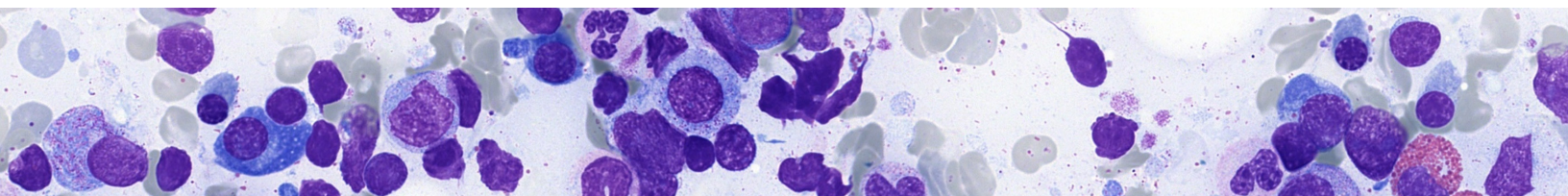




precipoint

Digital Microscopes & Slide Scanners



PreciPoint

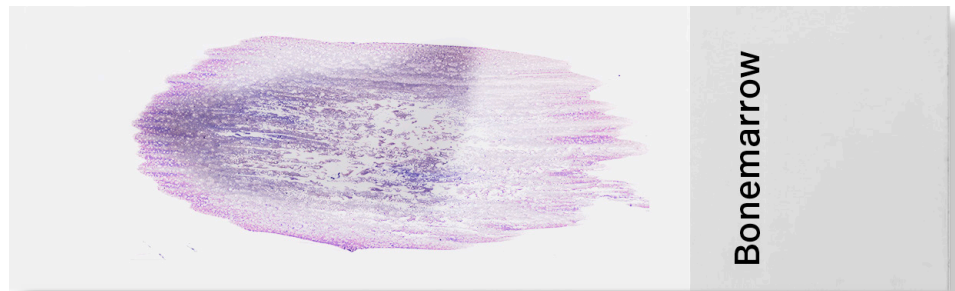
Fritz, M8 and O8

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

Whole slide scanning

Scan whole slides and selected regions of interest with air and oil objectives up to 100X.

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All-in-one device

These systems serve both as a microscope and a scanner, thus offering completely new possibilities for your workflow.

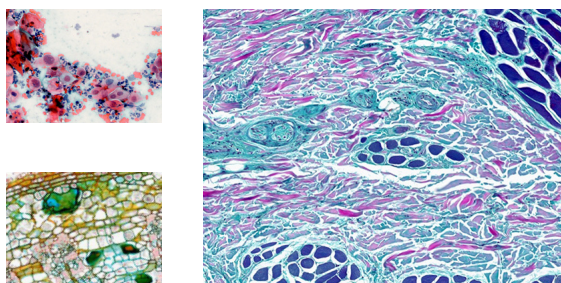
Page 5



Empower your application

The perfect working tools for
various applications.

Page 6



Made in Germany

PreciPoint products are made and
engineered in Germany since 1982.

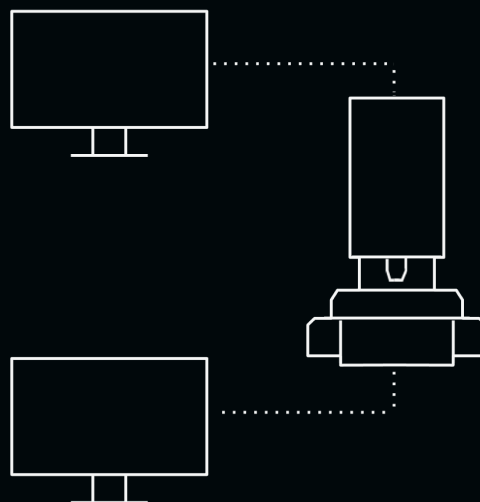
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Live remote control

