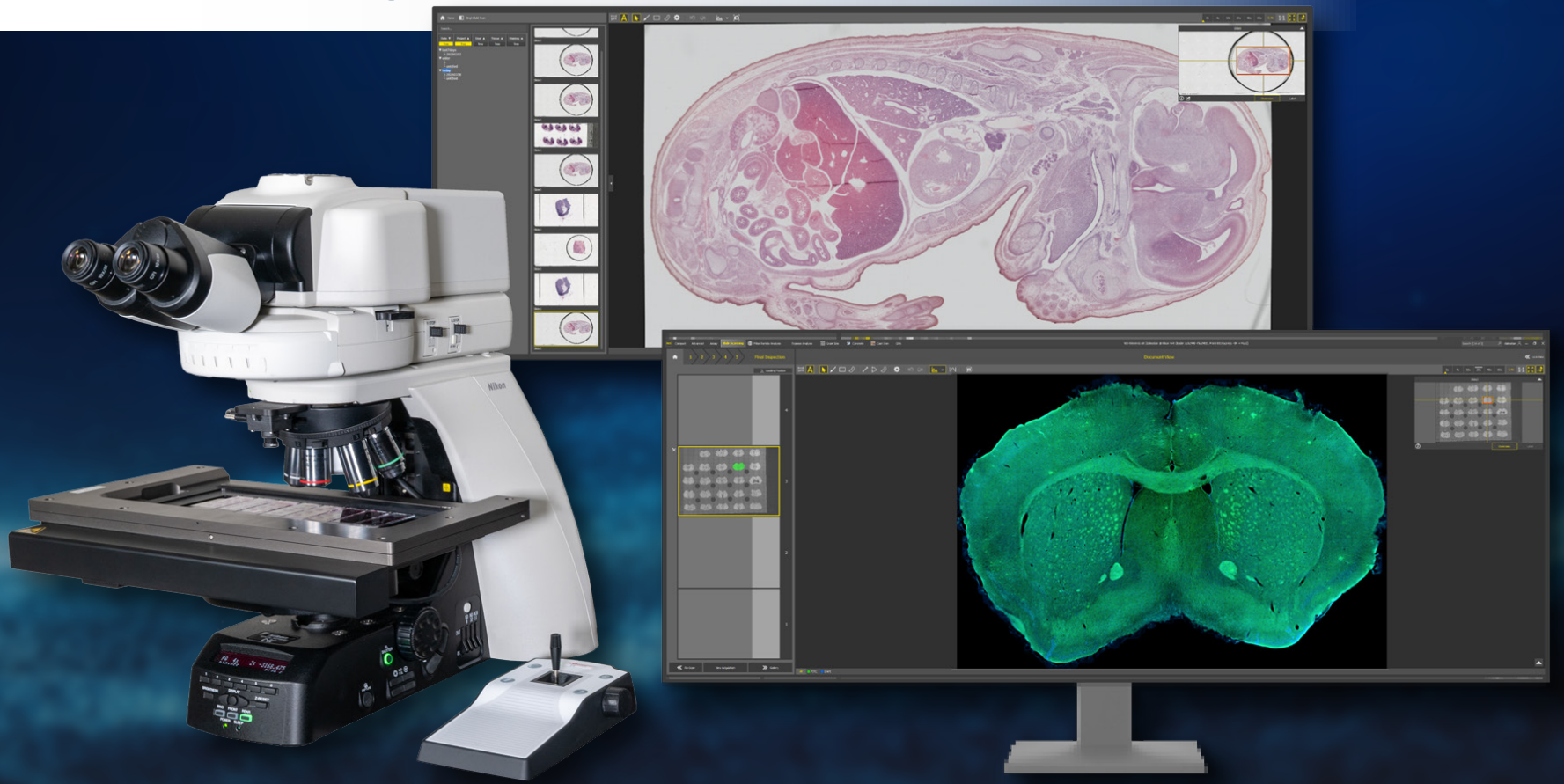
Imaging Software

NIS Elements

Advanced Solutions for your Imaging World

Nikon

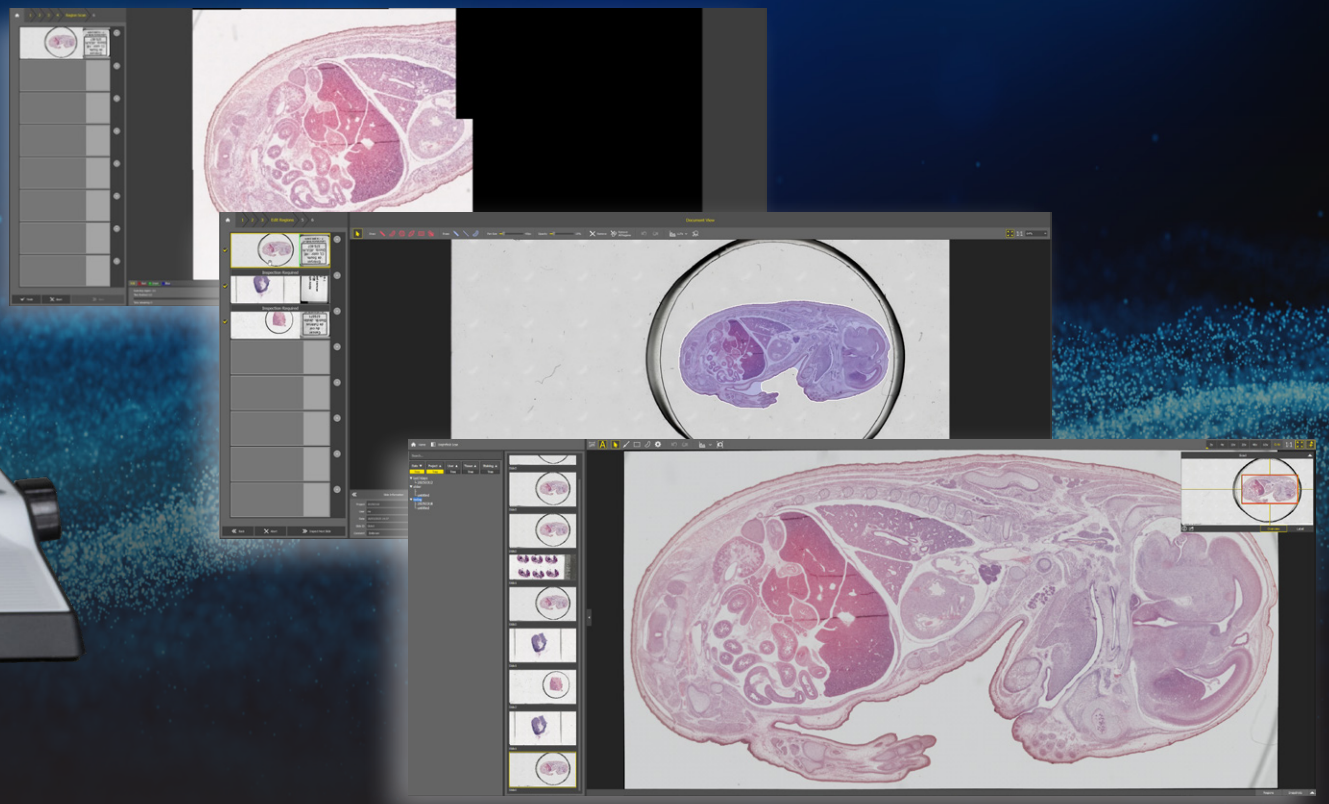
Slide Scanning Module



Slide scanning made easy without compromising on optical quality.

The new slide scanning solution from Nikon brings together the best of both worlds: a user friendly, yet extremely powerful software module that has been developed for robust, reliable hardware.

Using the ECLIPSE Ni-E microscope in combination with the brand new NIS-Elements Slide Scanning module, finally there is no need to sacrifice image quality for the sake of simplicity.



- A simple workflow for maximum convenience
- An intelligent system you can trust to help you
- Select the imaging mode you need - Brightfield or Fluorescence
- See scanned images with more clarity than ever before
