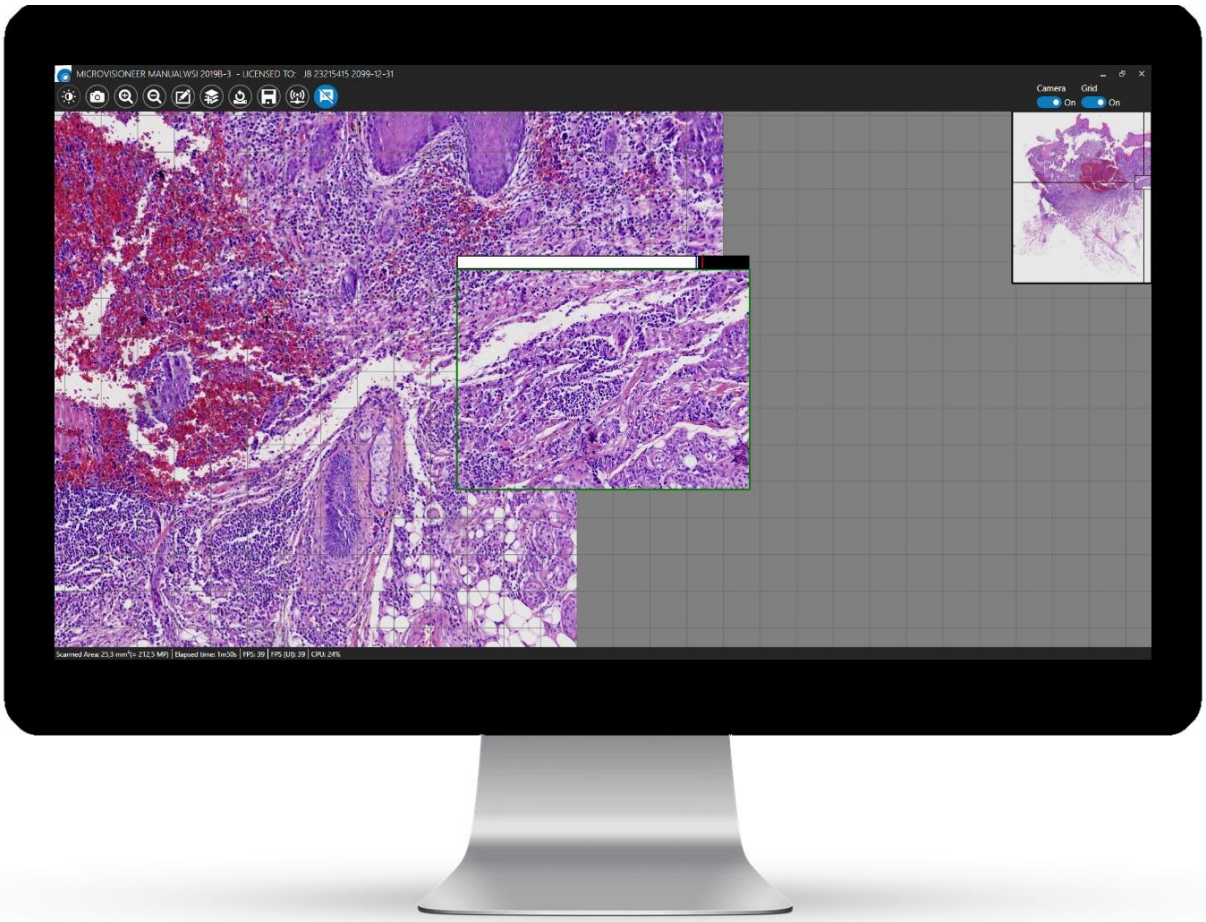
MICRO VISIONEER

MANUAL WHOLE SLIDE IMAGING



Microvisioneer mvSlide for Evident / Olympus Cameras

Manual Scanning - The easy solution for digital pathology

https://www.mvslide.com

The Microvsioneer mvSlide Scan Software

Upgrade your microscope to a manual slide scanner

Microvisioneer mvSlide is a high-quality and affordable manual scanning software allowing to upgrade existing microscopes with Evident (formerly Olympus) cameras to manual slide scanners. The exceptionally versatile and innovative solution enables customers in currently 60+ countries worldwide to create virtual whole slide images (WSI) for various applications. The mvSlide system is easy to use, readily available, and allows smooth and fastest image stitching in real-time at high quality, similar to that of automated slide scanners. Almost any type of slide can be digitized, no matter how exceptional.