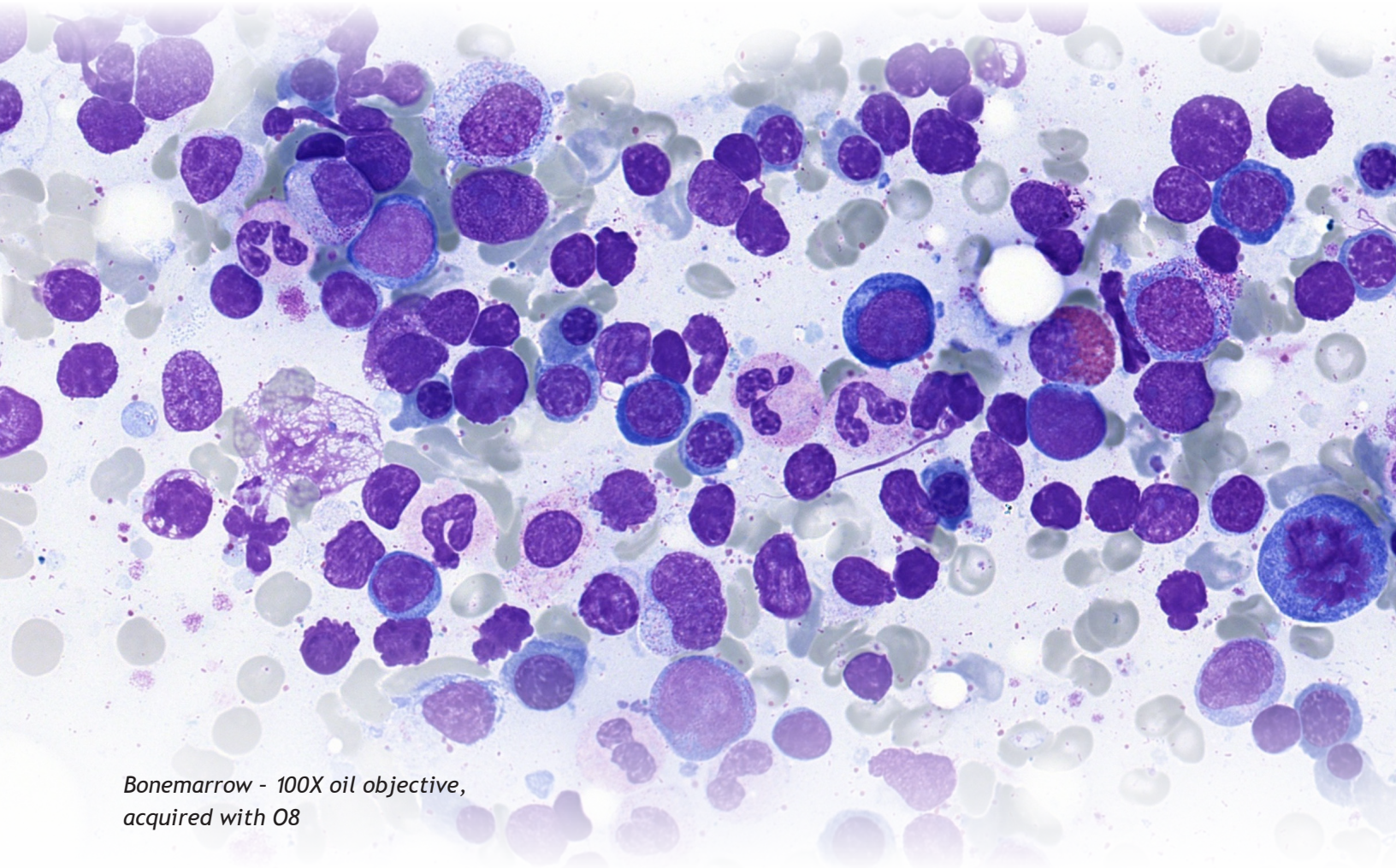
Control from anywhere at
anytime and simultaneously
work with colleagues for
second opinions.

Page 7



Whole Slide Scanning

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



*Bonemarrow - 100X oil objective,
acquired with O8*

For the first time, users are offered the possibility to generate scanned whole slide images with both air and oil objectives in the highest quality. The resulting images are stunning. The PreciPoint 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.

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 Fritz,
M8 and O8 Microscope and Scanner



The PreciPoint all-in-one devices offer completely new possibilities for your workflow. All models have the ability to perform Live and Slide Scanning modes, enabling the systems to function as both a microscope and a scanner. This allows you to directly work on your sample, perform various analyses, and to scan your slides for documentation and future viewing. The M8 and O8 are especially equipped with a third function-InstantScan. This mode provides a live-updating, user-defined image stitching mode for on demand imaging needs.

With its live remote control capability, the PreciPoint 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 PreciPoint Microscope and Scanner.

Three operating modes tailored to diverse workflows

The InstantScan 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.

InstantScan Mode*

The InstantScan 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 15x15 mm 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.

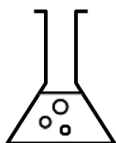
Slide Scan Mode

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).

