

DIGITAL IMAGING MICROSCOPE ECLIPSE Ui

A REAL SOLUTION FOR DIGITAL PATHOLOGY

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.

FAST

Immediate response for quicker workflow.

USABILITY

User-friendly to promote operational efficiency.

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.

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.

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.



Live on-screen observation.

Display high quality images while remaining simple to operate.

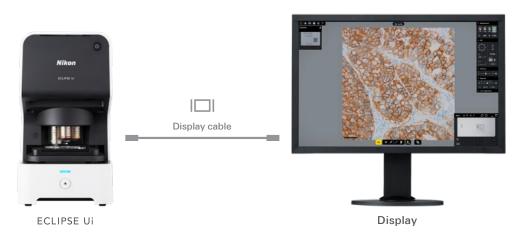
expertise.

adjustable.

New category medical equipment for turning pathological samples digital.

The internal PC provides all the necessary functions and applications.

VIEW



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.

5 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.





03

Nikon's renowned imaging

Images are easy to observe while afterimages are minimized. Nikon's imaging techniques ensure color reproducibility. Scrolling is smooth and fast and the brightness and color tones are

EAS Immediate response for quicker workflow.

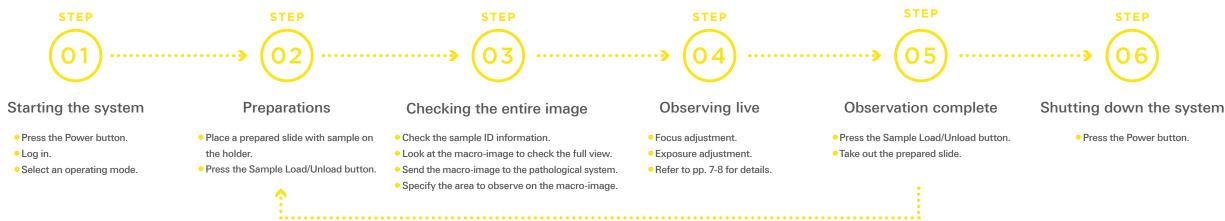
Operator-friendly.

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.









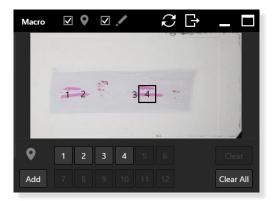


A sample can be observed in 2.5 seconds after being loaded.

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

The macro-imaging function is available for overviewing samples.

A sample is captured for a macro-image together with the target location. They are displayed along with the stage. Using the overview, the region in question can be observed. That site can be marked on the spot and the preset monitoring location can be recalled with just one click. The macro-image displayed may be saved as required.



Equipped for multiple applications.

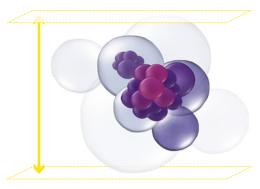
The system is designed to meet various use cases, such as thick sample observation and imaging.

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.



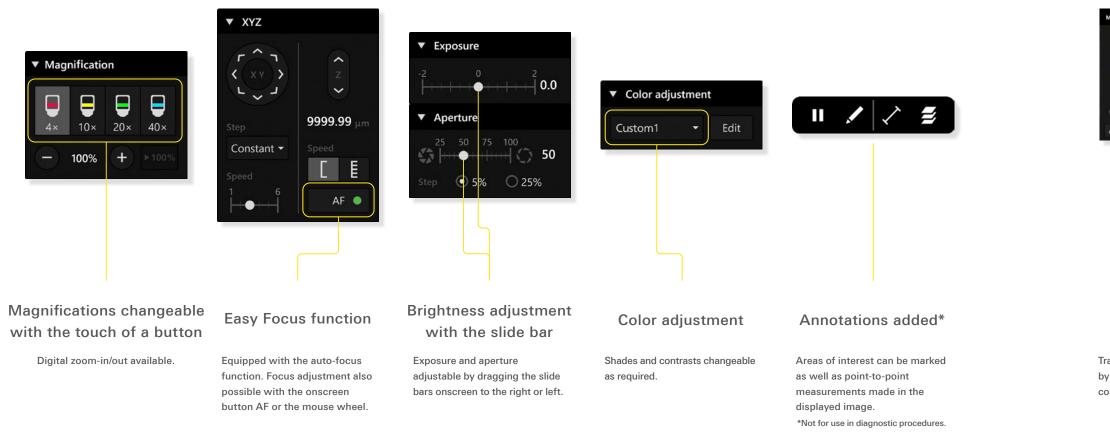
Thick samples can be easily observed using the scroll wheel or focus button.

06

USAB TY To promote operational efficiency.

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.



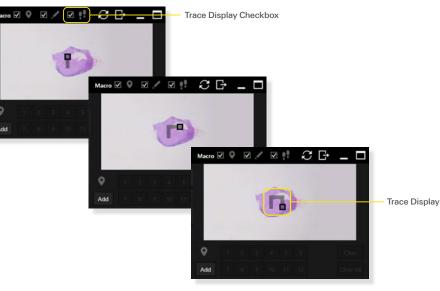
Digital technology for better objectivity and consistency

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.



