

Nikon Healthcare

ISO 14001 Certified

for NIKON CORPORATION

Business Unit website

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Monitor images are simulated.

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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.



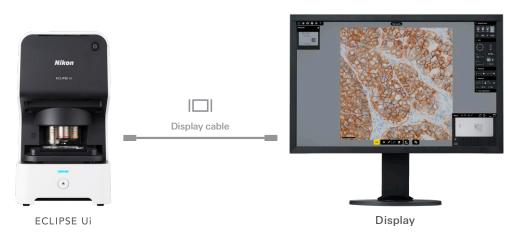
Live on-screen diagnosis.

VIEW

Display high quality images while remaining simple to operate.

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.

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

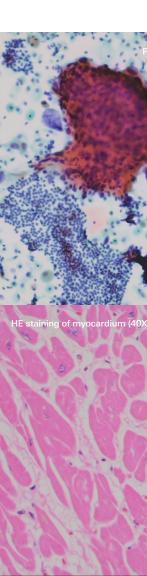
The CFI Plan Fluor series objectives are backed by Nikon's superior optical technology. Their transmittance and numerical aperture (resolving power) are acclaimed for their high standard.





Nikon's renowned imaging expertise.

adjustable.



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

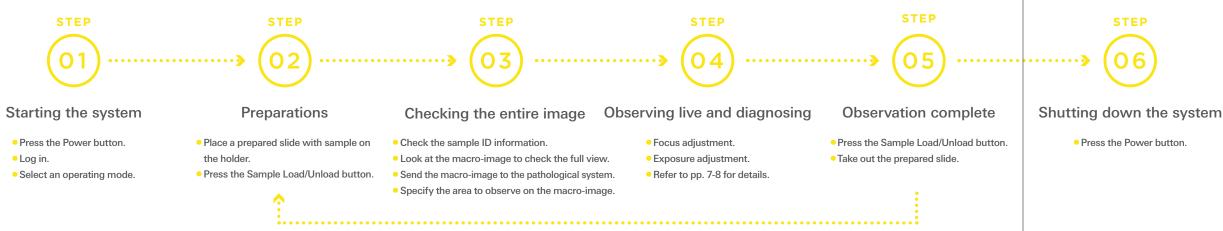
EAST Immediate response for quicker workflow.

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.





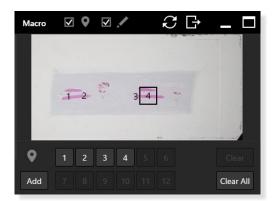


A sample can be observed in 2.5 seconds after being loaded.

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 with various support functions.

The system is designed to meet various use cases, such as Thick sample observation and recording, and successive observation.

Z-stack function*

The Z-stack function enables to observing and recording images that are thick, undulating or disperse in the Z axis. *Not for use in diagnostic procedures.

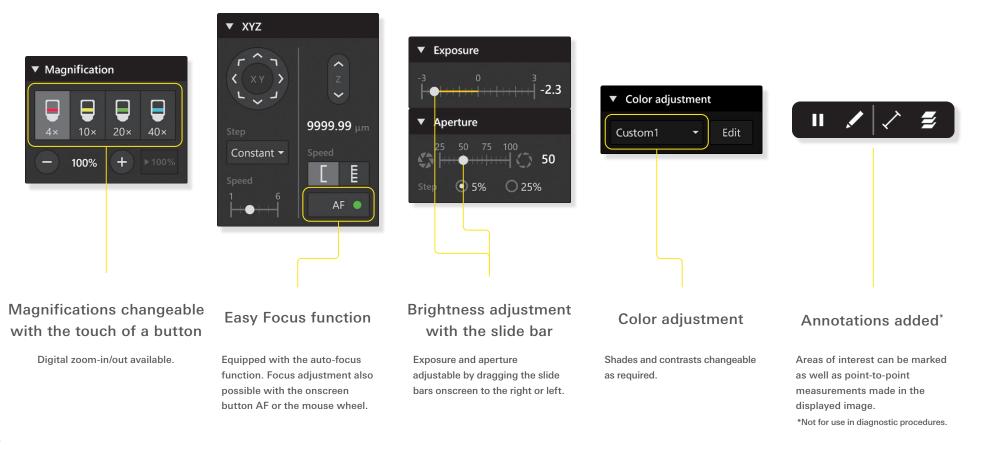
Stepwise transfer

For convenient successive observation, the stage can be shifted at a constant rate. This step-by-step function has been developed with less afterimage in mind. Six speed settings can be preset for suitable scrolling.

