



Microscope and Scanner



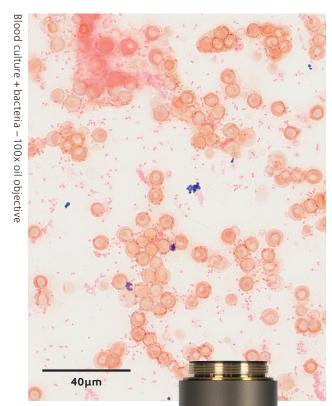
PreciPoint 08

The unique solution for oil immersion whole slide scanning and general digital microscopy. Accelerate and digitize your workflow.

Whole Slide Scanning

Scan whole slides and selected regions of interest with objectives ranging from 20x to 100x in oil or air

For the first time, users are offered the possibility to generate scanned whole slide images with oil objectives in highest quality. The resulting images are stunning. The O8 is a great working tool for various applications, allowing completely new use cases. The availability of digital whole slide images helps users to simplify and standardize their work, thereby increasing efficiency and quality.



Nikon Plan Fluor

00X/1.30 Oil 0FN25 DIC H/N2

100x

Scanning resolution: 100x, oil objective, 100x: NA 1.3 0.096 µm/Px

Benefits of whole slide scanning

Connect different sites and locations with digital images

Create networked and centralized support and service

Work with and share same slides to your audience

Decrease turnaround times

Save shipping costs

Enhance and promote quality through standardization

All-in-one device

Accelerate your workflow with the O8 Microscope and Scanner



The O8 is an all-in-one device that offers completely new possibilities for your workflow. The O8 is equipped with three different modes - Live, Instant Scan, and Slide Scan. With these three modes combined, the O8 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 O8 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 O8 Microscope and Scanner.

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

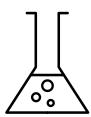
The Instant Scan mode is unique to PreciPoint. It gives you a large field of view of a digital scan with the speed of a microscope. Access a 15x15mm area within seconds at high resolution. Perform analyses, look for rare happenings, make annotations, take notes, and then digitize everything. Generate 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 O8



Research

Speeds research by quickly digitizing images

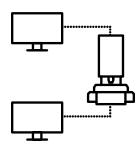
Ergonomic large touch screen makes long research hours easier

Increases accuracy with annotation tools

High quality slides scans for publications and documentation

Work from home with virtual microscopy

Receive consultations with remote control immediately



Remote Control

Access samples from anywhere at anytime

Save travel time and shipping costs

Work from home, virtually consult colleagues

Have full control of microscope without directing technician

Save scan wait time

Eliminate on-call traveling physicians



Education

Project microscope onto large screen when exploring specimen

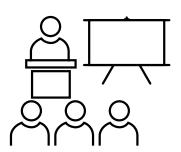
Eliminates need for a microscope and slide per student

Provide comprehensive overview in high quality

Annotate samples together live

Scan and share images after class

Work from home, create virtual classrooms



Conferences

Project microscope onto large screen when exploring specimen

Overview image helps you and the audience to orientate

Provide comprehensive overview in high quality

View and analyze live images together

Remote presentations possible

Save travel time and shipping costs

Live remote control

Access the O8 from anywhere at anytime

Users can log into the O8 from anywhere in the world, directly steer the O8 live, offer their opinions remotely, and even participate in consultations from their own offices. These are a few of the many benefits that the O8 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 O8 Microscope & Scanner, users can access and control the O8 from afar and steer the O8 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.

Benefits of live remote control

Access samples from anywhere at anytime

Simultaneous viewing for multiple users for second opinions

Top image quality with large field of view within seconds

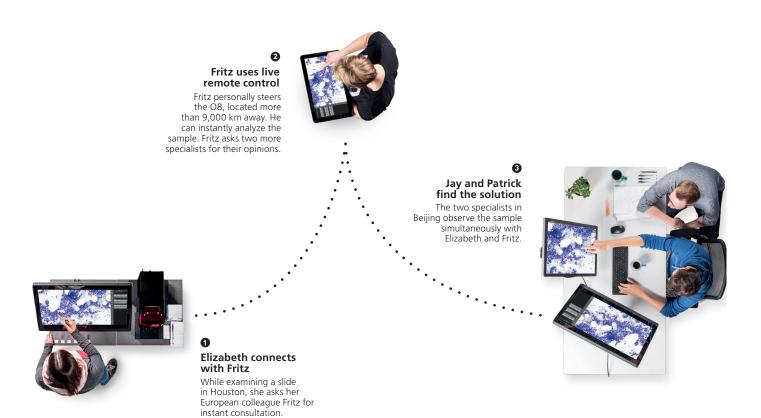
View different layers with manual focus plane adjustment

Save travel time and shipping costs

Save scan waiting time

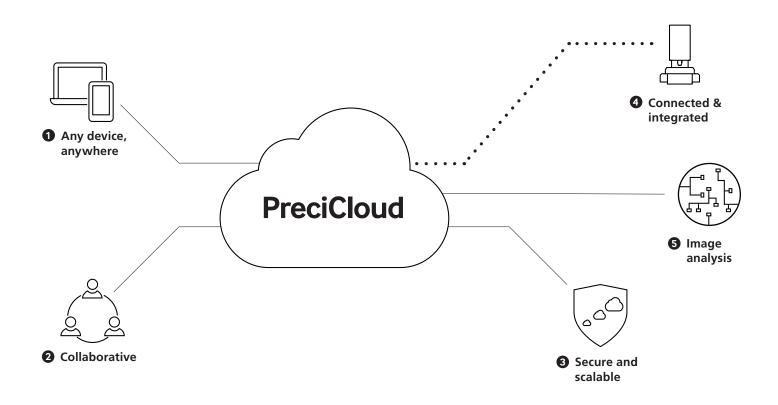
No worries about scanner sensitivity and unfocused images

Easy handling and cleaning when switching between fresh sample slides



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 O8

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 100x air and oil (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 100x:	1 h1
Scanning speed per slide with 20x:	2 min1
Scanning resolution with 100x:	100x: NA 1.3 0.096 μm/Px
Scanning resolution with 60x:	60x: NA 0.85 0.160 μm/Px,
Scanning resolution with 40x:	40x:NA 0.75 0.240 μm/Px
Scanning resolution with 20x:	20x: 0.5 NA 0.479 μm/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

¹Dependent on sample preparation, scan parameters and objectives; 15x15 mm ²Dependent on used objective *Free download of ViewPoint on www.precipoint.com



The PreciPoint product family

Microscope and Scanner



Oil Microscope and Scanner

