



DIGITAL IMAGING MICROSCOPE

ECLIPSE UI

A REAL SOLUTION FOR DIGITAL PATHOLOGY

Live on-screen observation.

Nikon's new ECLIPSE Ui Digital Upright Microscope provides accurate microscopy-based pathology imaging. View and share high quality images in real time with easy to use software for a simpler workflow.

VIEW

Display high quality images while remaining simple to operate.

Sample images are monitored in real time. The quality is backed by Nikon's renowned imaging technology - clear color reproducibility without negative influence from ambient lights. Operator eye fatigue is greatly reduced as the need to look through conventional eyepieces is eliminated.

FAST

Immediate response for quicker workflow.

The system is operational in 2.5 seconds after loading a sample. Digital sample images can be observed live, plus magnification changes and XY movements can be quickly adjusted. It is also equipped with macro-imaging function and other sample-oriented applications.

USABILITY

User-friendly to promote operational efficiency.

The GUI (graphical user interface) is intended for easy identification and for efficient observation tasks. The functions needed to observe the sample images are arranged in an operator-friendly and efficient manner.

DAILY SUPPORT

Functions to support multiple use cases and applications.

The system is provided with three modes: routine specimen observation tasks, research*, and education*, and data sharing. Users can select their preferred imaging quality and speed. Automatic bar code linkage from slide to image ensures sample control.

* Not for use in diagnostic procedures.



DIGITAL IMAGING MICROSCOPE
ECLIPSE Ui

VIEW

Display high quality images while remaining simple to operate.

1 New category medical equipment for turning pathological samples digital.

The internal PC provides all the necessary functions and applications.



2 Images on the monitor screen for easy observation.

It is no longer necessary to sit for hours looking through microscope eyepieces. The images are shared onscreen, suitable for two or more people to discuss the samples.



3 Time-proven optical-mechanical performance of Nikon microscopes.

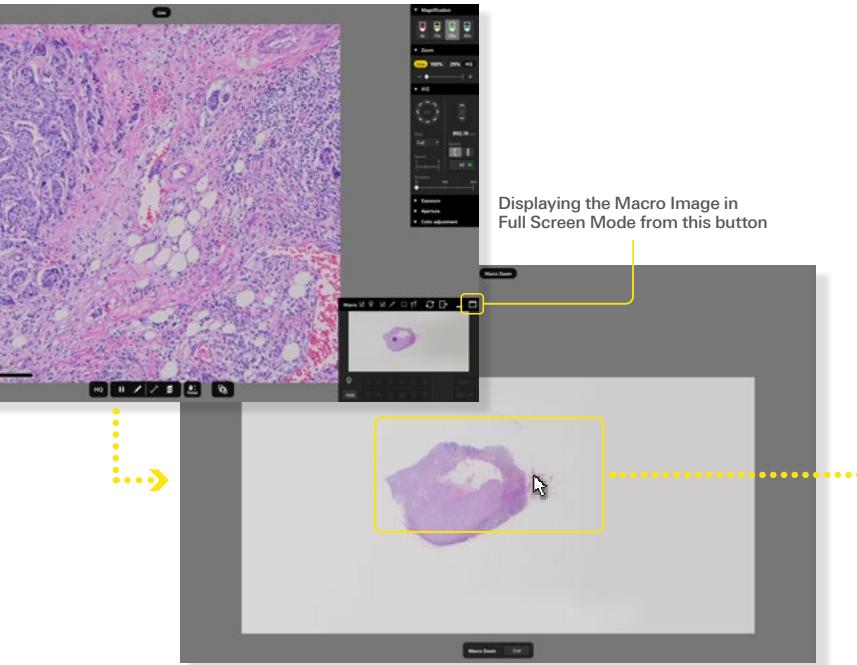
The CFI Plan Fluor series objectives are backed by Nikon's superior optical technology. Their transmittance and numerical aperture (resolving power) are acclaimed for their high standard.



