



DIGITAL IMAGING MICROSCOPE

**ECLIPSE** **Ui**

FOR CLINICAL USE

# SPEC

Model	ECLIPSE U1 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 (ISO2555-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 allover (75 mm x 26 mm)
	Micro-image:	Cover glass allover (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.)
	Displaymodes:	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 Point registration*: Registrable up to 12 points	

Marking mode*	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-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)
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	<ul style="list-style-type: none"> <li>• 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 NEMA15-15P, rated at 125 VAC minimum)</li> <li>• 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)</li> <li>• 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))</li> </ul>

\* Not for use in diagnostic procedures.

Specifications and equipment are subject to change without any notice or obligation on the part of the manufacturer.  
February 2026 ©2026 NIKON CORPORATION



TO ENSURE CORRECT USAGE, READ THE CORRESPONDING MANUALS CAREFULLY BEFORE USING YOUR EQUIPMENT.

Monitor images are simulated.

Company names and product names appearing in this brochure are their registered trademarks or trademarks.

N.B. Export of the products\* in this brochure is controlled under the Japanese Foreign Exchange and Foreign Trade Law.

Appropriate export procedure shall be required in case of export from Japan.

\*Products: Hardware and its technical information (including software)



Nikon Healthcare  
Business Unit website



**NIKON CORPORATION**

Head office / Manufacturer  
1-5-20, Nishioi, Shinagawa-ku, Tokyo 140-8601, Japan  
<https://www.healthcare.nikon.com/en>

ISO 14001 Certified  
for NIKON CORPORATION

**Nikon Instruments Inc.**  
1300 Walt Whitman Road, Melville, N.Y. 11747-3064, U.S.A.  
phone: +1-631-547-8500; +1-800-52-NIKON (within the U.S.A. only)  
fax: +1-631-547-0299A  
<https://www.microscope.healthcare.nikon.com/>

**Nikon Europe B.V.**  
Stroombaan 14, 1181 VX Amstelveen, The Netherlands  
phone: +31-20-7099-000  
[https://www.microscope.healthcare.nikon.com/en\\_EU/](https://www.microscope.healthcare.nikon.com/en_EU/)

**Nikon Canada Inc.**  
CANADA phone: +1-905-625-9910 fax: +1-905-602-9953  
**Nikon France, Succursale de Nikon Europe B.V.**  
FRANCE phone: +33-1-4516-4516  
**Nikon Deutschland, Zweigniederlassung der Nikon Europe B.V.**  
GERMANY phone: +49-211-9414-888  
**Nikon Italy, Branch of Nikon Europe B.V.**  
ITALY phone: +39-055-300-9601  
**Nikon Europe B.V., Amstelveen, Zweigniederlassung Schweiz (Egg/ZH)**  
SWITZERLAND phone: +41-43-277-2867  
**Nikon UK, Branch of Nikon Europe B.V.**  
UNITED KINGDOM phone: +44-208-247-1717

**Nikon Österreich, Zweigniederlassung der Nikon Europe B.V.**  
AUSTRIA phone: +43-1-972-6111  
**Nikon Australia Pty Ltd**  
AUSTRALIA phone: +61-2-8767-6900  
**Nikon Instruments Korea Co., Ltd.**  
KOREA phone: +82-2-6288-1900 fax: +82-2-555-4415  
**Nikon India Private Limited**  
INDIA phone: +91-124-4688-500