MICRO VISIONEER

MANUAL WHOLE SLIDE IMAGING

Microvisioneer manualWSI
The easy solution for digital pathology

https://www.microvisioneer.com/manualwsi

Microvisioneer manualWSI is an affordable and high-quality manual scanning software allowing to upgrade existing microscopes to manual whole slide scanners. The exceptionally versatile and innovative solution enables customers in currently 55+ countries worldwide to create virtual whole slide images (WSI) for various applications. The manualWSI system is affordable, easy to use and readily available, and allows smooth image stitching at high quality, similar to that of automated slide scanners. Almost any type of slide can be digitized, no matter how exceptional.

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Microvisioneer offer an innovative software and personalised support package allowing users to convert digital images directly into whole slide images (WSI) of a quality comparable to commercial whole slide scanners.

Jeremy Parry,
Managing Director
DLS Pathology Services

## The manual scanning process

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Upgrade your microscope to a manual slide scanner with a suitable camera and the Microvisioneer manualWSI scan software. Camera mounting and software installation is extremely easy. A simple microscope upgrade – the ticket to virtual microscopy.

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Create whole slide images by manually moving the stage. It has never been easier. Any desired objective can be selected. Scanning is intuitive and smooth. Real-time stitching of the panoramic image is seamless.

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View, analyze, archive or share virtual slides. The virtual slides are compatible with all major
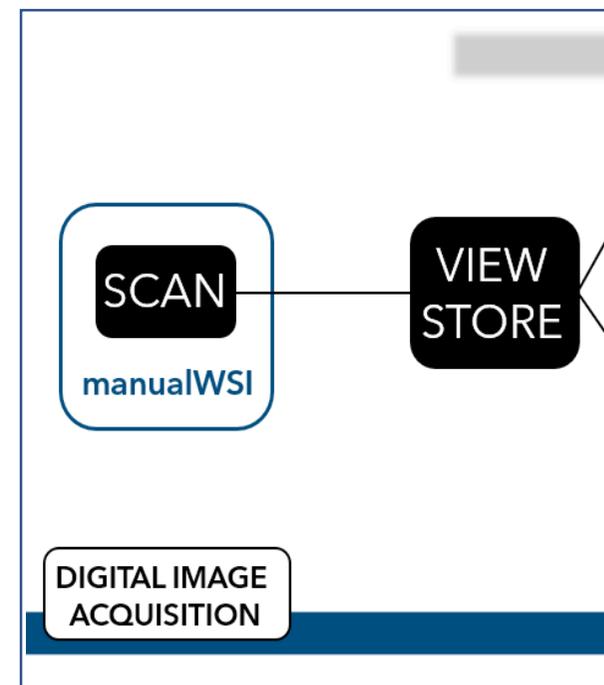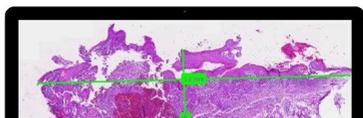
The Microvisioneer manual scanning solution can be readily integrated into any environment. The file formats of the whole slide images are standard and open industry file formats which are compatible with all major exisiting digital pathology tools, such as viewers, image analysis software or cloud platforms. Thus, no major capital investment is necessary and a full and cost-effective telemicroscopy / telepathology workflow can be established.

Time-saving:
Hardware items and software are immediately available.
Manual scanning of small specimens is often faster than automated scanning.
Compensation of potential outage of automated scanners.
Scan right away on your desk.

Affordable:
Upgrading of microscope with the manualWSI software and, if neccessary, inexpensive hardware.
Long-lasting solution without expensive maintenance.
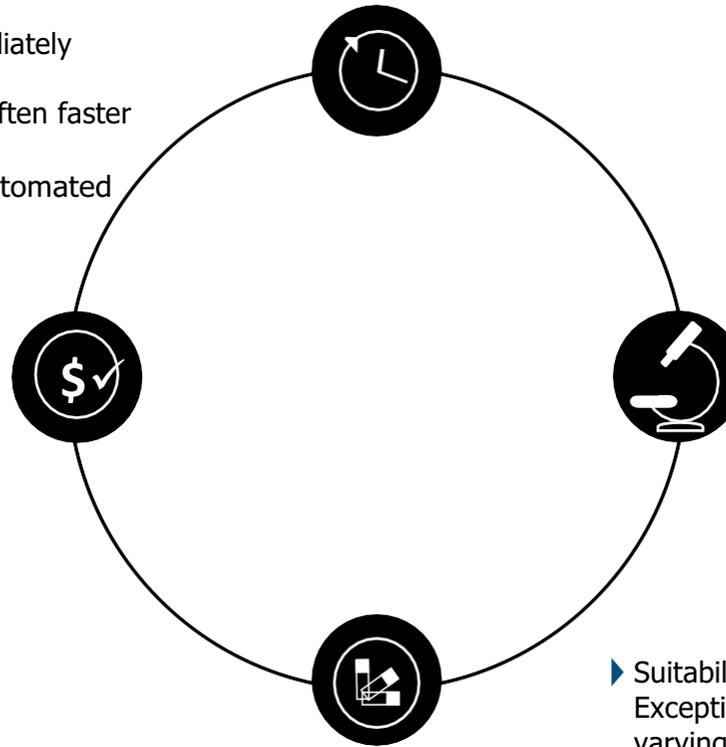
Maintains traditional microsc
Any desired objective can be
Slides can still be assessed th
eyepiece.
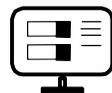
Suitability for exceptional slides:
Exceptionally thick slides or slides with varying focus plane can be easily scanned due to the flexibility of the microscope.