4 High-quality macro images observable far and wide

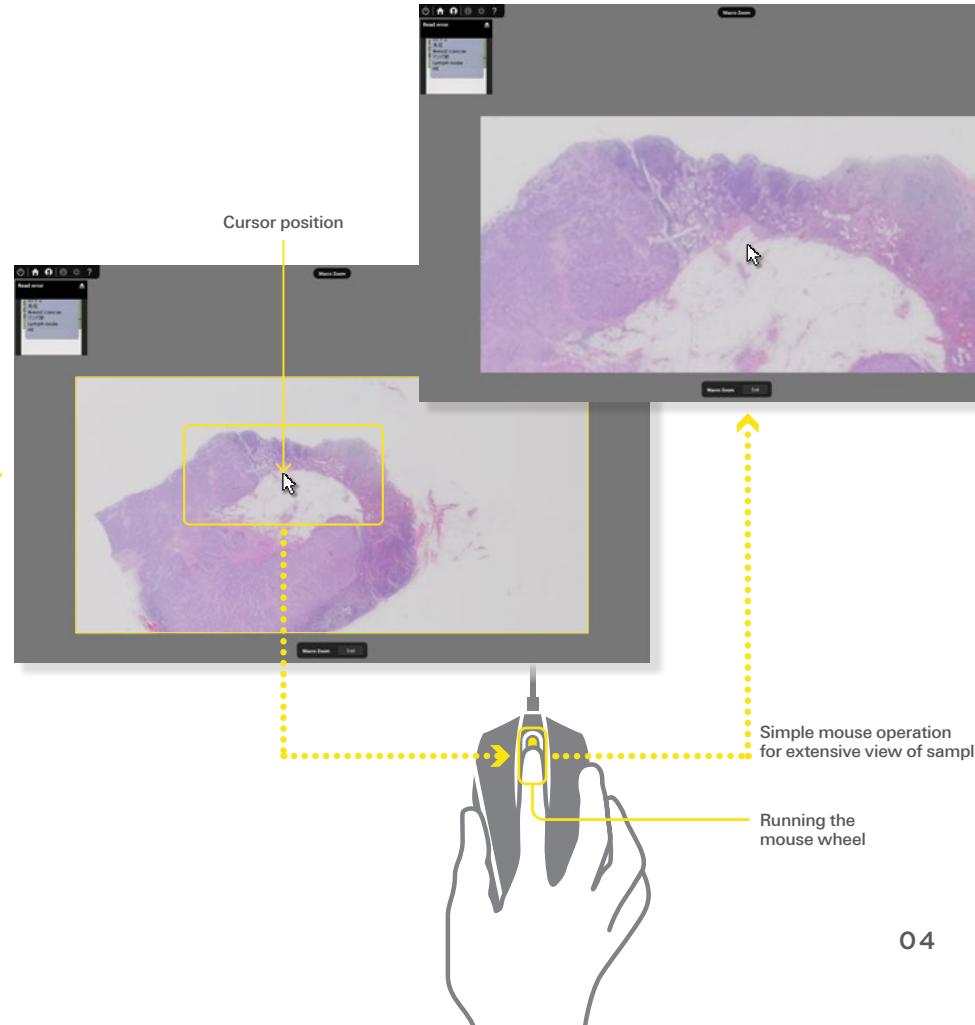
Samples can be entirely and extensively observed. And the positions, cell distributions and other factors of samples on slide can also be quickly checked*1.

In addition, the digital zoom function allows you to zoom in on the macro images for reliable observation.



1. Just run the mouse wheel to zoom in and out a cursor-pointed spot quickly.

2. In the high-quality mode, high-definition macro images*2 can be captured in 3 seconds. This helps confirm involved areas speedily and smartly.



*1 Macro images are intended to put samples in place. For diagnostic purposes, be sure to use the Live Image (micro image) with a 4x or higher objective lens.

*2 For details on image capture in the high-quality mode, refer to the Specifications on page 14.

FAST

Immediate response for quicker workflow.

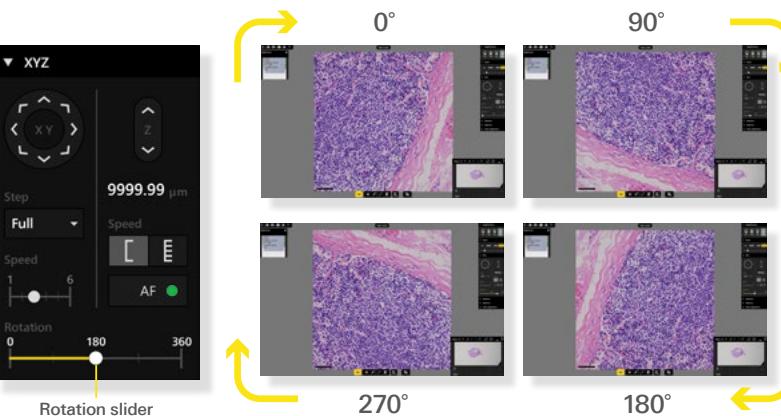
1 Operator-friendly.

A prepared slide with sample can be placed with one hand. Onscreen control for magnification changes, X-Y movement and focusing makes for efficient performance.



2 A sample can be observed in 2.5 seconds after being loaded.

Samples are loaded at the touch of a button and displayed on the monitor in 2.5 seconds.



3 Live Image rotatable onscreen

A Live Image can be turned 90-degrees for reliable observation.

STEP 01

Starting the system

- Press the Power button.
- Log in.
- Select an operating mode.

STEP 02

Preparations

- Place a prepared slide with sample on the holder.
- Press the Sample Load/Unload button.

STEP 03

Checking the entire image

- Check the sample ID information.
- Look at the macro-image to check the full view.
- Send the macro-image to the pathological system.
- Specify the area to observe on the macro-image.

STEP 04

Observing live

- Focus adjustment.
- Exposure adjustment.
- Send the macro-image to the pathological system.
- Refer to pp. 7-8 for details.

STEP 05

Observation complete

- Press the Sample Load/Unload button.

- Take out the prepared slide.

STEP 06

Shutting down the system

- Press the Power button.

4 Equipped for multiple applications.

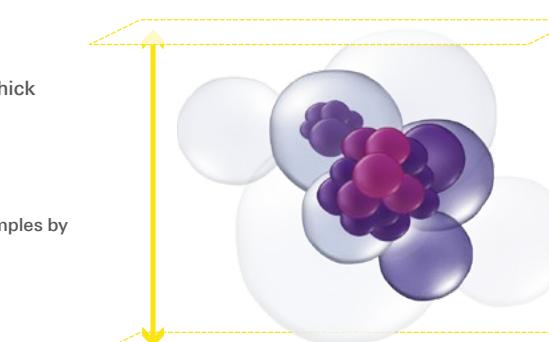
The system is designed to meet various use cases, such as thick sample observation and imaging.

