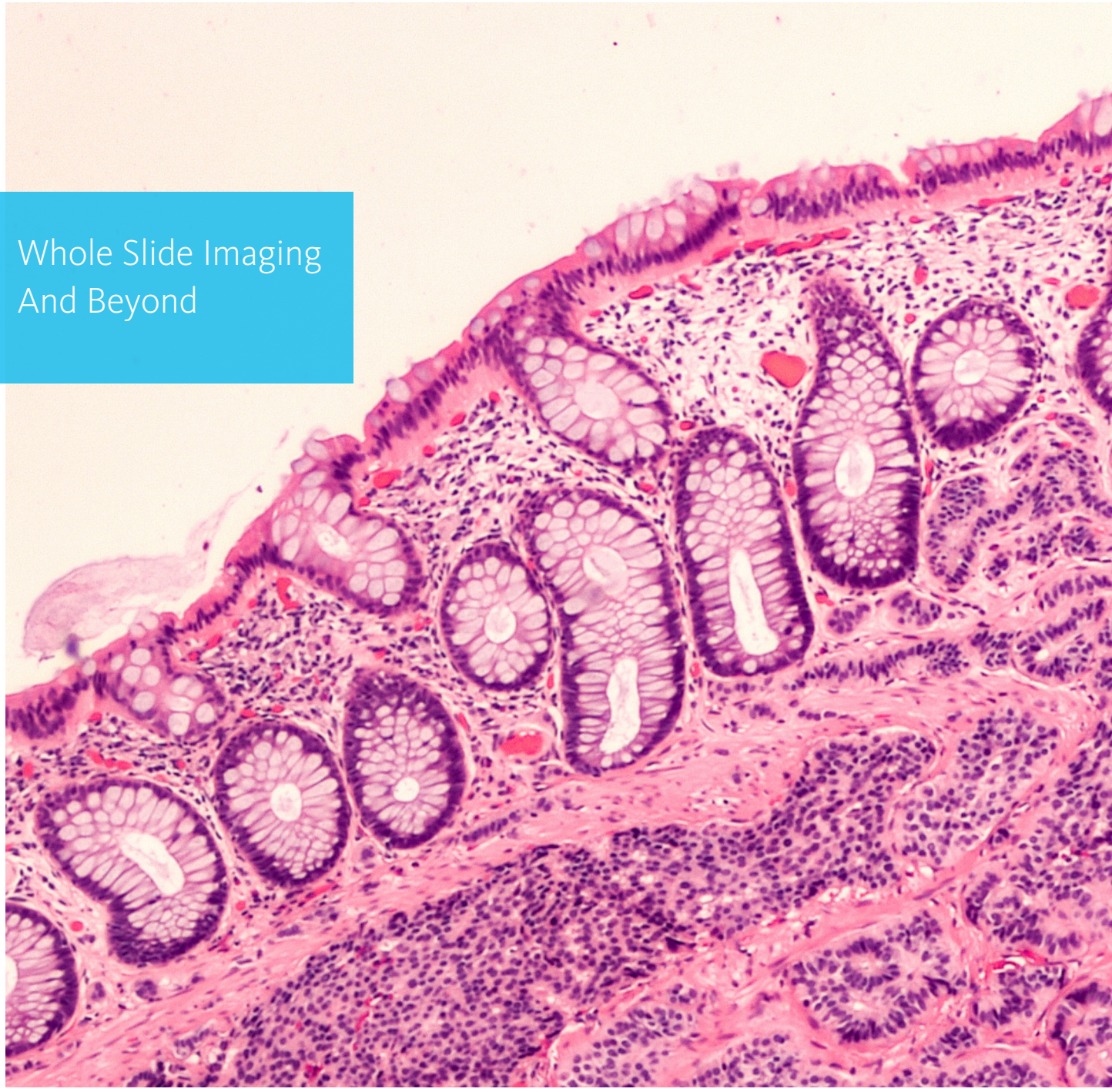
CellScan: The most flexible whole slide scanner

Digitize your Workflow



Whole Slide Imaging
And Beyond

www.molecular-machines.com

Flexibility Redefined

The MMI CellScan is compatible with a wide range of research microscopes, offering you the flexibility to choose the microscopethat best suits your needs. Whether you're working with brightfield, multi-fluorescence, confocal, phase contrast, or any other imagingmode, CellScan captures your samples with unparalleled details.