**InstantScan Mode not available on the Fritz*

Digitize your workflow

Applications of the Fritz, M8 and 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



Education

Project microscope onto large screen when exploring specimen

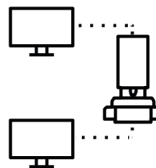
Eliminates need for a microscope and slide per student

Provide comprehensive overview in high quality

Annotate samples together live

Scan and share images after class

Work from home, create virtual classrooms



Remote Control

Access samples from anywhere at anytime

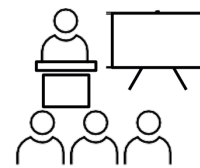
Save travel time and shipping costs

Work from home, virtually consult colleagues

Have full control of microscope without directing technician

Save scan wait time

Eliminate on-call traveling physicians



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

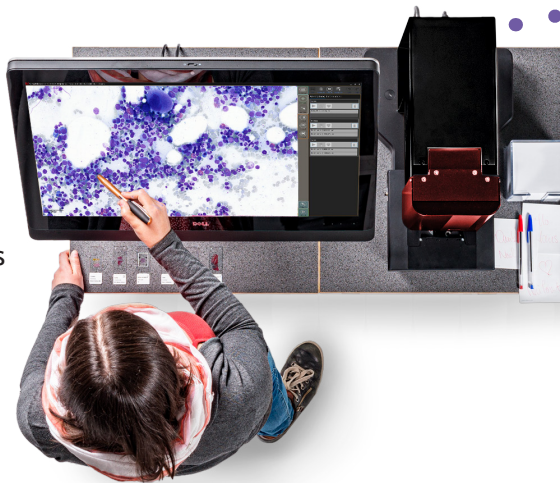
Access from anywhere at anytime
from any PreciPoint system

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

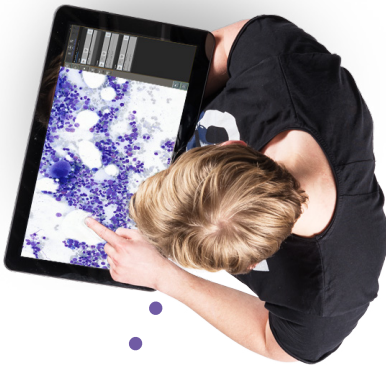
- Access samples from anywhere at anytime
- Simultaneous viewing for multiple users for second opinions
- Top image quality with large field of view within seconds
- View different layers with manual focus plane adjustment
- Save travel time and shipping costs Save scan waiting time
- No worries about scanner sensitivity and unfocused images
- Easy handling and cleaning when switching between fresh sample slides



1

Elizabeth connects with Stan

While examining a slide in Houston, she asks her European colleague Stan for instant consultation.



2

Stan uses live remote control

Stan personally steers the O8, located more than 5,000 miles away. He can instantly analyze the sample. Stan asks two more specialists for their opinions.

3

Jay and Patrick find the solution

The two specialists in Beijing observe the sample simultaneously with Elizabeth and Stan. Together as a team, they find the solution.



Fritz Microscope and Scanner

Technical data and key features of the Fritz



Fritz front-view

In brief

Technical data and key features of the Fritz



Microscope and Scanner	
Operating modes tailored to diverse workflows	Live-mode, SlideScan-mode
Light	Transmitted Light; LED, Brightfield
Barcode scanning	Upon request
Supported objectives	Nikon Plan Fluor Dry 20X, 40X
Seamless zoom	Automated Stitching makes objective changes unnecessary
Dimensions	45x40x30 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
Scanning speed per slide with 20X	2 min ¹
Scanning resolution with 40X	0.75 - 0.95 NA ² : 0.28 µm/px
Scanning resolution with 20X	0.5 - 0.8 NA ² : 0.55 µm/px
Slide capacity	25x75 mm (2 slides) or 50x75 mm (1 slide)
Z-Axis Resolution	25 nm
XY-Axis Resolution	78 nm
Z-Stacking	Yes
Software and Workstation	
Operating software	MicroPoint included
Viewer software	ViewPoint ³ included (unlimited users)
Storage	PC-based workstation and/or PreciCloud slide storage ⁴
Image analysis	Several software applications on request, based on customer needs
Computers	HP Z2 mini; Intel 3.6GHz i7 12core, 16GB RAM, NVIDIA 4GB GPU
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 objective used