Z-focus adjustment

The Z-focus can be quickly repositioned for thick or undulating samples by using the mouse scroll wheel or onscreen focus button.

Stepwise transfer

The stage can be successively shifted at a constant rate to enable convenient, multi-field observation. There are six speed settings for a wide range of scrolling applications.



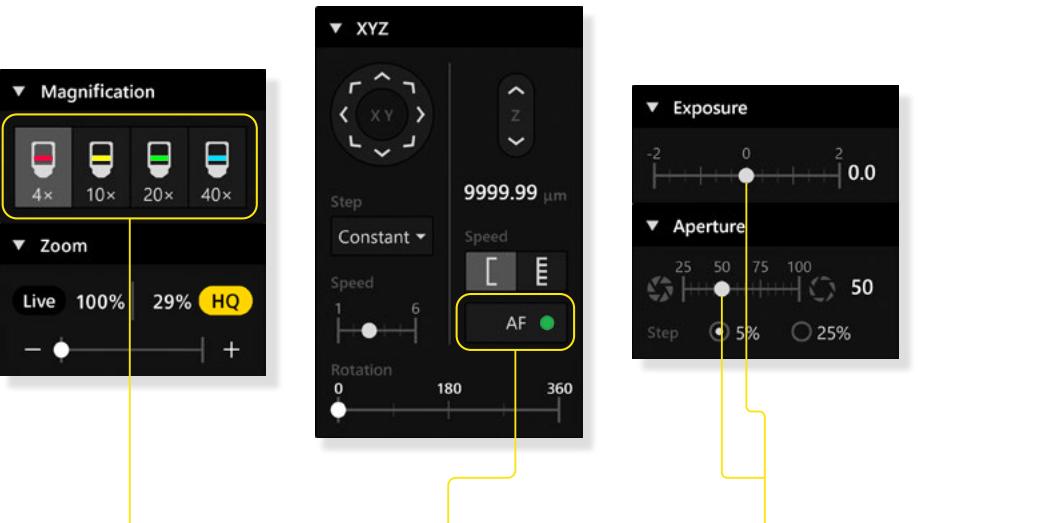
Thick samples can be easily observed using the scroll wheel or focus button.

USABILITY

To promote operational efficiency.

1 The system is equipped with the GUI for easy identification and for efficient observation tasks.

The functions needed to observe sample images are arranged in a user-friendly way. Simultaneously captured micro- and macro-images are displayed live.



Magnifications
changeable with the
touch of a button

Digital zoom-in/out available.

Easy Focus
function

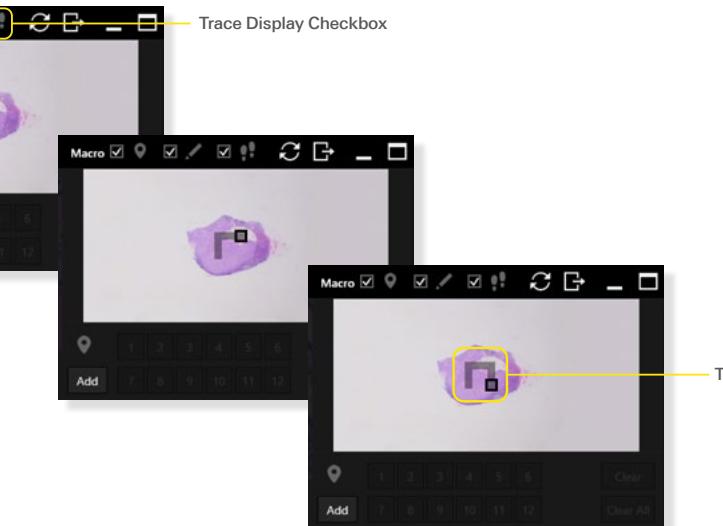
Equipped with the
auto-focus function. Focus
adjustment also possible
with the onscreen button AF
or the mouse wheel.

Brightness adjustment
with the slide bar

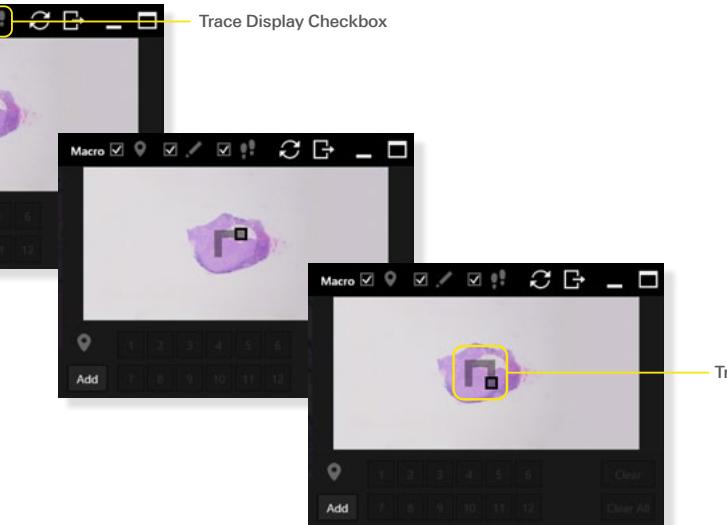
Exposure and aperture
adjustable by dragging the
slide bars onscreen to the
right or left.

