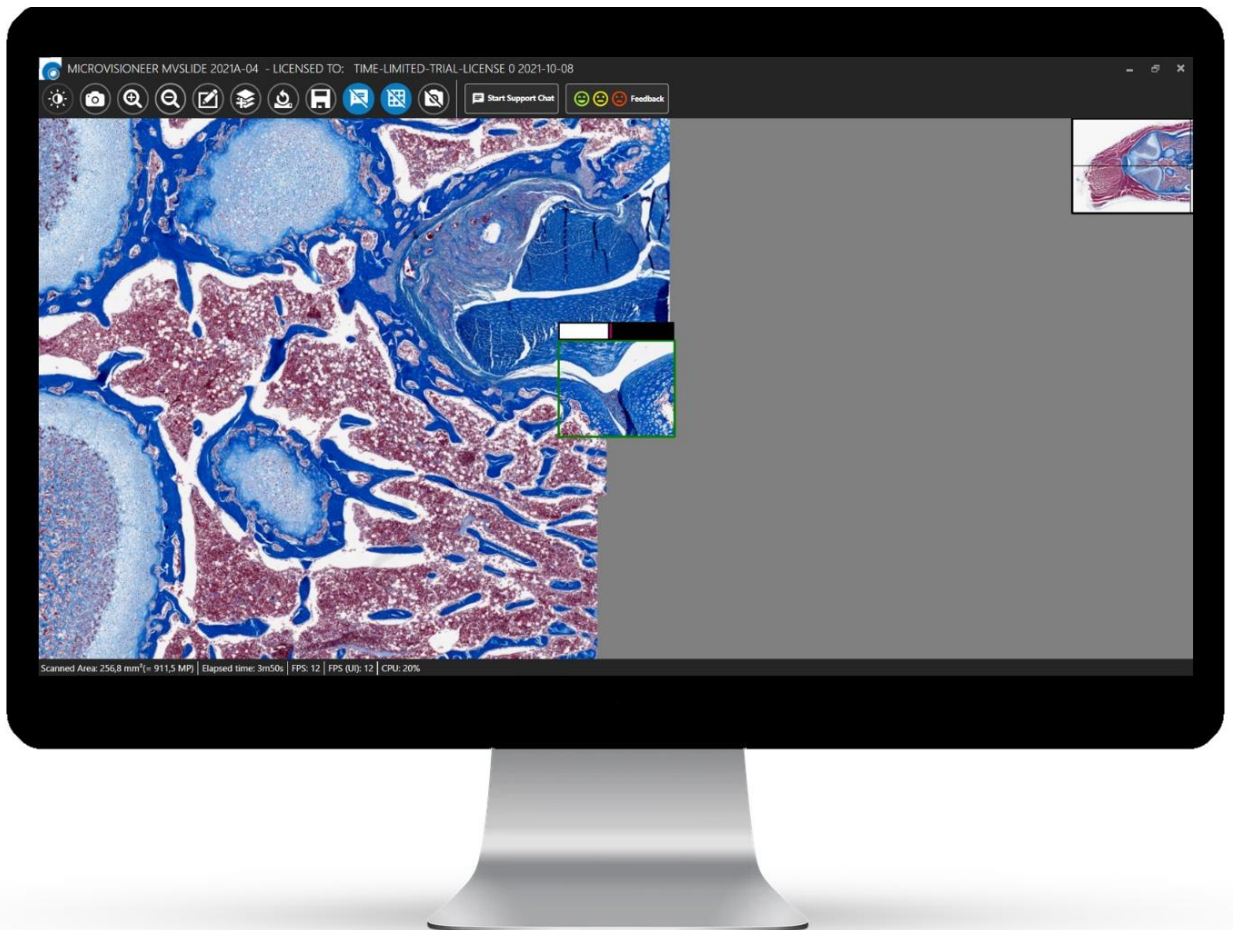




## MANUAL WHOLE SLIDE IMAGING



### **Microvisioneer mvSlide**

Manual Scanning Exclusively Developed for  
Carl Zeiss AxioCam Cameras

<https://www.mvslide.com>



# The Microvisioneer mvSlide Scan Software

Upgrade your microscope to a manual slide scanner

Microvisioneer’s high-quality manual scanning software solutions allow to upgrade existing microscopes to manual whole slide scanners. This exceptionally versatile and innovative approach enables customers in currently 55+ countries worldwide to create virtual whole slide images (WSI) for various applications.