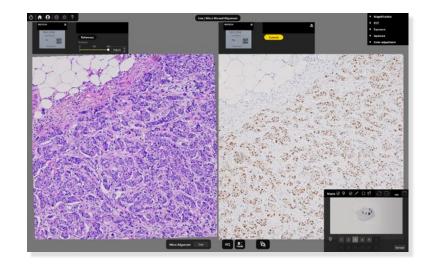
Observation point

Registered observation points



Trace Display

Trace Display shows which areas in the sample were previously viewed - indicated by a slight shading in the macro image. This helps more efficient observation and contributes to preventing oversight of critical areas.



Alignment Mode

Serial sections of differently stained tissues can be automatically aligned using this feature. The same user-defined target areas can be visualized side by side on two samples at a time - eliminating the need to remember and manually find critical observation points. You can easily navigate between the various target points with a single click.

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

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^{**}

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.





233mm



Compact size and a well though-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.

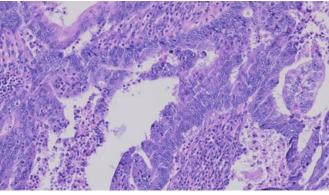


5 Different resolutions and frame rates to meet applications.

There are two types of image output: LIVE for immediate observation and eveluation, 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



3712 x 3712, above 1 fps

A Bar code reading for efficient sample control.

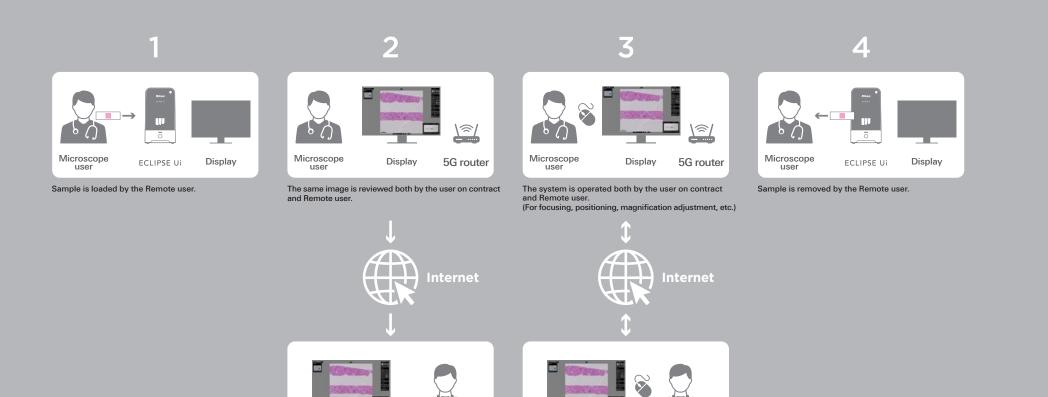
Bar code and 2D code (QR code) are easily read. Sample numbers can also be displayed and saved. No more mixed-up samples.