2 Digital technology for better objectivity and consistency

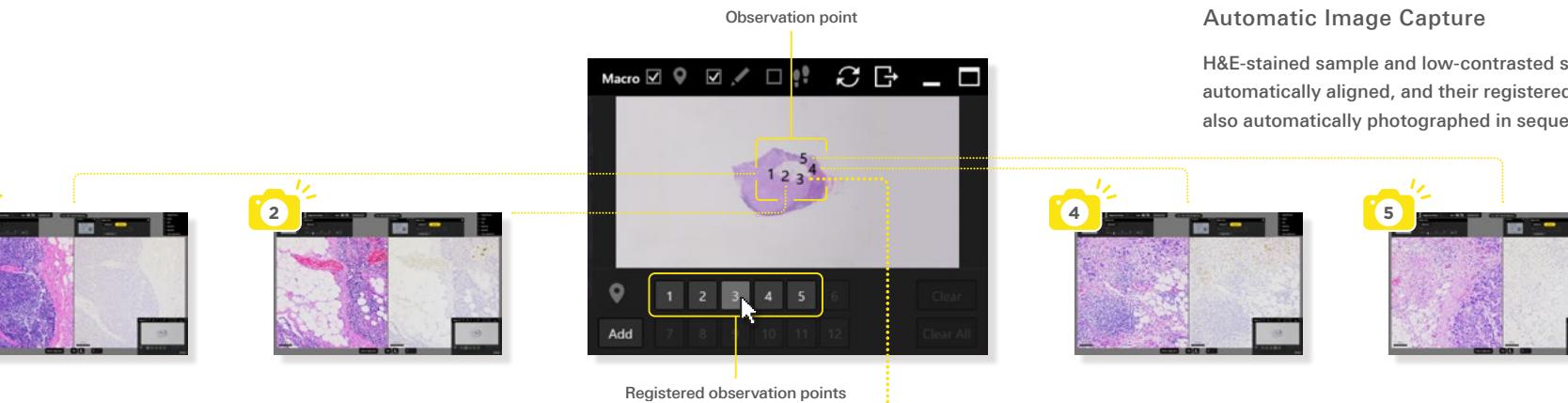
The functions unique to the ECLIPSE UI, such as tracing of already observed field of views and automatic alignment serve to observe samples more objectively and consistently.



Trace Display

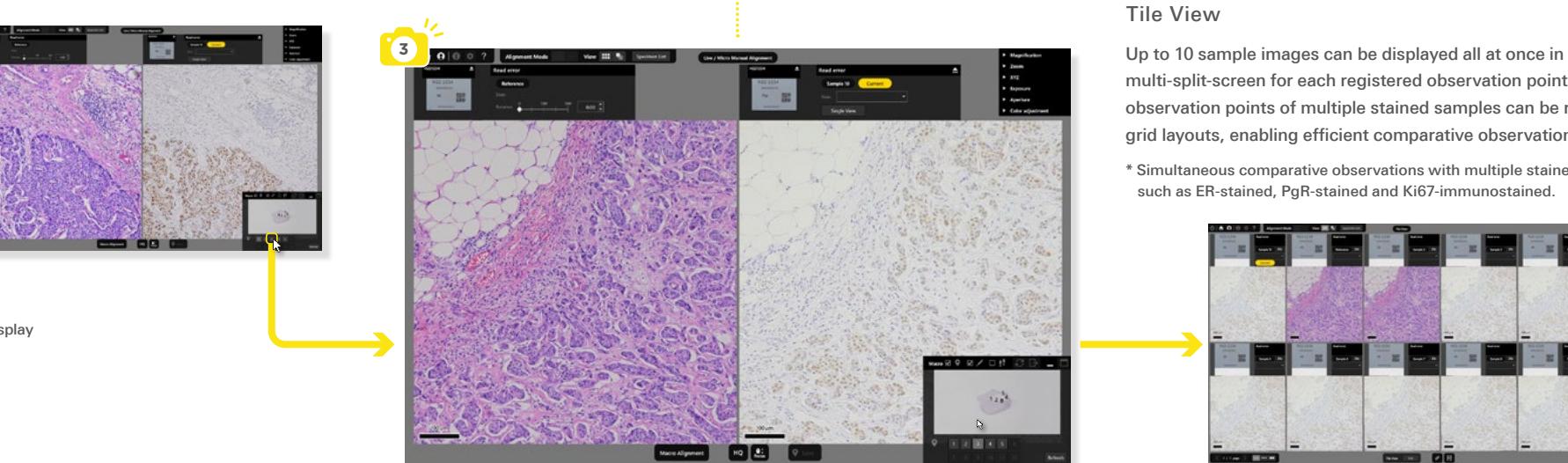


Trace Display



Automatic Image Capture

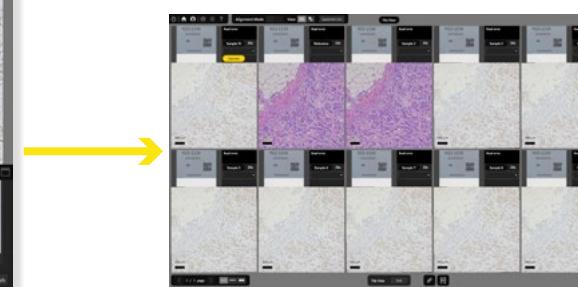
H&E-stained sample and low-contrasted stained sample are automatically aligned, and the registered observation points are also automatically photographed in sequence.