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.







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.

W ECLIPSE Ui Display

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

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.

*1: Not for use in diagnostic procedures.

*2: Separately sold.

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





233mm



2 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.

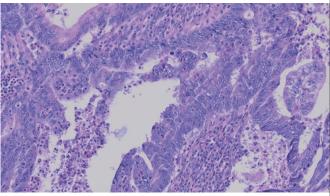


5 Different resolutions and frame rates to meet applications.

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.

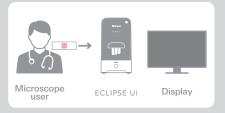


NETWORK ACCESS

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.

* For this function, separate contract must be concluded for using the Remote mode. * For communication environment, contact us. * Not for use in diagnostic procedures.

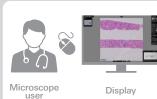


Sample is loaded by the Remote user.



Microscope user Display 5G router

The same image is reviewed both by the user on contract and Remote user. User on contract.



5G router

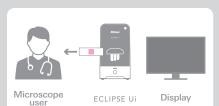
The system is operated both by the user on contract and Remote user. (For focusing, positioning, magnification adjustment, etc.)





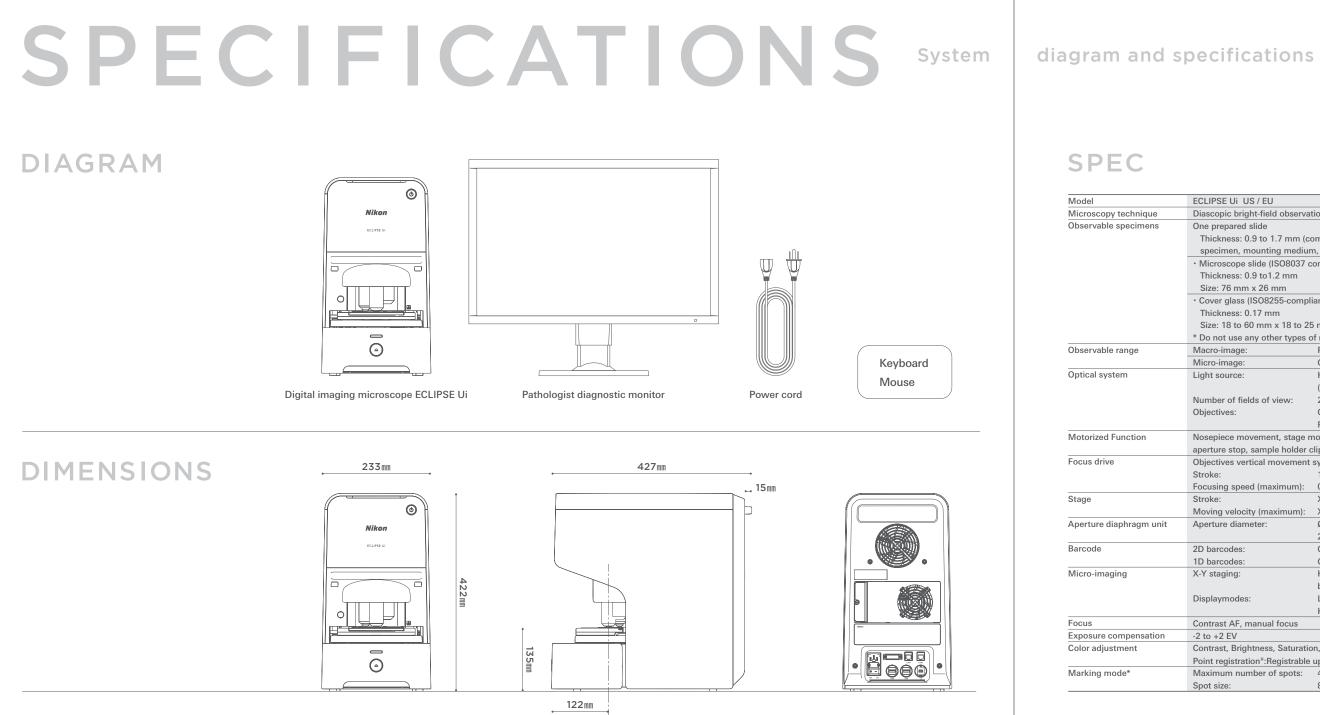


Display Remote user



Sample is removed by the Remote user.