³Free download of ViewPoint on www.precipoint.com

⁴PreciCloud slide storage available from PreciPoint

M8 Microscope and Scanner

Technical data and key features of the M8



M8 front-view

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	Nikon Plan Fluor Dry 20X, 40X, 60X
Seamless zoom	Live-Stitching makes objective changes unnecessary
Dimensions	45x40x30 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 ¹
Scanning resolution with 60X	0.9 NA: 0.18 µm/px
Scanning resolution with 40X	0.75 - 0.95 NA ² : 0.28 µm/px
Scanning resolution with 20X	0.5 - 0.8 NA ² : 0.55 µm/px
Slide capacity	25x75 mm (2 slides) or 50x75 mm (1 slide)
Z-Axis Resolution	25 nm
XY-Axis Resolution	78 nm
Z-Stacking	Yes
Software and Workstation	
Operating software	MicroPoint included
Viewer software	ViewPoint ³ included (unlimited users)
Storage	PC-based workstation and/or PreciCloud slide storage ⁴
Image analysis	Several software applications on request, based on customer needs
Computers	HP Z2 mini; Intel 3.6GHz i7 12core, 16GB RAM, NVIDIA 4GB GPU
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 objective used

³Free download of ViewPoint on www.precipoint.com

⁴PreciCloud slide storage available from PreciPoint

08 Oil Microscope and Scanner

Technical data and key features of the 08



08 front-view

In brief

Technical data and key features of the 08



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	Nikon Plan Fluor Dry 20X, 40X, 60X, Nikon Plan Fluor Oil 40X, 60X, 100X
Seamless zoom	Live-Stitching makes objective changes unnecessary
Dimensions	45x40x30 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 h ¹
Scanning speed per slide with 20X	2 min ¹
Scanning resolution with 100X	1.3 NA: 0.10 µm/px
Scanning resolution with 60X	0.85 - 1.25 NA2: 0.16 µm/px
Scanning resolution with 40X	0.75 - 1.3 NA2: 0.24 µm/px
Scanning resolution with 20X	0.5 NA: 0.48 µm/px
Slide capacity	25x75 mm (2 slides) or 50x75 mm (1 slide)
Z-Axis Resolution	25 nm
XY-Axis Resolution	78 nm
Z-Stacking	Yes
Software and Workstation	
Operating software	MicroPoint included
Viewer software	ViewPoint ³ included (unlimited users)
Storage	PC-based workstation and/or PreciCloud slide storage ⁴
Image analysis	Several software applications on request, based on customer needs
Computers	HP Z2 mini; Intel 3.6GHz i7 12core, 16GB RAM, NVIDIA 4GB GPU
Microscope computer connection	USB 3.0
Image output formats	PNG, JPEG, TIFF, BMP, VMIC, XLS, and many more
<i>RUO (intended for use in non-clinical laboratory research) Technical specifications subject to change without notice</i>	¹ Dependent on sample preparation, scan parameters and objectives; 15x15 mm ² Dependent on objective used ³ Free download of ViewPoint on www.precipoint.com ⁴ PreciCloud slide storage available from PreciPoint

PreciPoint - Made in Germany

German Engineering at its best

Since 1982, we have made more than 15,000 installations of diverse systems and devices all over the globe. They are produced in Germany and our solutions are made to the highest German engineering standards. Our key competence is the digitization of measurement and automation technology in the field of microscopy and micropositioning systems. The spectrum of our offers ranges from smart microscopes to automated testing systems with custom-made software and from microspectroscopy to x-y-stages. PreciPoint Fritz, M8, and O8 systems are manufactured by PreciPoint GmbH and distributed by Nikon Instruments Inc.

The PreciPoint product family

Fritz Microscope and Scanner



M8 Microscope and Scanner



O8 Oil Microscope and Scanner





At a glance

A comparison of the three PreciPoint systems

	Fritz Microscope and Scanner	M8 Microscope and Scanner	08 Oil Microscope and Scanner
Light	Transmitted Light; LED, Brightfield	Transmitted Light; LED, Brightfield	Transmitted Light; LED, Brightfield
Supported Objectives (Dry)	Nikon Plan Fluor Dry 20X, 40X	Nikon Plan Fluor Dry 20X, 40X, 60X	Nikon Plan Fluor Dry 20X, 40X, 60X
Supported Objectives (Oil)	N/A	N/A	Nikon Plan Fluor Oil 40X, 60X, 100X
Stitching	Automated	Live	Live
Dimensions	45x40x30 cm	45x40x30 cm	45x40x30 cm
Weight	25 kg	25 kg	25 kg
InstantScan Mode	No	Yes	Yes
Slide Capacity	25x75 mm (2 slides) or 50x75 mm (1 slide)	25x75 mm (2 slides) or 50x75 mm (1 slide)	25x75 mm (2 slides) or 50x75 mm (1 slide)
Z-Stacking	Yes	Yes	Yes

Discover the future of microscopy.
Book a demonstration today to see how the PreciPoint
can digitize and accelerate your workflow.

Shedding New Light On **HEALTHCARE**