Tile View

Up to 10 sample images can be displayed all at once in the multi-split-screen for each registered observation point. The same observation points of multiple stained samples can be reviewed in grid layouts, enabling efficient comparative observation*.

* Simultaneous comparative observations with multiple stained samples, such as ER-stained, PgR-stained and Ki-67-stained.



Alignment Mode

Two samples of a tissue, differently stained, can be visualized side by side at a time. Comparative observations are now made easy and help pathologists double-check effectively. The two samples are automatically aligned using this feature. You can also readily navigate between the various target points with a single click.

DAILY SUPPORT

Functions for use cases, applications of images and sample control.

1 Mode selection to meet use cases.

Routine

In this mode, cytoscreening is supported. Sample images displayed live on the monitor screen are used for routine pathological image observation and successive observation. Images can also be transferred to pathological systems.

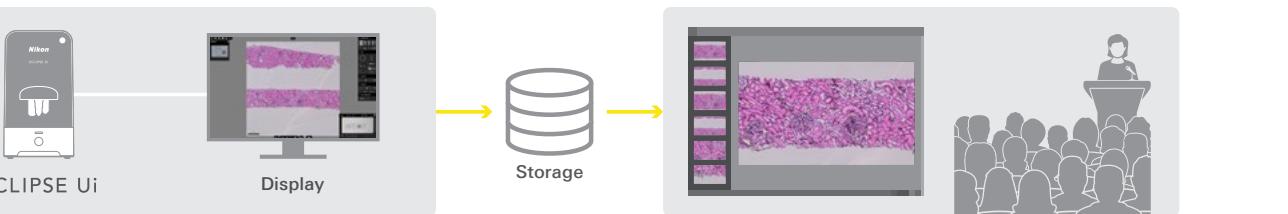


Research^{*1}

Data (sample images, observation spots, etc.) to share or discuss are saved in an external storage^{*2}. This data can be utilized for relevant studies and education.

*1: Not for use in diagnostic procedures.

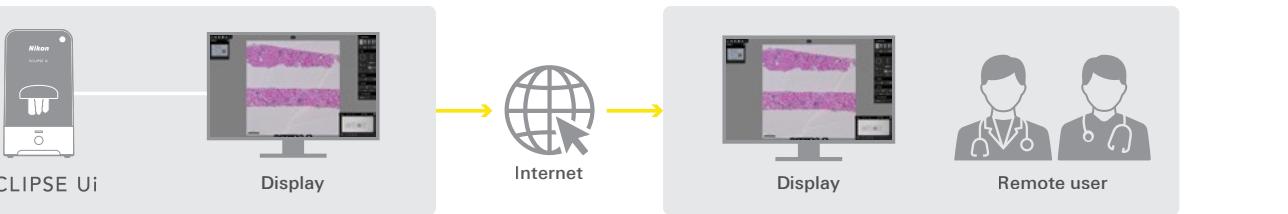
*2: Separately sold.



Remote

This mode allows remote user (users on contract) in remote locations to operate the system in real time. These users can also observe images^{*3}.

*3: Separate contract must be concluded for using the Remote mode. For communication environment, contact us.



2 Compact size and a well thought-out design.

The space-saving body measures 422 mm in height, 233 mm in width and 427 mm in depth. Ambient light does not affect images. The microscope is readily set up.



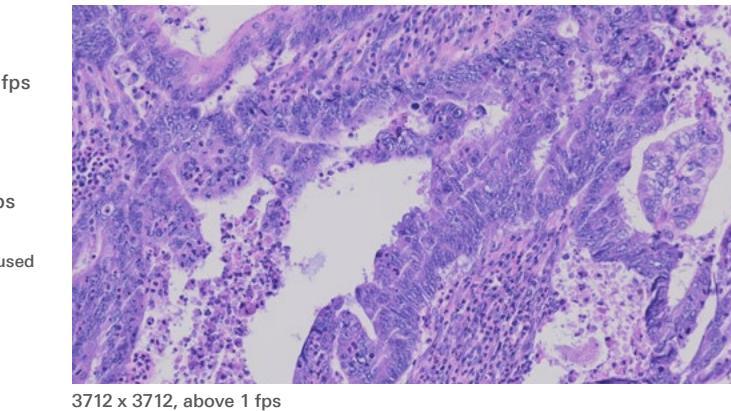
3 Different resolutions and frame rates to meet applications.

There are two types of image output: LIVE for immediate observation and evaluation, and High-Quality* for saving and storage.

LIVE
(Observation mode)
1080 x 1080, above 30 fps

High-Quality*
(Capture mode)
3712 x 3712, above 1 fps

* Saved images cannot be used for diagnostic purposes.



4 Bar code reading for efficient sample control.

Bar code and 2D code (QR code) are easily read. Sample numbers can also be displayed and saved. No more mixed-up samples.