NETWORK ACCESS

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



Display

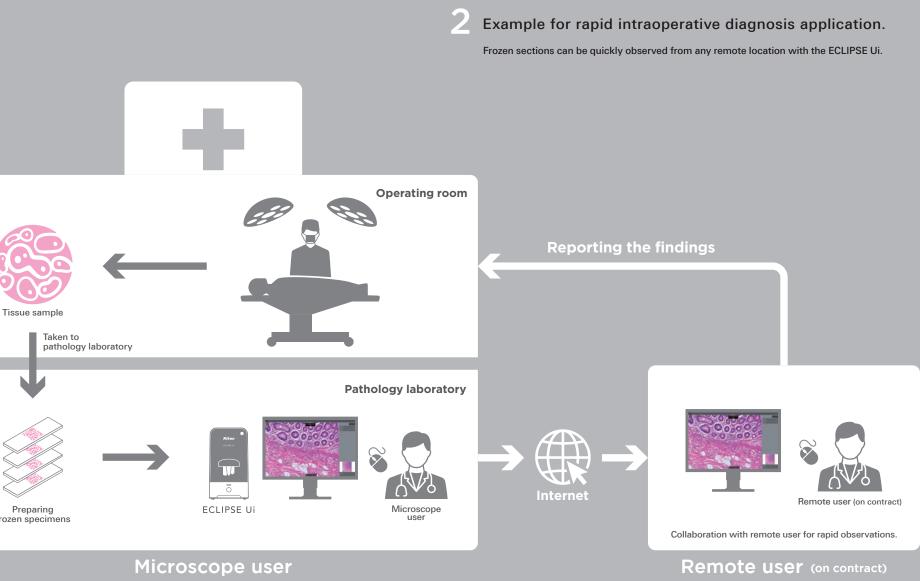
Remote user

Preparing frozen specimens

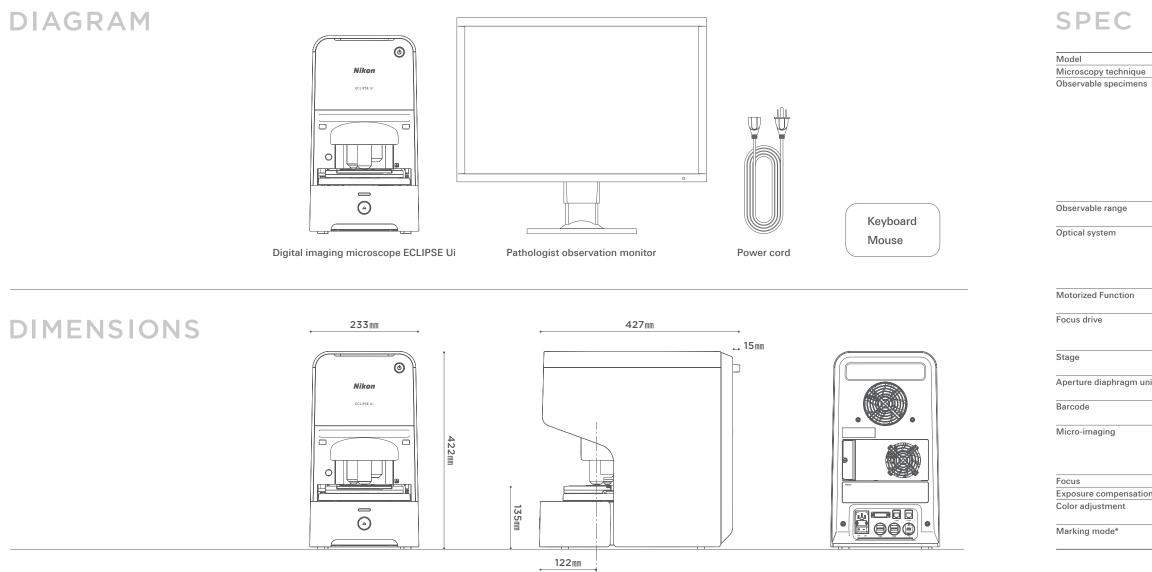
Display

Remote user

Digital medical system compatible with network^{*}



SPECIFICATIONS System diagram and specifications



	ECLIPSE Ui US / EU		
	Diascopic bright-field observat	tion (Koehler illumination)	
6	One prepared slide		
	Thickness: 0.9 to 1.7 mm (co	omprising the thickness of the slide glass,	
	specimen, mounting medium	n, and cover glass)	
	Microscope slide (ISO8037 compliant)		
	Thickness: 0.9 to1.2 mm		
	Size: 76 mm x 26 mm		
	Cover glass (ISO8255 compliant)		
	Thickness: 0.17 mm		
	Size: 18 to 60 mm x 18 to 25	ō mm	
	* Do not use any other types of	of microscope slide and cover glass.	
	Macro-image:	Prepared slide allover (75 mm x 26 mm)	
	Micro-image:	Cover glass allover (60 mm x 25 mm or larger)	
	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	
	Nosepiece movement, stage n	novement (incl. sample loading), objectives focus,	
		clips open/close, macro/micro observation switching	
	Objectives vertical movement		
	Stroke:	10.3 mm	
	Focusing speed (maximum):	0.7 mm/s or more	
	Stroke:	X; 78 mm, Y; 28 mm	
-	Moving velocity (maximum):	X: 85 mm/s, Y: 78 mm/s	
nit	Aperture diameter:	Ø1.2 mm to Ø28.1 mm	
		25% to 100%Supported specimen	
	2D barcodes:	QR code, Data Matrix code	
	1D barcodes:	CODE-128	
	X-Y staging:	Half, Full, and Repeat (For Repeat, steps 1 to 6 can	
	D : 1	be selected for each objective.)	
	Displaymodes:	Live; 1080 x 1080 30 fps	
	0	High-Quality; 3712 x 3712, 1 fps	
	Contrast AF, manual focus		
on	-2 to +2 EV	un Haun	
	Contrast, Brightness, Saturatio		
	Point registration*:Registrable	499	
	Maximum number of spots: Spot size:		
	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-stackimage capture:	Number of images:	1 to 21	
		Photographing interval:	0.5 to 5 µm	
		Setting interval;	0.5 μm	
	Images:	Macro (Overall image of o	observed sample),	
		micro (Microscopic appea	arance)	
Image storage format*	JPEG			
Video capture format*	File format:	MP4		
	Image capturing time:	10 minutes (Maximum)		
	Compression method:	MPEG-4 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 1200	
Operating system	Windows 10 IoT Enterprise LTSC 2019			
Main body ratings	Input ratings:	AC100-240 V±10%, 50/60 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 1 mm2, 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 mm2, maximum length 3 m, rated at 125 VAC minimum))			
		* Not for use	in diagnostic procedure	

Specifications and equipment are subject to change without any notice or obligation on the part of the manufacturer.

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