CellScan is a gateway to limitless digital imaging possibilities

CellScan supports various sample formats. From conventional glassslides to petri dishes with living cells, and membrane slides designedfor laser microdissection. This unmatched flexibility ensures thatCellScan meets the diverse needs of various applications, like indigital pathology, cell biology and oncology.



The MMI CellScan on the Nikon Ti2-Eclipse inverted microscope. The system is compatible with many microscope brands and models.

Most Flexible Whole Slide Scanner

The MMI CellScan is compatible with all objectives, numerous research microscopes and all possible imaging modes.

Operate from any Location

Unlock the potential of virtual microscopy and view your whole slide images remotely with unlimited licenses of the MMI imaging software.

High Performance

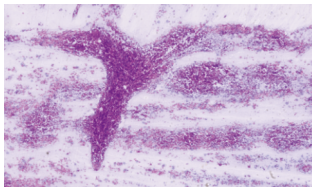
Scan a 15 mm x 15 mm section in less than 60 seconds and a full 75 mm x 25 mm slide in less than 7 minutes (20x objective).

Precision in all 5 Dimensions

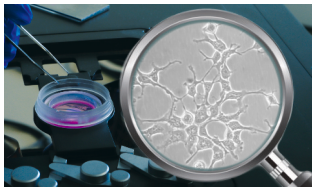
Take control of your research with CellScan's ability to scan full-resolution digital slides in 5D. Navigate seamlessly in the **X-Y axis,** explore the depths of your samples in **Z-stack** mode, capture dynamic changes over time with **time-lapse** imaging, and unravel the complexity of **multi-fluorescence** imaging. The MMI whole slide scanner supports you in conducting experiments exactly as you envision.



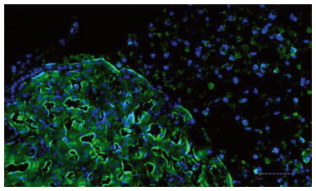
X-Y axis: Villi of small intenstine - 100x objective



Z-stack: Vaginal swab recorded with different Z-stacks

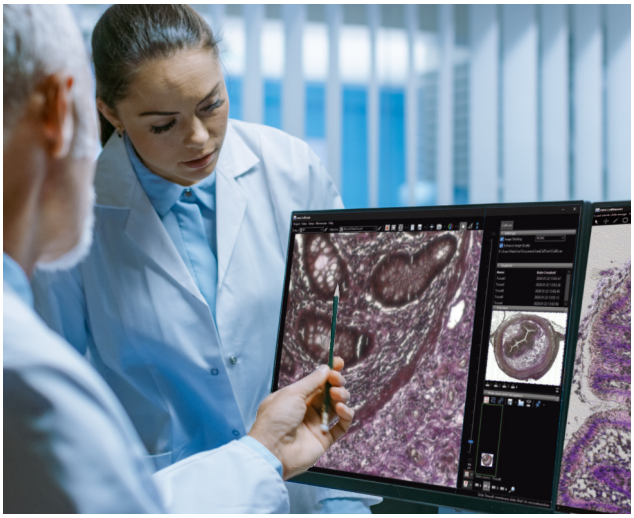


Time-lapse: HeLa cells monitored over several hours



Multi-fluorescence: Mouse kindey stainind with DAPI (nuclei) and CF-594 (laminin)

Imaging Software at the Forefront of Innovation



Empower your whole slide imaging experience with precision and ease. The MMI analyzing software comes with unlimited licenses, facilitating remote and interactive work within larger teams. The whole slide images are instantly loaded as BigTIFF.

Capture and annotate

Mark and annotate cells and regions of interest effortlessly with the added capability to export and reload marked areas. Insert scale bars, measure distances, and utilize this functionality for laser microdissection with the MMI CellCut.

Stitching perfection for best image harmony

Sophisticated stitching function, ensuring a perfect alignment of individual images without any overlap or artefacts along the edges.