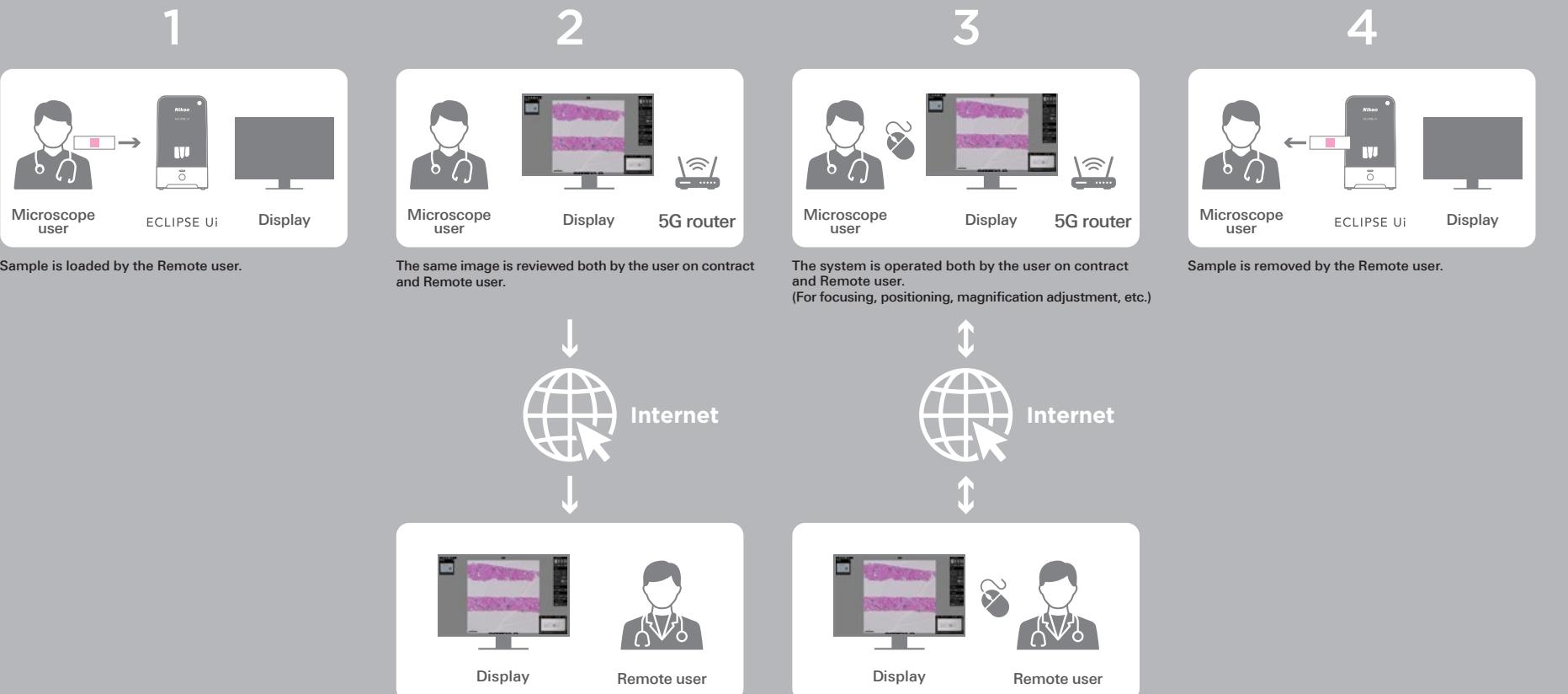


NETWORK ACCESS

Digital medical system compatible with network*

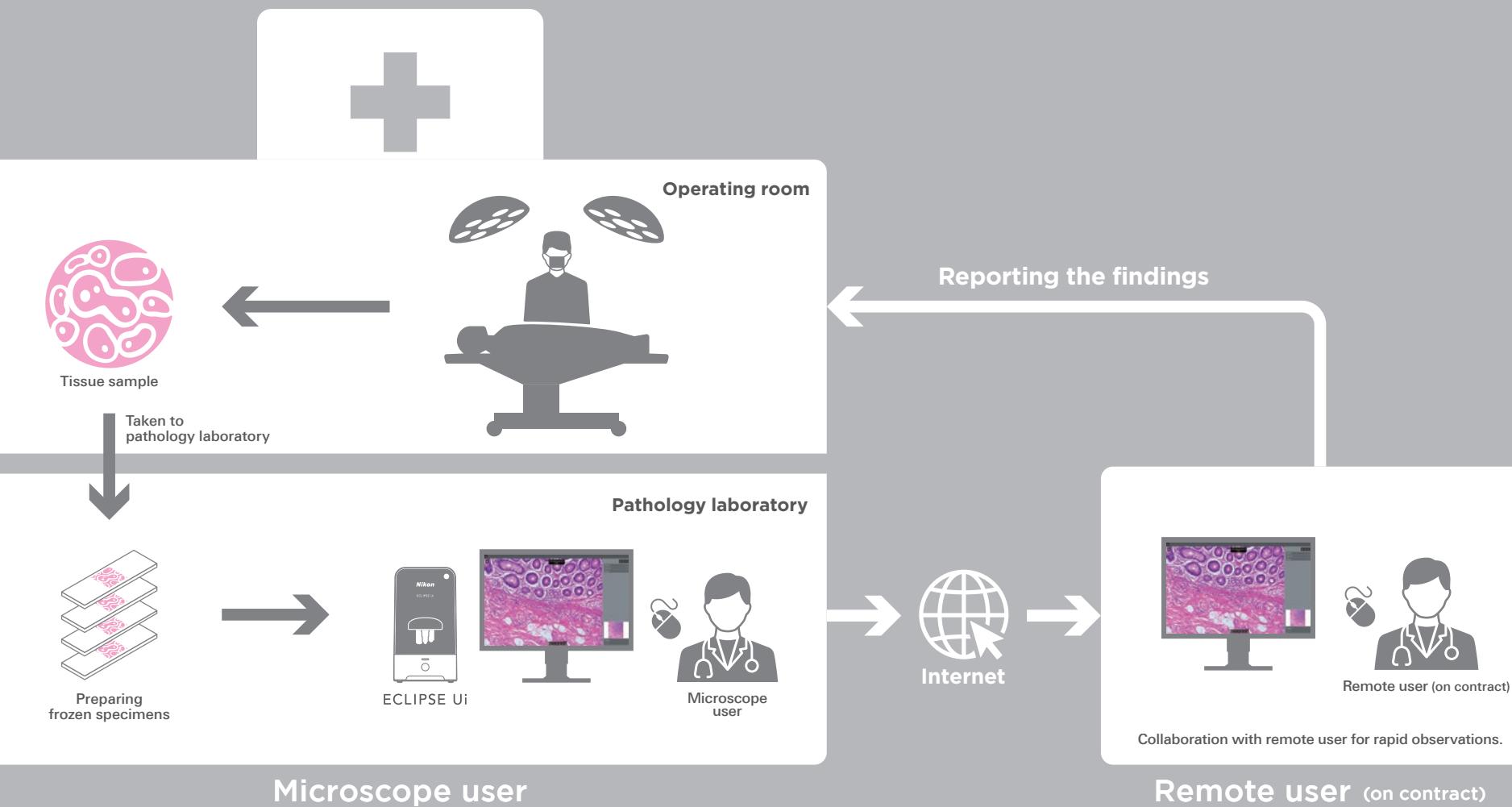
1 Data sharing through remote access.