	ECLIPSE Ui US / EU		
•	Diascopic bright-field observation (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-compli	iant)	
	Thickness: 0.17 mm		
	Size: 18 to 60 mm x 18 to 25	5 mm	
	* Do not use any other types o	f 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,	
	1 12 1	lips 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	
		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	- 11	
	Contrast, Brightness, Saturatio		
	Point registration*:Registrable	499	
	Maximum number of spots:		
	Spot size:	8px, 16px and 32px selectable	

Line segment and length scale	display between two points		
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 observed sample),		
micro (Microscopic appearance)			
JPEG			
File format:	MP4		
Image capturing time:	10 minutes (Maximum)		
Compression method:	MPEG-4 Video		
Frame rate:	10 fps		
Resolution:	1080 x 1080		
Video relay:	AWS, WebRTC		
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	
Windows 10 IoT Enterprise LTSC 2019			
Input ratings:	AC100-240 V±10%, 50/60) Hz	
Maximum power consumption	: 170 W		
• For use in a 100 - 120 VAC region outside Japan:			
UL-listed detachable cord set, 3-conductor grounding			
(3-conductor grounding, Type	e SVT, No. 18 AWG, maximu	um length 3 m,	
		um length 3 m,	
(3-conductor grounding, Type	at 125 VAC minimum)	ım length 3 m,	
(3-conductor grounding, Type Plug Type NEMA5-15P, rated	at 125 VAC minimum) ion:	<u> </u>	
(3-conductor grounding, Type Plug Type NEMA5-15P, rated • For use in a 220-240 VAC reg	at 125 VAC minimum) ion: set, 3-conductor grounding		
(3-conductor grounding, Type Plug Type NEMA5-15P, rated • For use in a 220-240 VAC reg EU/EN listed detachable cord	at 125 VAC minimum) ion: set, 3-conductor grounding		
 (3-conductor grounding, Type Plug Type NEMA5-15P, rated For use in a 220-240 VAC reg EU/EN listed detachable cord (3-conductor grounding, Type 	at 125 VAC minimum) ion: set, 3-conductor grounding		
 (3-conductor grounding, Type Plug Type NEMA5-15P, rated For use in a 220-240 VAC reg EU/EN listed detachable cord (3-conductor grounding, Type rated at 250 VAC minimum) 	at 125 VAC minimum) ion: set, 3-conductor grounding a H05VV-F 1 mm2, maximur	n length 3 m,	
 (3-conductor grounding, Type Plug Type NEMA5-15P, rated For use in a 220-240 VAC reg EU/EN listed detachable cord (3-conductor grounding, Type rated at 250 VAC minimum) For use in Japan: 	at 125 VAC minimum) ion: set, 3-conductor grounding a H05VV-F 1 mm2, maximur d set, 3-conductor groundin	n length 3 m,	
	Static macro image capture: Static micro image capture: Static micro image capture: Z-stackimage capture: Images: JPEG File format: Image capturing time: Compression method: Frame rate: Resolution: Video relay: LAN: USB: Windows 10 IoT Enterprise LTS Input ratings: Maximum power consumption • For use in a 100 - 120 VAC re	Static micro image capture: Live; High-Quality; Z-stackimage capture: Number of images: Photographing interval; Setting interval; Images: Macro (Overall image of or micro (Microscopic apper JPEG File format: File format: MP4 Image capturing time: 10 minutes (Maximum) Compression method: MPEG-4 Video Frame rate: 10 fps Resolution: 1080 x 1080 Video relay: AWS, WebRTC LAN: GbE 1000 Mbps (two ports) USB: USB: USB2.0 cable, Type A 480 Mbps (two ports) Mini Display port: Windows 10 IoT Enterprise LTSC 2019 Input ratings: AC100-240 V±10%, 50/60 Maximum power consumption: 170 W • For use in a 100 - 120 VAC region outside Japan:	