> *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

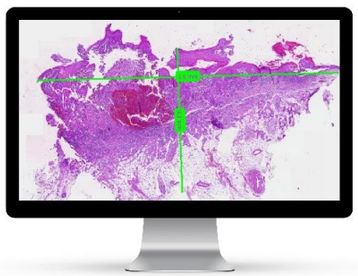
The manual scanning process

1

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

2

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

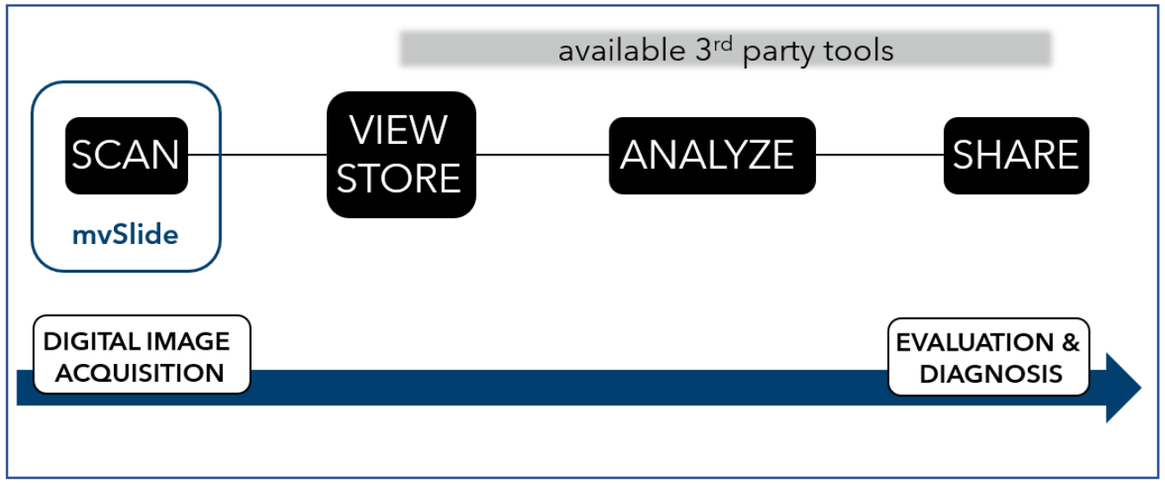


3

View, analyze, archive or share virtual slides. The virtual slides are saved in a standard digital pathology file format compatible with all major available viewers and image analysis tools. For sharing the images, simply use cloud-based systems.

The Digital Pathology Workflow with mvSlide

The easy transition to fully digital workflows



The Microvisioneer manual scanning solution based on the Microvisioneer mvSlide software and a compatible Evident / Olympus microscope camera 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.

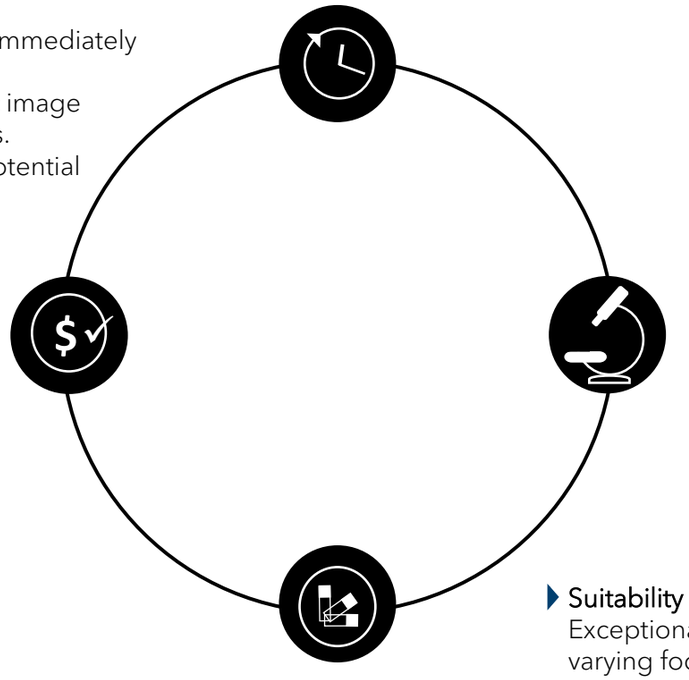
Microvisioneer mvSlide is an extremely powerful technique as it is easy to access and therefore significantly facilitates a transition to digital workflows.