The Microvisioneer mvSlide Edition has been specifically developed to be compatible with Carl Zeiss Axiocam cameras. Through this optimized integration, the excellent and proven performance of Carl Zeiss Axiocam cameras for digital imaging in light microscopy and the outstanding Microvisioneer manual whole slide imaging approach are perfectly combined to guarantee the best image quality and user experience possible.

Manual scanning with mvSlide is easy to use and readily available, and allows smooth and fast panoramic image stitching at highest quality, similar to that of automated slide scanners. Almost any type of slide can be digitized, no matter how exceptional. The scan size is unlimited. Scanning with mvSlide is suitable for histology, immunohistochemistry, cytology, material science and many more.

“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

## Microvisioneer mvSlide Brightfield Edition for Carl Zeiss Axiocam Cameras

Manual scanning exclusively compatible with:

- ▶ Carl Zeiss Axiocam cameras 305, 503, 506, 512, 702, 705, 712
- ▶ Carl Zeiss AxioCam cameras MR Rev. 3 and HR Rev. 3



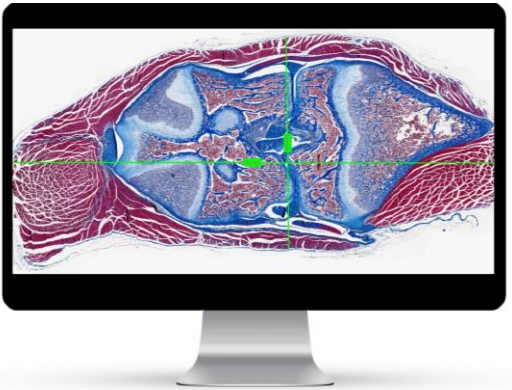
# The Manual Scanning Process with mvSlide

Easy, intuitive and smooth



**1** Upgrade your microscope to a manual slide scanner with a Carl Zeiss Axiocam camera and the exclusive Microvisioneer mvSlide scan software. 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 intuitive and smooth. Real-time stitching of the panoramic image is seamless. The image quality obtained from the integrated use of the Carl Zeiss Axiocam camera and the Microvisioneer mvSlide scan software is excellent.



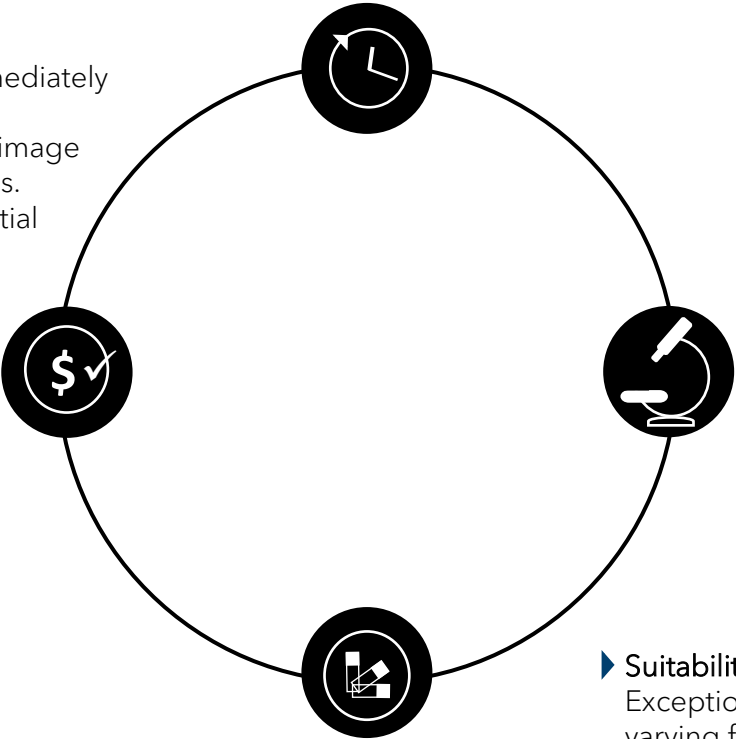
**3** View, analyze, archive or share virtual slides. The resulting virtual slides are saved in a standard digital pathology file format. Thus, they are compatible with all major digital pathology and image analysis tools. For sharing the images, simply use cloud-based systems.