Users (on contract) in remote locations may access and operate the system. Information and data are more widely shared, and medical treatment discussion gets easier. Immediate and accurate observation is now possible.



2 Example for rapid intraoperative diagnosis application.

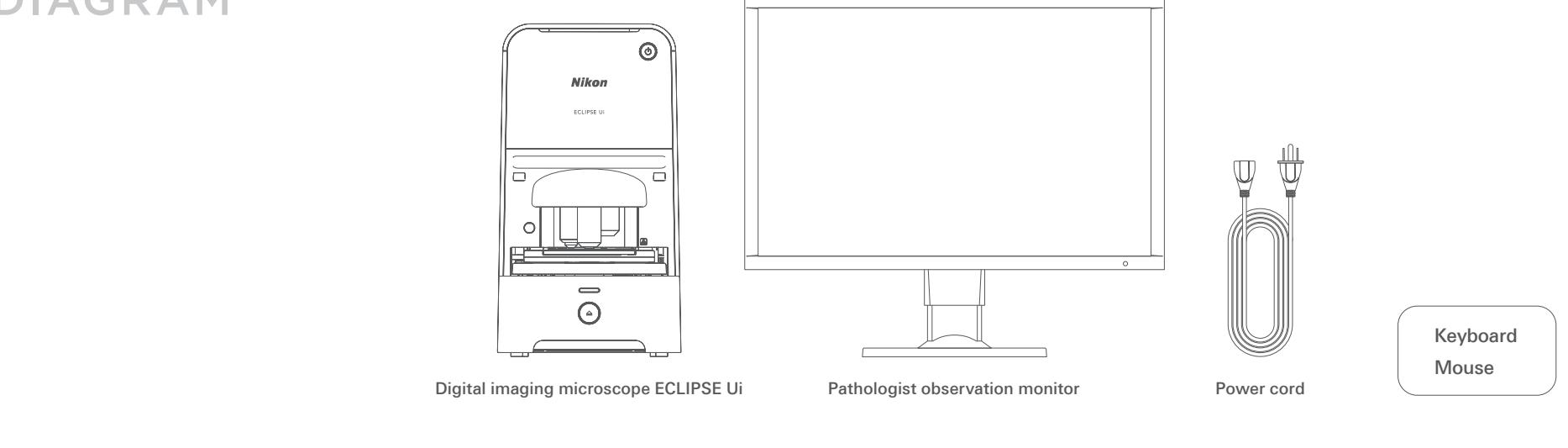
Frozen sections can be quickly observed from any remote location with the ECLIPSE UI.



