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Microscope and Scanner



# PreciPoint M8

Dual digital microscope & scanner to accelerate and digitize your workflow

## All-in-one device

The M8 serves both as a microscope and a scanner, thus offering completely new possibilities for your workflow.

## Empower your application

The M8 is the perfect working tool for various applications.

## Digitize your workflow

View a 15x15mm area within seconds at the highest resolution and image quality. Scan and save your images for future examinations.

## Cloud and image analysis

Empower your work with cloud solutions, virtual classrooms, and powerful image analysis tools.

## Live remote control

Control the M8 from anywhere at anytime and simultaneously work with colleagues for second opinions.

## Made in Germany

PreciPoint products are made and engineered in Germany since 1982.



# All-in-one device

Accelerate your workflow with the M8 Microscope and Scanner



**The M8 is an all-in-one device** that offers completely new possibilities for your workflow. The M8 is equipped with three different modes - Live, Instant Scan, and Slide Scan. With these three modes combined, the M8 serves both as a microscope and a scanner. It allows you to directly work on your sample, perform various analyses, and to scan your slides for documentation and future viewing. With its live remote control capability, the M8 can also be controlled from all over the world. Thanks to its entirely automated hardware, you can work on a sample from anywhere, just as if you were right next to the device.

Let your work get faster, easier, and smarter with the M8 Microscope and Scanner.

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## Different operating modes tailored to diverse workflows

The Instant Scan mode is a world's first and unique to PreciPoint

### Live Mode

The Live Mode offers capabilities of a digital microscope. See the sample live, and zoom through the sample to view different layers and structures in your specimen. The overview image helps you to orientate and navigate.

### Instant Scan Mode

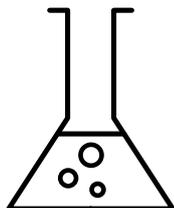
The Instant Scan mode is unique to PreciPoint. It gives you a large field of view of a digital scan with the speed of a microscope. Access a 15x15mm area within seconds at high resolution. Perform analyses, look for rare happenings, make annotations, take notes, and then digitize everything. Generate all the reports you need.

### Slide Scan Mode

Achieve highest quality scans to digitize your microscope slides. Scanning your selected region of interest (ROI) or whole slide imaging (WSI) is possible, regardless of the sample's thickness, size, and difficulty (e.g. cytology and osteology slides).

# Digitize your workflow

Uses of the M8



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## Research

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Speeds research by quickly digitizing images

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Ergonomic large touch screen makes long research hours easier

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Increases accuracy with annotation tools

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High quality slides scans for publications and documentation

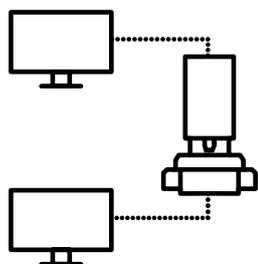
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Work from home with virtual microscopy

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Receive consultations with remote control immediately

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## Remote Control

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Access samples from anywhere at anytime

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Save travel time and shipping costs

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Work from home, virtually consult colleagues

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Have full control of microscope without directing technician

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Save scan wait time

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Eliminate on-call traveling physicians

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## Education

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Project microscope onto large screen when exploring specimen

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Eliminates need for a microscope and slide per student

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Provide comprehensive overview in high quality

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Annotate samples together live

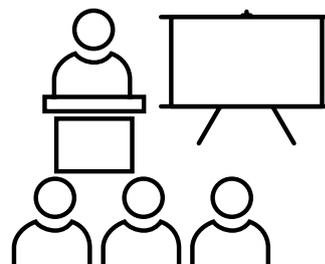
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Scan and share images after class

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Work from home, create virtual classrooms

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## Conferences

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Project microscope onto large screen when exploring specimen

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Overview image helps you and the audience to orientate

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Provide comprehensive overview in high quality

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View and analyze live images together

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Remote presentations possible

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Save travel time and shipping costs

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# Live remote control

Access the M8 from anywhere at anytime

Users can log into the M8 from anywhere in the world, directly steer the M8 live, offer their opinions remotely, and even participate in consultations from their own offices. These are a few of the many benefits that the M8 offers with its live remote control capabilities. You no longer have to use hefty dual or multi headed microscopes. No more scanning the sample beforehand. No more traveling. No more shipping slides.