# Scan Right Away on Your Desk

Benefits and opportunities of slide scanning with Microvisioneer mvSlide


▶ **Time-saving:**  
A Carl Zeiss Axiocam camera and the Microvisioneer mvSlide software are immediately available and can be installed instantly. mvSlide is the fastest manual panoramic image stitching software, even at large scan sizes. Manual scanning compensates 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 Carl Zeiss Axiocam cameras 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 Carl Zeiss Axiocam 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.

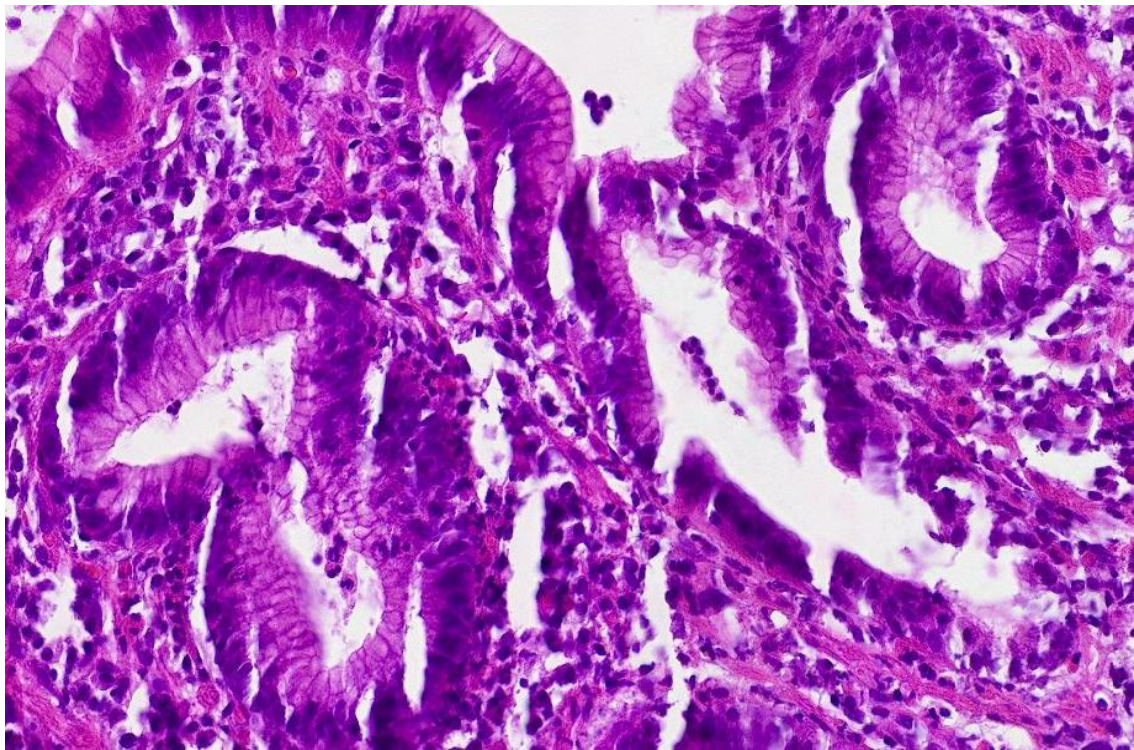


**Collaboration**  
Share digital slides with colleagues worldwide.  
Work remotely and save time and costs.

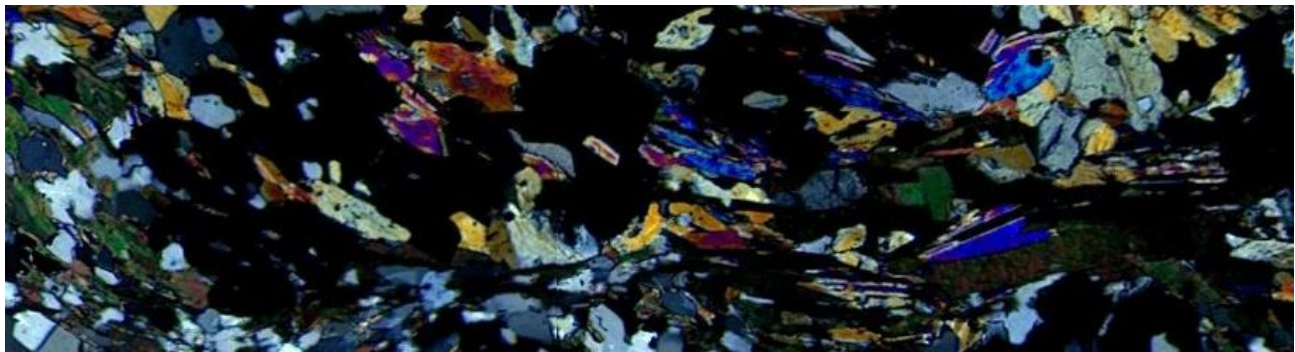


# Applications

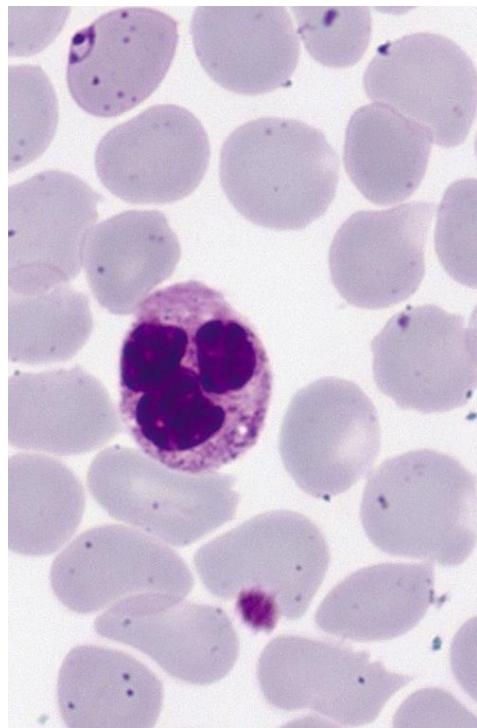
You decide what you scan



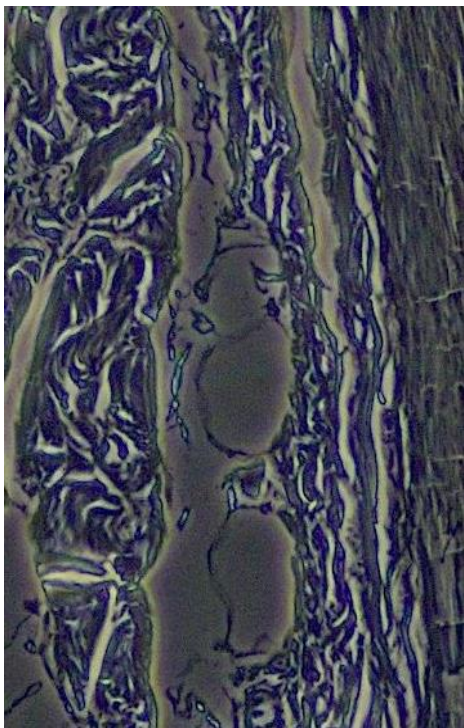
brightfield  
histology  
human  
intestine,  
H&E stain