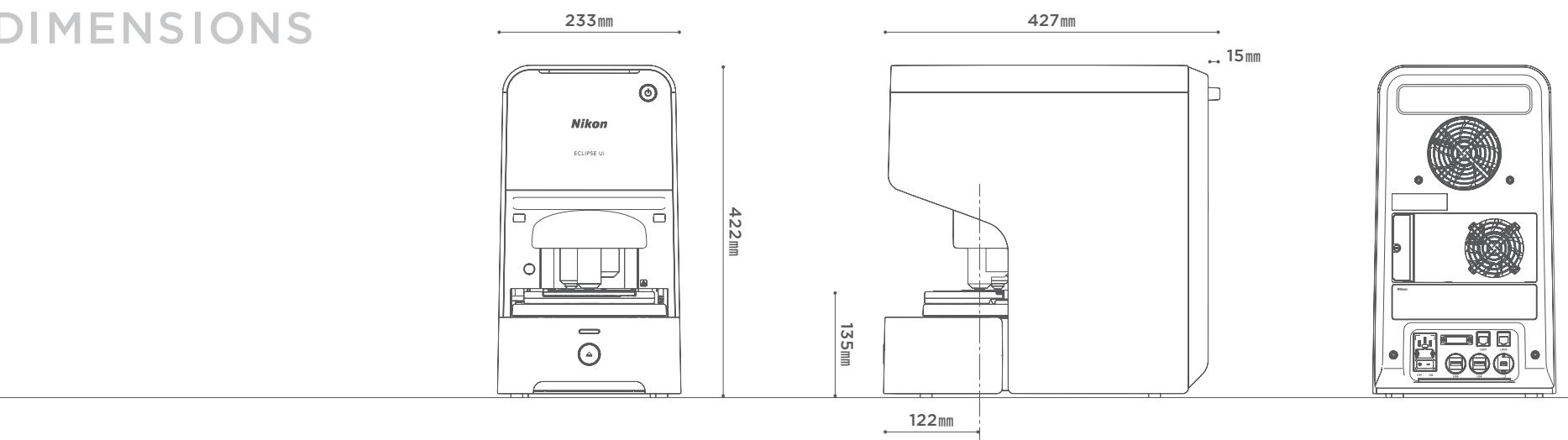
SPECIFICATIONS

System diagram and specifications

DIAGRAM



DIMENSIONS



SPEC

Model	ECLIPSE UI US / EU
Microscopy technique	Diascopic bright-field observation (Koehler illumination)
Observable specimens	One prepared slide Thickness: 0.9 to 1.7 mm (comprising the thickness of the slide glass, specimen, mounting medium, and cover glass) • Microscope slide (ISO8037 compliant) Thickness: 0.9 to 1.2 mm Size: 76 mm x 26 mm • Cover glass (ISO8255 compliant) Thickness: 0.17 mm Size: 18 to 60 mm x 18 to 25 mm * Do not use any other types of microscope slide and cover glass.
Observable range	Macro-image: Prepared slide all over (75 mm x 26 mm) Micro-image: Cover glass all over (60 mm x 25 mm or larger)
Optical system	Light source: High-intensity white LED (for macro- and micro-images) Number of fields of view: 22 Objectives: CFI Plan Fluor 4X, CFI Plan Fluor 10X, CFI Plan Fluor 20X, CFI Plan Fluor 40X
Motorized Function	Nosepiece movement, stage movement (incl. sample loading), objectives focus, aperture stop, sample holder clips open/close, macro/micro observation switching
Focus drive	Objectives vertical movement system Stroke: 10.3 mm Focusing speed (maximum): 0.7 mm/s or more
Stage	Stroke: X: 78 mm, Y: 28 mm Moving velocity (maximum): X: 85 mm/s, Y: 78 mm/s
Aperture diaphragm unit	Aperture diameter: Ø1.2 mm to Ø28.1 mm 25% to 100% Supported specimen
Barcode	2D barcodes: QR code, Data Matrix code 1D barcodes: CODE-128
Micro-imaging	X-Y staging: Half, Full, and Repeat (For Repeat, steps 1 to 6 can be selected for each objective.) Display modes: Live; 1080 x 1080 30 fps High-Quality; 3712 x 3712, 1 fps
Focus	Contrast AF, manual focus
Exposure compensation	-2 to +2 EV
Color adjustment	Contrast, Brightness, Saturation, Hue
Marking mode*	Point registration*: Registrable up to 12 points Maximum number of spots: 499 Spot size: 8px, 16px and 32px selectable

Measurement mode*	Line segment and length scale display between two points
Image capture*	Static macro image capture: 1330 x 460 Static micro image capture: Live; 1080 x 1080 High-Quality; 3712 x 3712 Z-stack image capture: Number of images: 1 to 21 Photographing interval: 0.5 to 5 µm Setting interval: 0.5 µm Macro (overall image of observed sample), micro (microscopic appearance)
Image storage format*	JPEG
Video capture format*	File format: MP4 Image capturing time: 10 minutes (maximum) Compression method: MPEG-Video Frame rate: 10 fps Resolution: 1080 x 1080
Remote operation	Video relay: AWS, WebRTC
External interface	LAN: GbE 1000 Mbps (two ports) USB: USB2.0 cable, Type A 480 Mbps (two ports) Mini Display port: Recommended monitor resolution 1920 x 1080
Operating system	Windows 10 IoT Enterprise LTSC 2019
Main body ratings	Input ratings: AC100-40 V ±10%, 5/60 Hz Maximum power consumption: 170 W
Power cord	• For use in a 100 - 120 VAC region outside Japan: UL-listed detachable cord set, 3-conductor grounding (3-conductor grounding, Type SVT, No. 18 AWG, maximum length 3 m, Plug Type NEMA5-15P, rated at 125 VAC minimum) • For use in a 220-240 VAC region: EU/EN listed detachable cord set, 3-conductor grounding (3-conductor grounding, Type H05VV-F 3 x 0.75 mm ² , maximum length 3 m, rated at 250 VAC minimum) • For use in Japan: PSE approved detachable cord set, 3-conductor grounding (3-conductor grounding, Type VCTF 3 x 0.75 mm ² , maximum length 3 m, rated at 125 VAC minimum))

* Not for use in diagnostic procedures.

This product complies with the requirements of Regulation (EU) 2017/746 concerning in vitro diagnostic medical devices. Please contact your local distributors or in-country representative for product availability in the country concerned.

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Nikon Microscope Systems and Services for Life Science Research



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