Thanks to the fully automated and motorized M8 Microscope & Scanner, users can access and control the M8 from afar and steer the M8 live and instantly. Live remote control is possible on computers, laptops, tablets, and even smart phones. Evolve the way you participate in teaching, conferencing, collaboration, second opinion consultation, and more.

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## Benefits of live remote control

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Access samples from anywhere at anytime

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Simultaneous viewing for multiple users for second opinions

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Top image quality with large field of view within seconds

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View different layers with manual focus plane adjustment

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Save travel time and shipping costs

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Save scan waiting time

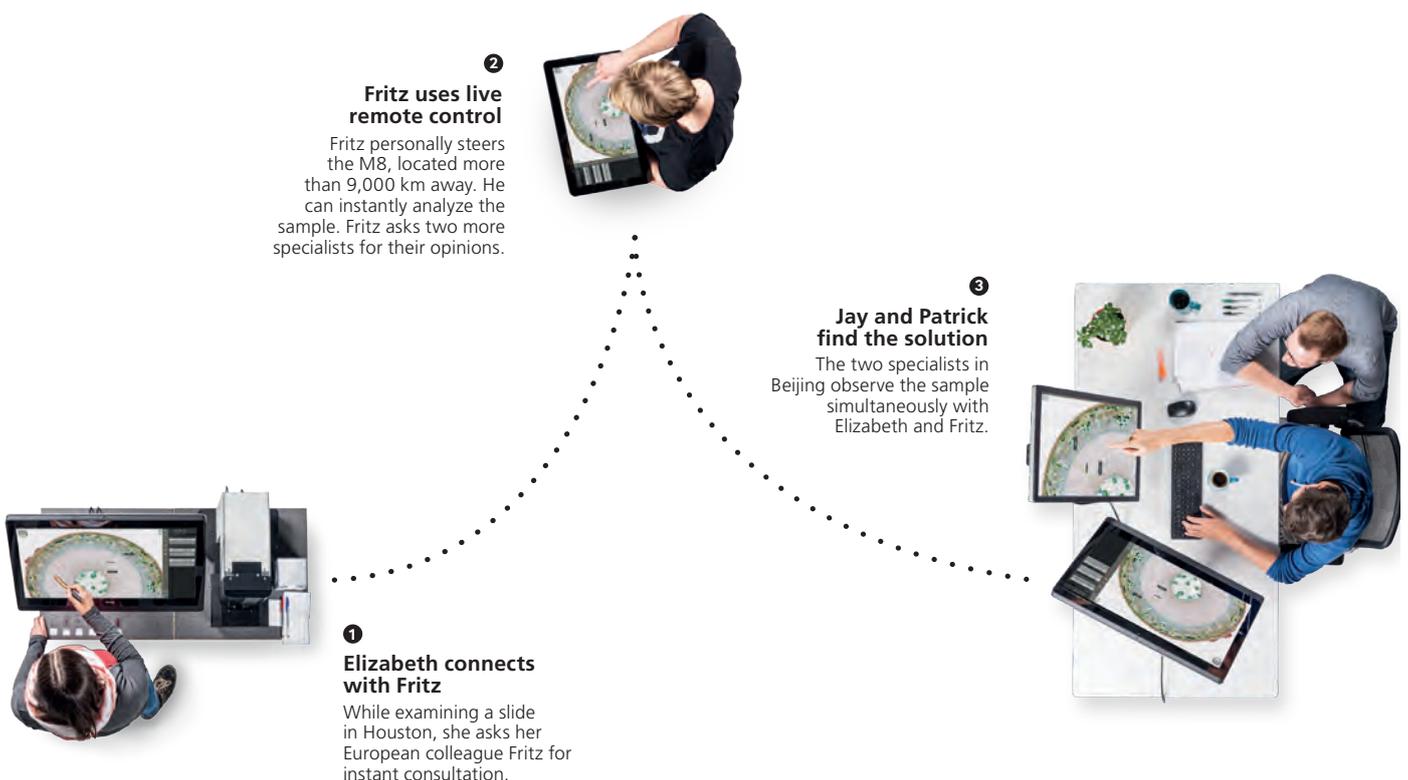
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No worries about scanner sensitivity and unfocused images