polarized light  
rock thin section

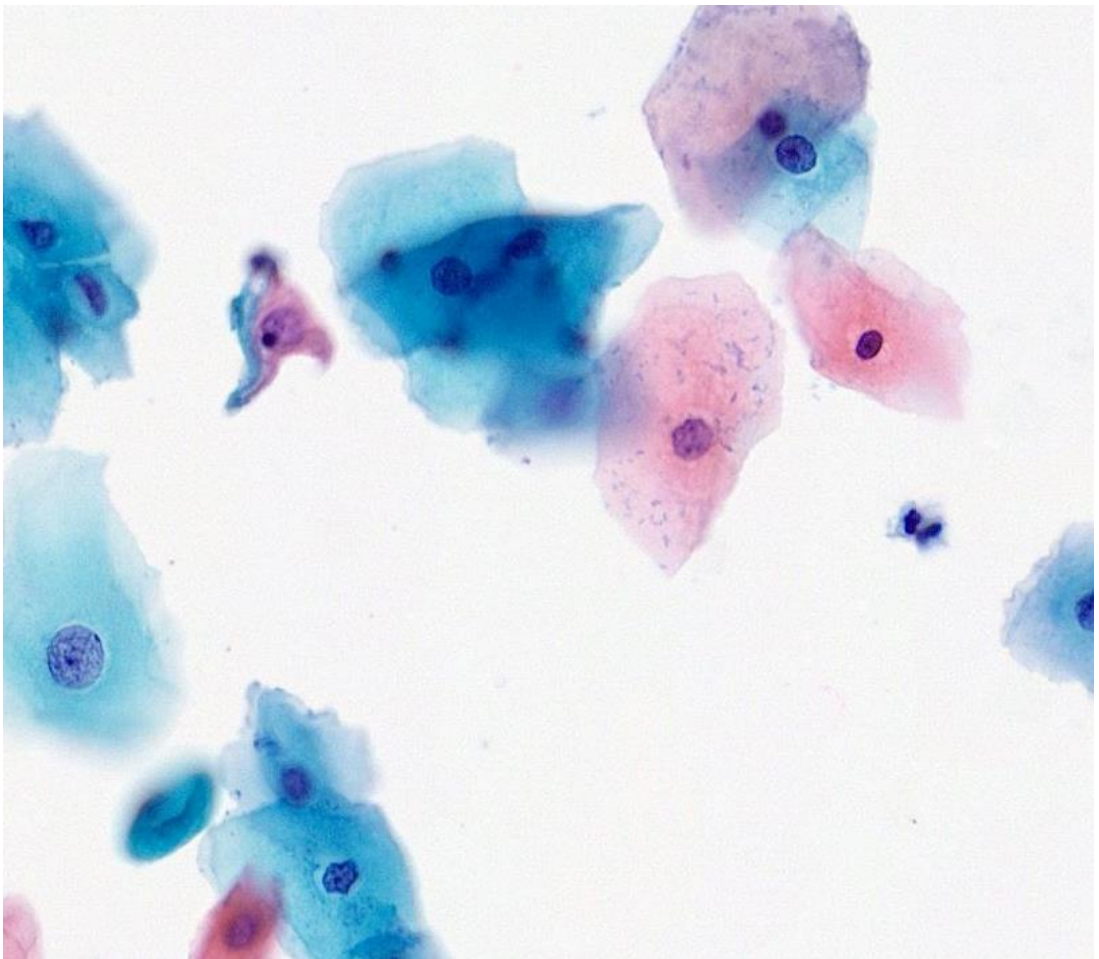


oil  
immersion  
blood  
smear,  
Wright's  
stain



phase  
contrast  
skin of  
pig  
embryo

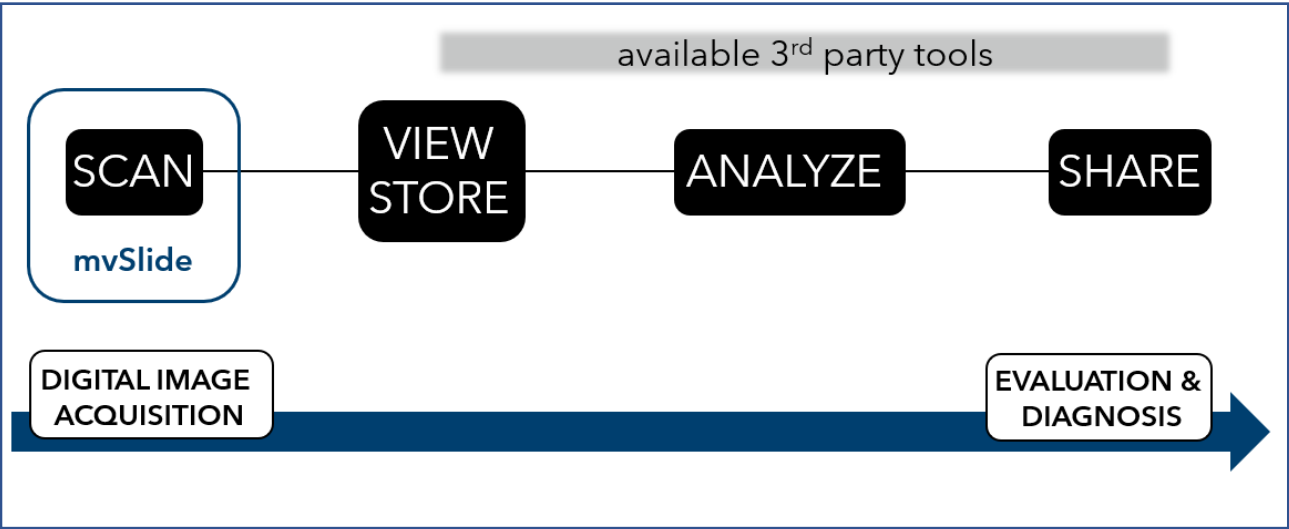
brightfield  
cytology  
gynecologic  
sample,  
papanicolaou  
stain





# 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 [Carl Zeiss Axiocam camera](#) can be readily integrated into any digital pathology environment. The file formats of the whole slide images are standard and open industry file formats which are compatible with all major existing 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 digital pathology workflow can be established.