Benefits and Opportunities

Good reasons for manual scanning with Microvisioneer mvSlide

Time-saving:
The Microvisioneer mvSlide software is immediately available.
mvSlide is the fastest manual panoramic image stitching software, even at large file sizes.
Manual scanning can compensate for potential outage of automated scanners.
Scan right away on your desk!

Affordable:
Upgrading of microscope with the mvSlide software is inexpensive.
It is a long-lasting solution without expensive maintenance.



Maintains traditional microscope features and camera quality:
Any desired objective can be selected.
Slides can still be assessed through the eyepiece.
The quality of the Evident / Olympus camera contributes to the quality of the Whole Slide Image.

Suitability for exceptional slides:
Exceptionally thick slides or slides with varying focus plane can be easily scanned due to the flexibility of the microscope.

mvSlide combined with Evident / Olympus microscope cameras opens up all the opportunities of digital pathology

Image Analysis
Use the high-quality whole slide images to perform representative and reproducible analyses.
Automate image analysis.

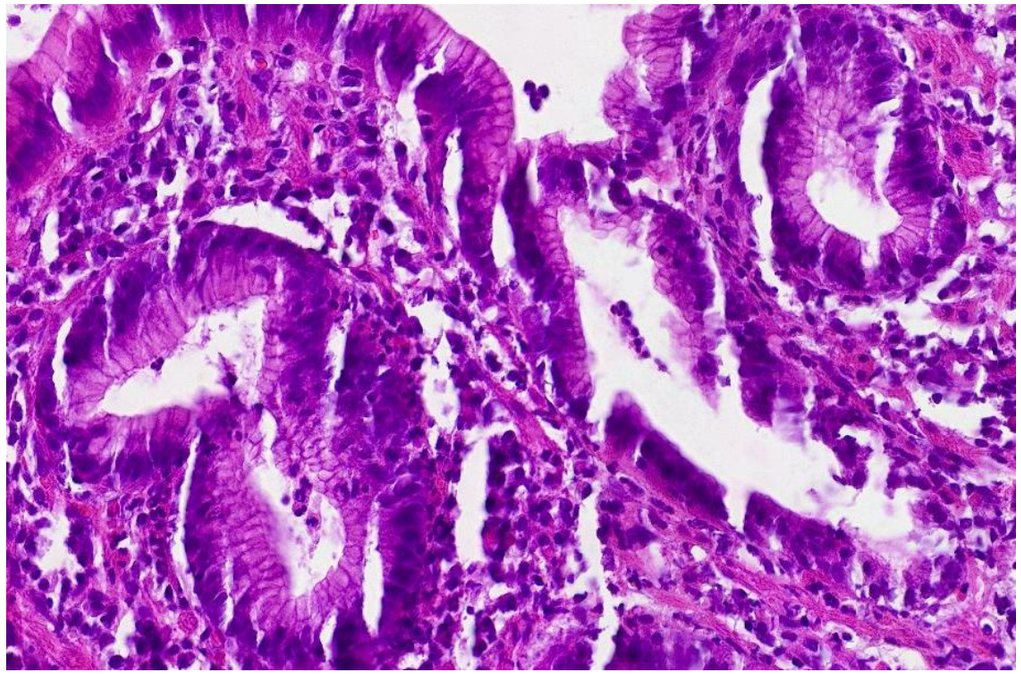
Documentation & Publication
Save your digital slides, annotations and comments.
Preserve the original staining.
Create publication-ready high-quality images.

Education
Scan your own teaching slides and move away from expensive glass slides.
All students see exactly the same virtual slide, remotely and simultaneously.

