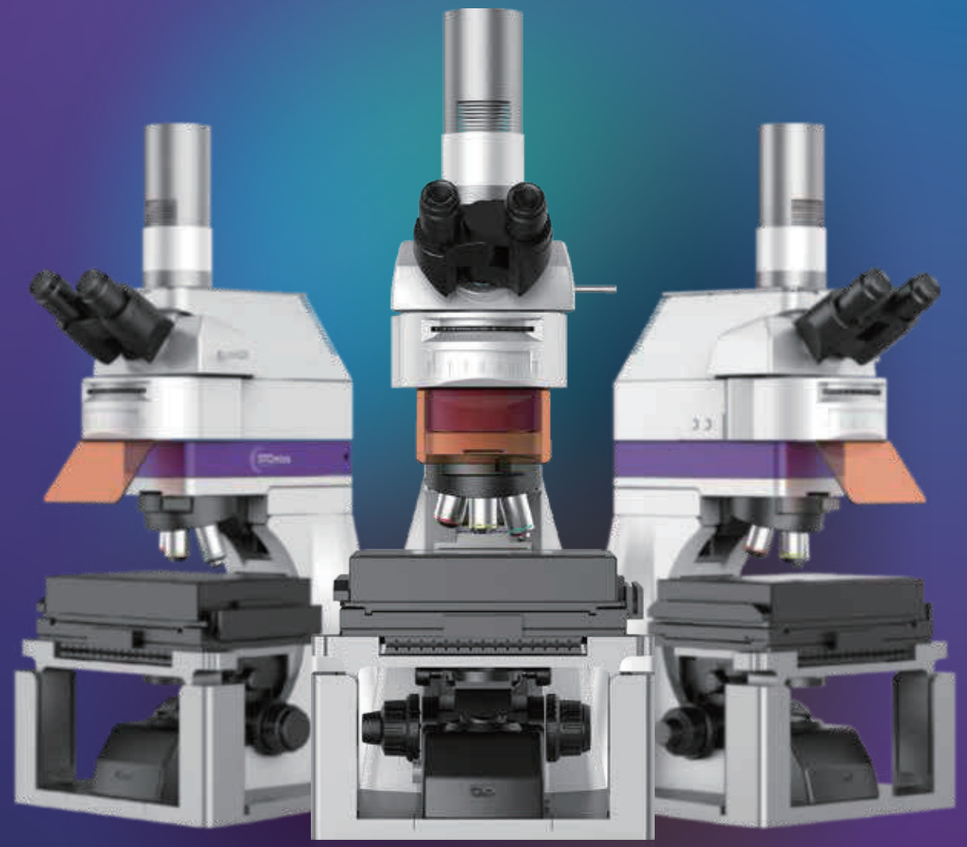

High Resolution

Large Travel Range

Fast Imaging

For research use only. Not for use in diagnostic procedures.

Go Optical

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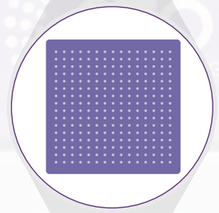
Go Optical is the STOmics microscope designed for stereo-seq. It can fully meet the imaging needs in various experimental processes of stereo-seq. Inte grating high-resolution imaging with the advanced algorithms of stereo-seq technology achieves a precise position of gene expression matrices in the tissue section and satisfies the multi-scenario application needs.

Highlights

- **Fluorescence Channels**
  (DAPI, FITC, TRITC, CY5)
- **Maximum Travel Range**
  (100 mm×70 mm)
- **Main Application**
  (Panoramic scanning imaging of biological tissue sections)
- **Objective Lens**
  (4×, 10×, 20×, 40×)
- **Illumination Methods**
  (Epi-illumination and trans-illumination)
- **Observation Methods**
  (Epi-fluorescence, Epi-bright field &Transmitted bright field)

High Resolution

12-megapixel super-resolution imaging, accurately identifying track lines and tissue details, enabling segmentation at the tissue and even single-cell level.



Large Travel Range

The ultra-large scanning range of STOmics Microscope is 100 mm×70 mm, it can easily handle large-size chip scanning tasks.