## ManualWSI opens up all the opportunities of digital pathology

Image Analysis
Perform representative and reproducible analyses.
Automate image analysis.

Documentation & Publication
Save your digital slides, annotations and comments.
Preserve the original staining.
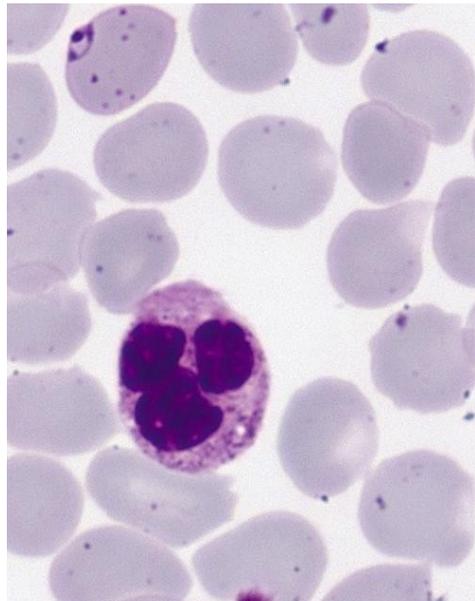Create publication-ready high-quality images.

Education
Scan your own teaching slides and move away from expensive glass slides.
All students see exactly the same virtual slide, remotely and simultaneously.
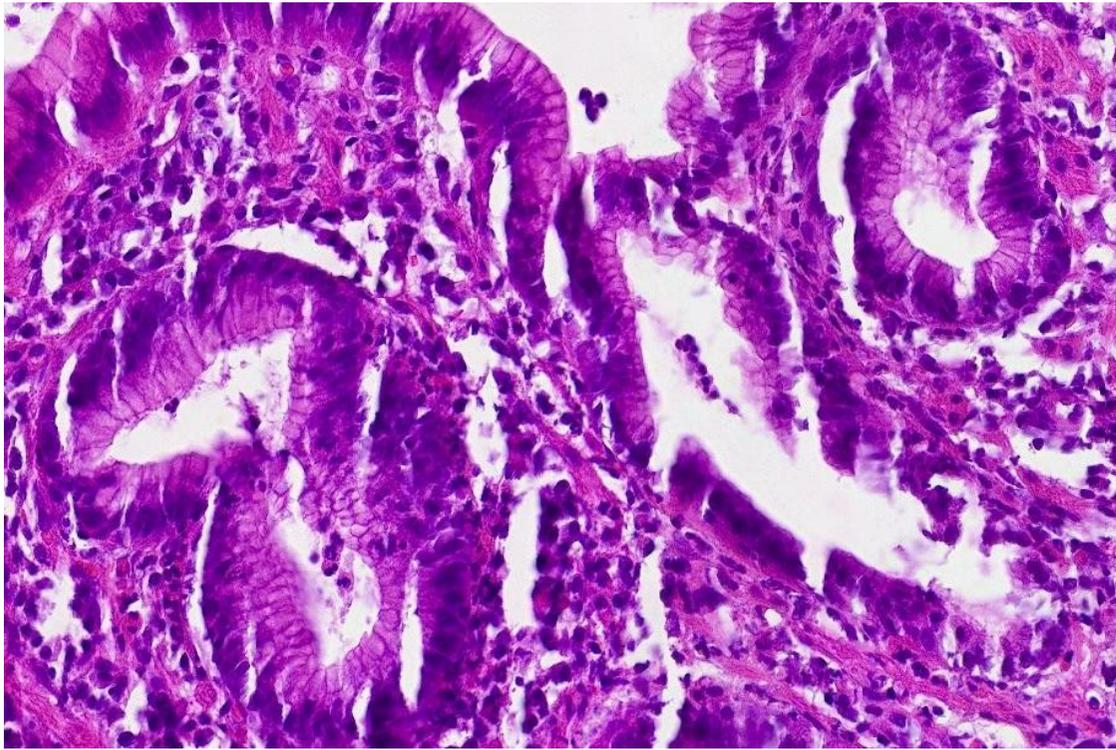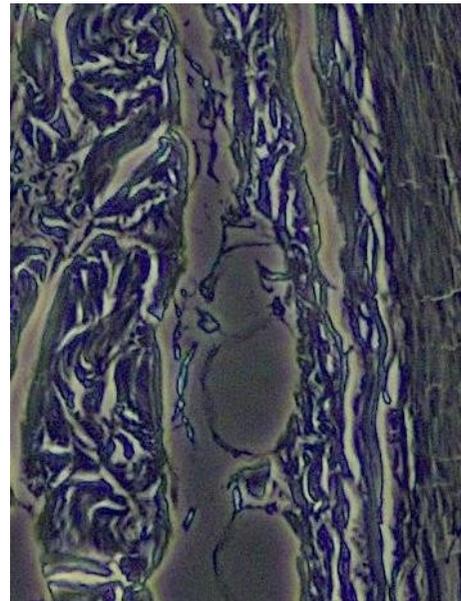
brightfield human intestine, H&E stain
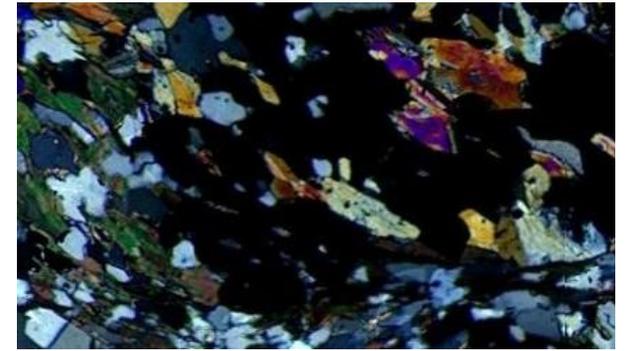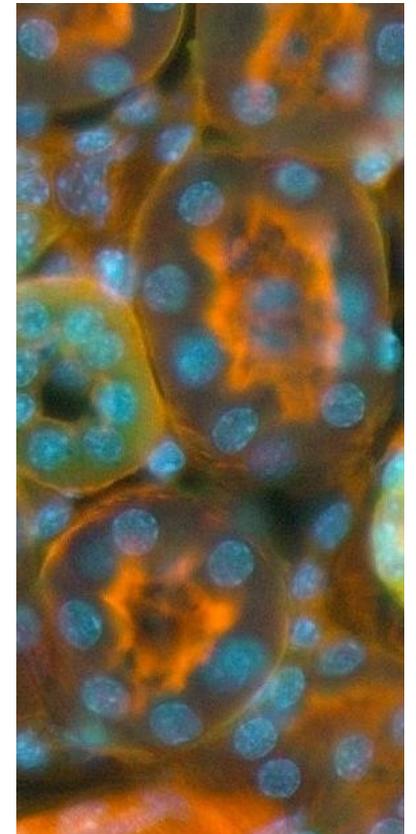