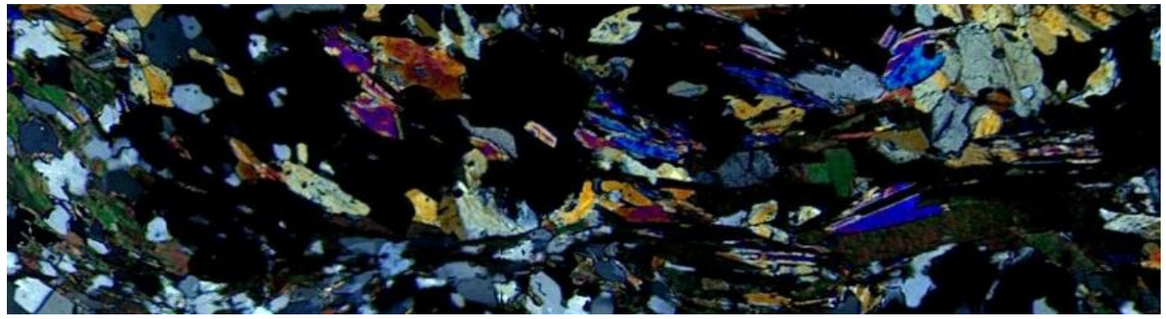
Collaboration
Share digital slides with colleagues worldwide.
Work remotely and save time and costs.