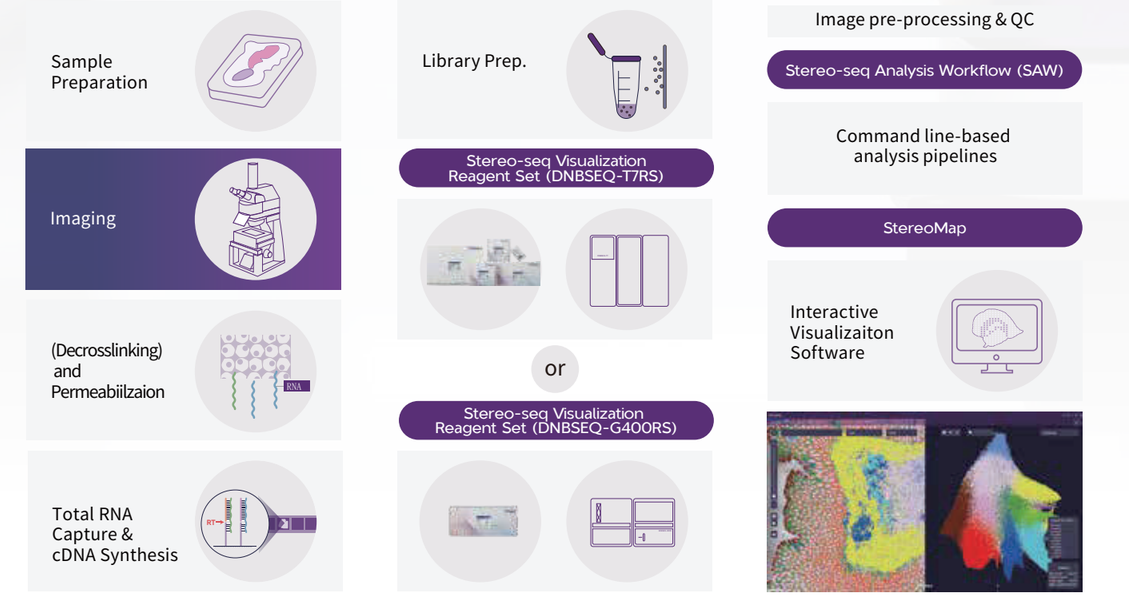
Fast Imaging

A specially designed auto-focus detection function that only requires one manual focus to complete focusing and scanning of the whole chip.

Tested Data

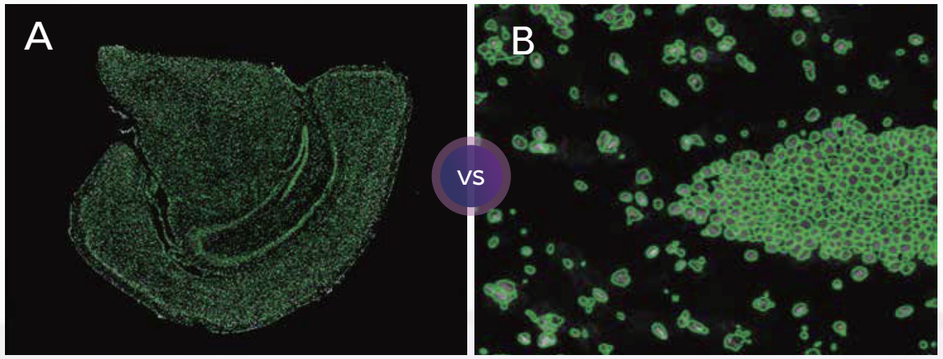
The Ideal Partner for Stero-seq Imaging

The images captured by the STOmics Microscope Go Optical can be analyzed by algorithms and used to complete tissue segmentation. It also has the advantages of a large scanning range, fast scanning speed, high resolution, clear imaging, and low stitching error, meeting the user's multi-scenario application needs.



High Resolution Image

High resolution and low stitching images captured by Go Optical, combinate with Cellbin algorithm analysis, achieve precise segmentation at single-cell level.



Large Travel Range

A large travel range of 100 mm x 70mm, which meet the scanning needs of most STOmics chips.

Fast Image

Auto-focus mode, allowing for scanning of a 10mm x 10mm chip under 10x lens in just ⩽ 70s

Hardware Parameters

Indicators	Parameters
Objective Lens	4×,10×,20×,40× (optional) universal motorized objective lens converter, support expansion
Obervation Method	Epi-fluorescence, Epi-bright field, Transmitted bright field
Motorized XY Stage	Maximum travel range of 100 mm*70 mm
Motorized Z Stage	Maximum travel range of 1.5 mm
Motorized Fluorescence Unit	Six-position motorized fluorescence filter wheel, supporting maunal/auto switching
Illumination	Epi-illumination light source, transmitted light source
Fluorescence Channel	Standard configuration: DAPI, FITC, TRITC, CY5, and supports other dye filter blocks
Camera Resolution	High image resolution: 3008 pixels (height) and 4112 pixels (width)
Auto-focusing	Auto focus mode and map navigation mode
Splicing Accuracy	≤5 μm(10×)
Operation Mode	Manual operation by human eye observation; fully automatic scanning and imaging
Scanning Time	Under a 10X objective lens scanning a 10×10 mm area, scanning time is ≤70 seconds
Microscope Size	400 mm(L) * 334 mm((W) * 815 mm(H)
Microscope Weight	Net weight 35 kg
Voltage	200~240 V,~50/60 Hz
Rated Power Consumption	300 VA

Ordering Information

Product Name	Model	Cat. No	Note
STOmics Microscope	Go Optical	900-000586-00	1EA, RUO-CE
		900-001019-00	1EA, RUO-NRTL

Product Name	Cat. No	Note
40×-objective-lens （Optional）	060-000217-00	1 EA