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

# Specifications

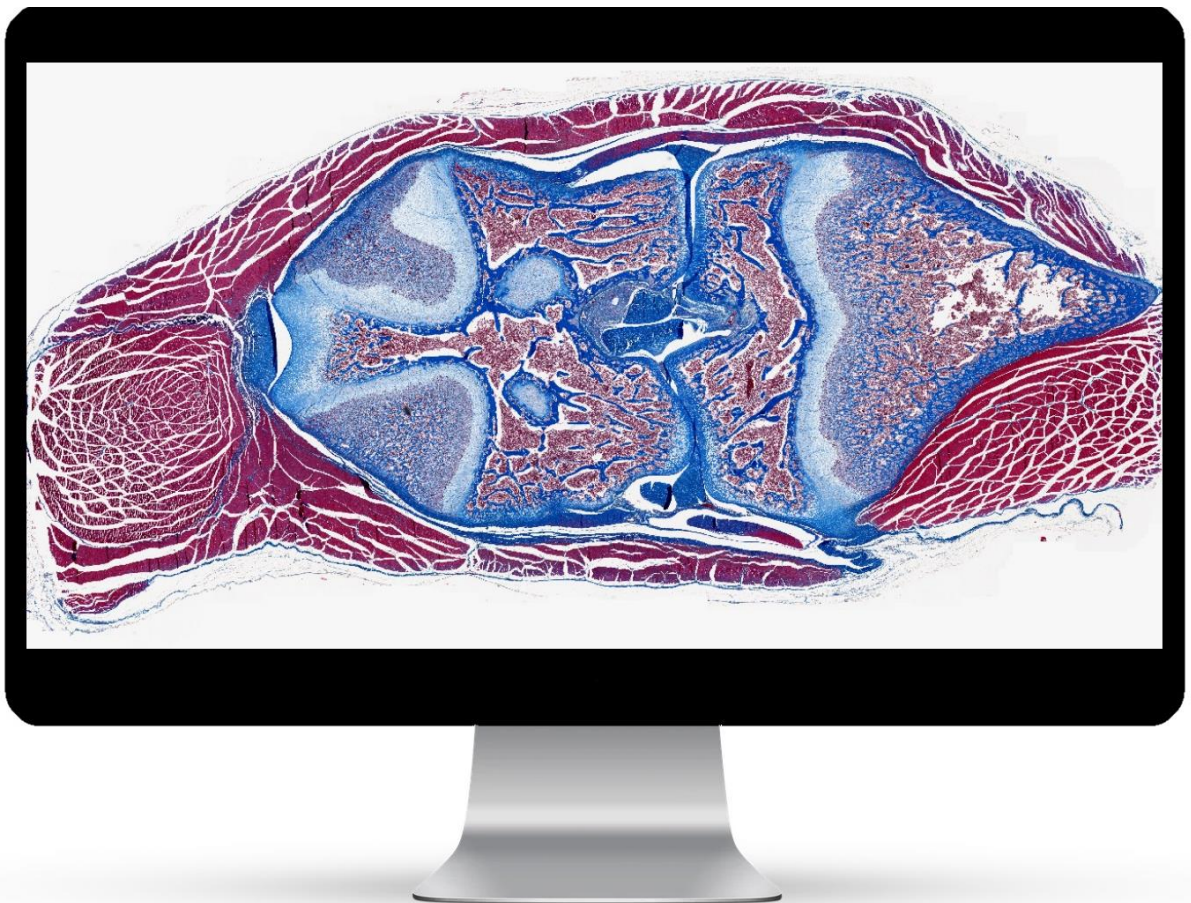
Key technical features of Microvisioneer mvSlide

Supported cameras	Compatible with Carl Zeiss Axiocam cameras <ul style="list-style-type: none"><li>Carl Zeiss Axiocam 305, 503, 506, 512, 702, 705, 712</li><li>Carl Zeiss AxioCam MR Rev. 3, HR Rev. 3</li></ul>
Supported scan modes	Brightfield, darkfield, phase contrast, polarization, and oil immersion
Supported microscopes	Trinocular with PLAN lenses or better
Output file formats	SVS, TIFF, JPG, BMP, PNG
Shading compensation	Active compensation of shading / vignetting
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 (RUO).

## Microvisioneer

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