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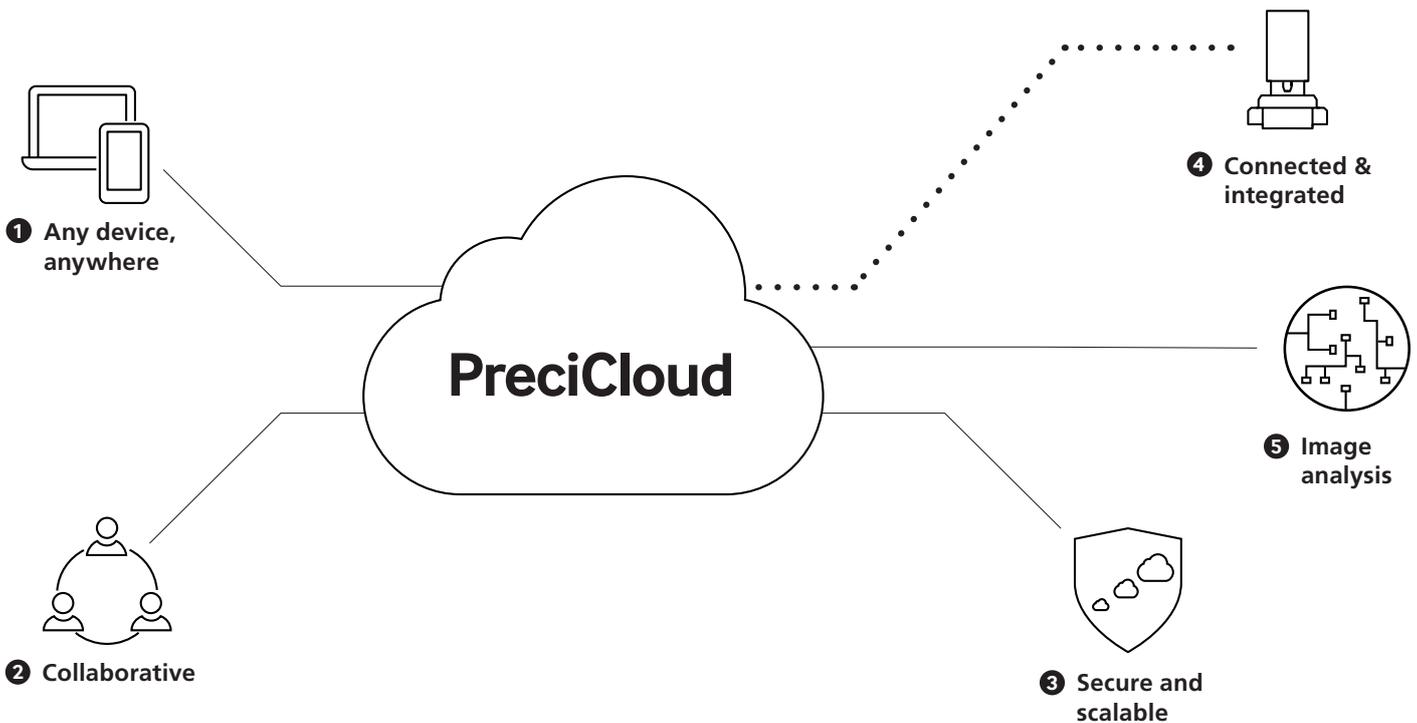
Easy handling and cleaning when switching between fresh sample slides

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# Cloud and image analysis: PreciCloud

Centralize and digitize your workflow on our secure web-based platform – PreciCloud



## 1 Work seamlessly from wherever you are

Store, view, share, and access your digital images and slides from anywhere in the world with any device. Our web-based solution works both in desktop and mobile browsers. The platform will provide everything you need to organize your tasks and projects of any size.