Applications

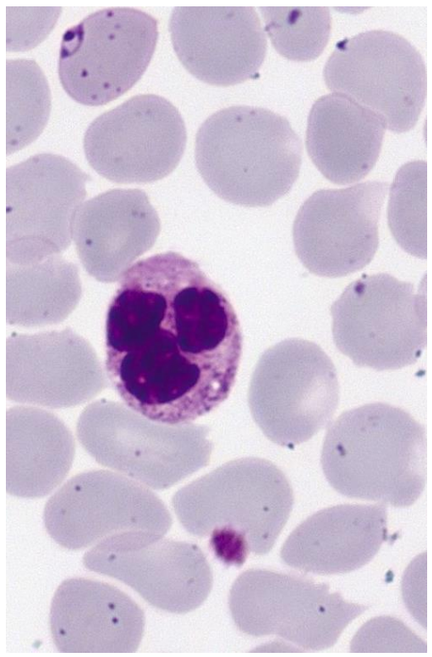
You decide what you scan



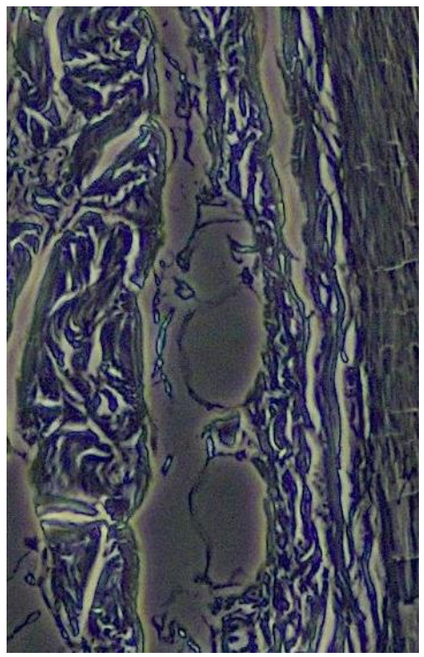
brightfield
human intestine, H&E stain



polarized light
rock thin section

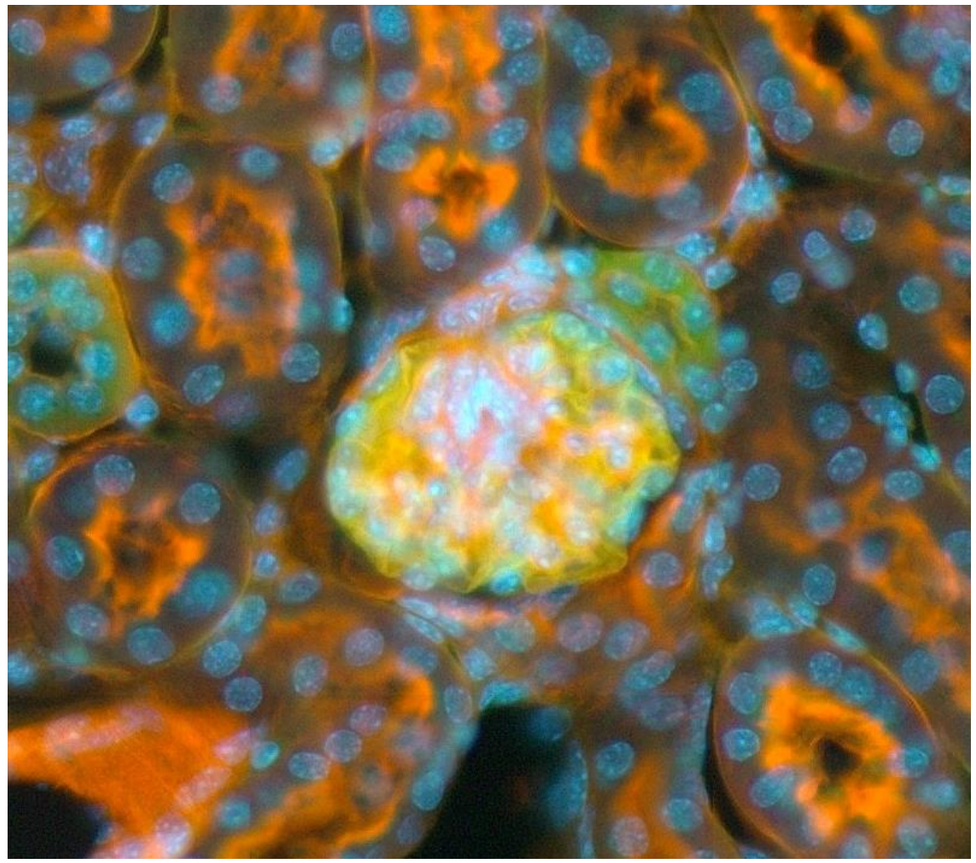


oil immersion
blood smear, Wright's stain



phase contrast
skin of pig embryo

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



Specifications

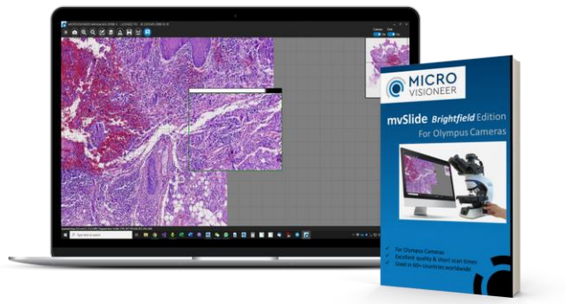
Key technical features of Microvisioneer mvSlide for Evident / Olympus cameras

Supported cameras	Compatible with Evident /Olympus cameras DP22, DP27, DP28, DP72, DP73, DP74, DP80
Supported microscopes	Trinocular with PLAN lenses or better
Supported scan modes	Brightfield, darkfield, phase contrast, polarization, oil immersion, and fluorescence
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 mvSlide is for research use only.

Microvisioneer Product Range

Find your solution

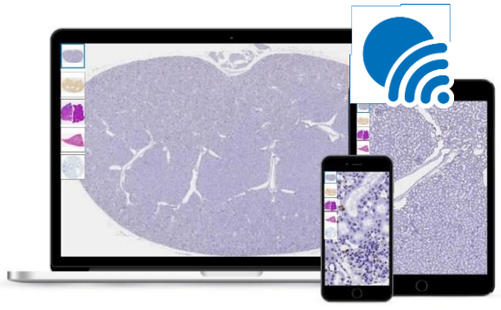


Microvisioneer mvSlide *Brightfield* Edition

Manual scanning for brightfield applications, oil immersion, polarized light and phase contrast.
Suitable for histology, immunohistochemistry, cytology, material science and many more.
For Evident / Olympus microscope cameras.

Microvisioneer mvSlide *Fluorescence* Edition

Manual scanning for brightfield applications *plus a special mode for fluorescence scanning*.
Both single channel and multi channel fluorescence imaging is possible. Fluorescent slides can be scanned at low costs and high quality with the existing equipment.
For Evident / Olympus microscope cameras.



Microvisioneer InstaSlide Slide Sharing Software

Immediate sharing of virtual slides via the internet with anyone, anywhere.
A Microvisioneer telemicroscopy solution.

Microvisioneer
Landolinsplatz 4
73728 Esslingen am Neckar
Germany
VAT ID: DE308339453

Contact us to discuss your opportunities and to get a free trial.

Email info@mvslide.com
Phone +49(0) 151 41605950

https://www.mvslide.com

MICRO VISIONEER