Scanning in 5 Dimensions

Scanning of full-resolution digital slides in 5D: XY-Scan, Z-stacks, time-lapse and multi-fluorescence, without compromising quality.

User-friendly Operation

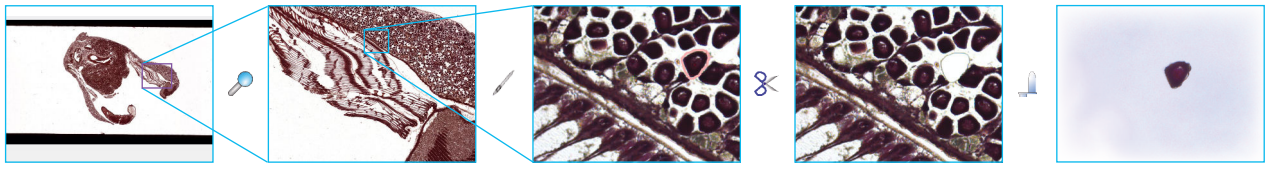
Simply place your slides under the microscope and activate the scanning process.

WSI Meets Laser Microdissection

Benefit from the only available direct transition between scanning and laser microdissection for an efficient workflow.

Whole Slide Imaging meets Laser Microdissection

Researchers from a multitude of fields use microdissection to selectively isolate single cells or tissues. The technique enables downstream analyses such as RNA sequencing. Scientists often discard the larger cut tissue section, losing valuable information from the original slide. However, MMI's CellScan, in combination with the CellCut Laser Microdissection system, allows researchers to image a tissue section and then precisely select cells and dissect the tissue while preserving information about the original uncut tissue and position information about the cut. MMI is the only manufacturer of a combined system for laser microdissection (MMI CellCut) and whole slide imaging (MMI CellScan).



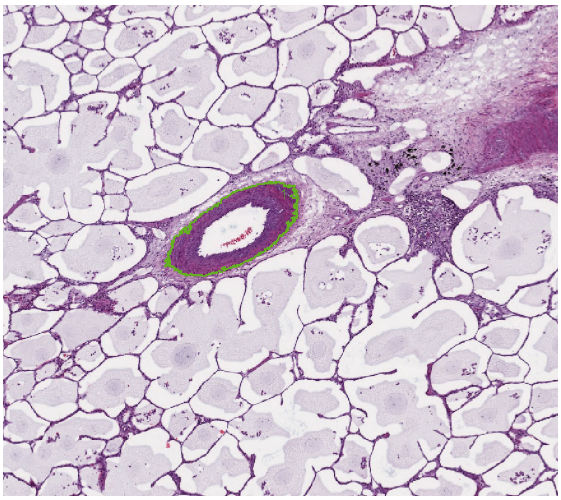
Workflow to combine the MMI CellScan with the CellCut laser microdissection System: 1. Scan your slide 2. Identify the target region 3. Mark target cell 4. Excise the target cell 5. Verify successful isolation

Expandable for Automated Image Recognition

CellScan stands out for its remarkable modularity, ensuring smooth compatibility and upgradability across the entire MMI device range. Featuring modules such as **CellCut** for precise laser microdissection, **CellEctor** for isolating cells in suspensions, and **CellDetector** leveraging artificial intelligence for automated cell and tissue identification, CellScan establishes itself as a flexible and adaptive platform to meet the dynamic demands of advancing research.

Automatically identify your cells

Do you need to analyze many slides for one specific cell type, or identify cells with a specific set of markers or parameters? The MMI CellDetector enables you to automatically identify cells or interest within a live image or within scanned whole slide images.



The MMI CellDetector can be trained on individual target areas based on color differences and on structures.

Fast and Easy Workflow



Pre-scan whole slide | *Auto identify tissue* | *Auto-map focus points* | *Scan at high resolution* | *Remote sharing*

Better service starts here



"The MMI CellScan whole slide scanner supports us in our daily work: this tool documents our tissue sections in high resolution and it fully integrates into our laser microdissection workflow. We especially appreciate that we can annotate directly in the image thus saving hands-on time at the instrument."

★★★★★

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Learn more and schedule a free demo at