## 3 Secure and scalable

PreciCloud is perfectly adapted for your data: Within our platform, users have the option to control sharing rights and permissions, as well as to have access to logs for documenting or auditing purposes. Our cloud platform is inclusive, secure, and scalable.

## 5 Use image analysis to empower your work

PreciPoint provides a collection of powerful and automated analysis tools that use cutting edge image recognition and machine learning algorithms. Pre-analysis is made possible with the help of a deep learning approach for final review by users.

## 2 Set up collaborative workflows & virtual classrooms

The comprehensive tools available on PreciCloud enable you to set up virtual classrooms, collaborative workflows, as well as second opinion consultation. Experts and colleagues can easily interact simultaneously while working in different locations.

## 4 Full integration to your PreciPoint products

All PreciPoint solutions are connected and fully integrated. You may upload your scans from a PreciPoint microscope and scanner directly onto PreciCloud. Share and access your slides virtually without needing to transfer files manually.

# In brief

## Technical data and key features of the M8

### Microscope and Scanner

Operating modes tailored to diverse workflows:	Live-mode, InstantScan mode, SlideScan-mode
Light:	Transmitted Light; LED, brightfield
Barcode scanning:	Upon request
Supported objectives:	20x to 60x air (Nikon)
Seamless zoom:	Live-Stitching makes objective changes unnecessary
Dimensions:	45 cm x 40 cm x 30 cm; 25 kg
Automated Microscope:	X-Y-stage automated, Z-axis automated
Handling:	Controlled with computer; Live remote control due to automation

### Digitization

Scanning parameters:	Whole Slide Imaging or partial digitization
Scanning algorithms:	Different scanning algorithms tailored to different slide qualities
InstantScan-mode:	Large field of view within seconds at high resolution
Scanning speed per slide with 20x:	2 min <sup>1</sup>
Scanning resolution with 60x:	0.85NA; 0.16µm/px
Scanning resolution with 40x:	0.75NA; 0.24µm/px
Scanning resolution with 20x:	0.50NA; 0.479µm/px
Slide capacity:	25 x 75 mm (2 slides) or 50 x 75 mm (1 slide)
Z-Axis Resolution:	25 nm
XY-Axis Resolution:	78 nm
Z-Stacking:	Yes

### Cloud, Image Analysis, and Computer

Operating software:	MicroPoint included
Viewer software:	ViewPoint* included (unlimited users)
Storage:	PreciCloud slide storage
Image analysis:	Several software applications on request, based on customer needs
Computers:	Various computers recommended and approved by PreciPoint
Microscope computer connection:	USB 3.0
Image output formats:	PNG, JPEG, TIFF, BMP, VMIC, XLS, and many more

*RUO (intended for use in non-clinical laboratory research)  
Technical specifications Subject to change without notice*

<sup>1</sup>Dependent on sample preparation, scan parameters and objectives; 15x15 mm

<sup>2</sup>Dependent on used objective

\*Free download of ViewPoint on [www.precipoint.com](http://www.precipoint.com)

# 0.16 $\mu\text{m}/\text{px}$

Scanning resolution:

60x, 0.85NA; 0.16 $\mu\text{m}/\text{px}$

40x, 0.75NA; 0.24 $\mu\text{m}/\text{px}$

20x, 0.50NA; 0.479 $\mu\text{m}/\text{px}$

## 2 min

15 x 15mm area scanned in  
2min at 20x objective

## 3 modes

All-in-one device: three operating  
modes tailored to diverse workflows

The PreciPoint  
product family

**M8** Microscope  
and  
Scanner



**O8** Oil Microscope  
and  
Scanner