polarized light rock thin section

fluorescence FluoCells™ prepared slide #3 (mouse kidney section with Alexa Fluor™ 488 WGA, AlexaFluor™ 568 Phalloidin, and DAPI)

oil immersion blood

phase contrast

Supported microscopes	Trinocular with PLAN lenses or better
Supported scan modes	Brightfield, darkfield, phase contrast, polarization , oil immersion, and fluorescence
Supported cameras	Cameras with global shutter sensors or CCD sensors in progressive scan mode
Output file formats	SVS, TIFF, JPG, BMP, PNG
Shading compensation	Active compensation of shading / vignetting
Flicker compensation	Active compensation for older microscopes with flickering light sources
Freeze feature	Combination of multiple scans of different tissues / stains into one virtual slide
Snapshot feature	Shortcut to create and automatically save still images with or without scale bar while scanning. Alternatively, snapshots can be created via usb-foot switch.
Presets	Store and load settings for different objective lens magnifications and stains
Realignment	Semi-automatic, automatic
Barcode reading for high-throughput scanning	Integration of barcode reading for automated file name creation including regular expressions and time stamps
Pen annotation feature	Direct integration of basic annotations into the scan
White balance	Automatic and manual
Exposure adjustment	Automatic and manual

Microvisioneer manualWSI is for research use only.
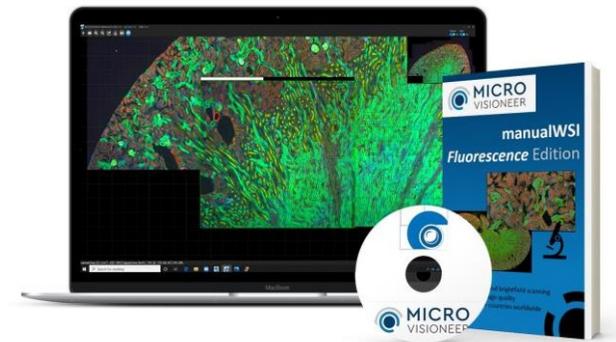
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Contact us to discuss your opportunities or to book an online demo.

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