- Spend time on what’s important
- Quality control made easy for your imaging workflow
- Visualize what you need, the way you’d like

A simple workflow for maximum convenience

Follow each step and use already predefined settings to get started with scanning. No previous imaging experience needed.

As few as ***5*** clicks

User-input

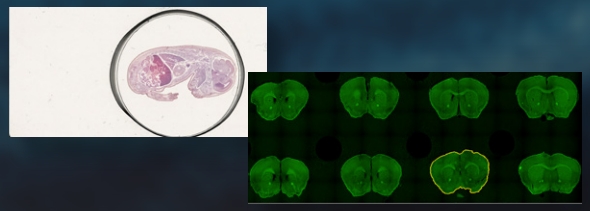
Slide Preparation

- Select Slide
- Select Magnification
- Input Project Details

Fluorescence Imaging

- Select Channel

Overview Scan



Edit Regions

Optional

- Manually Adjust Regions
- Rename Slide and Regions

Form and Settings

- Select Magnification

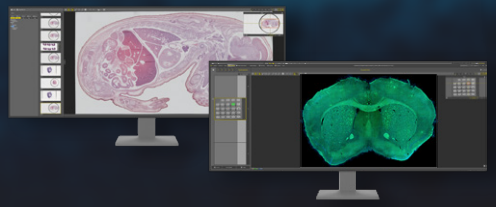
Fluorescence Imaging

- Select Channel

Optional

- Edit Sample and Staining Details

Region Scan

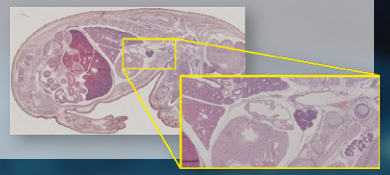


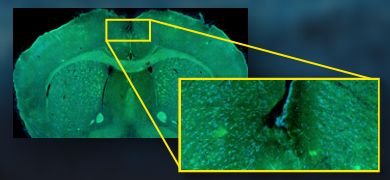
Final Inspection

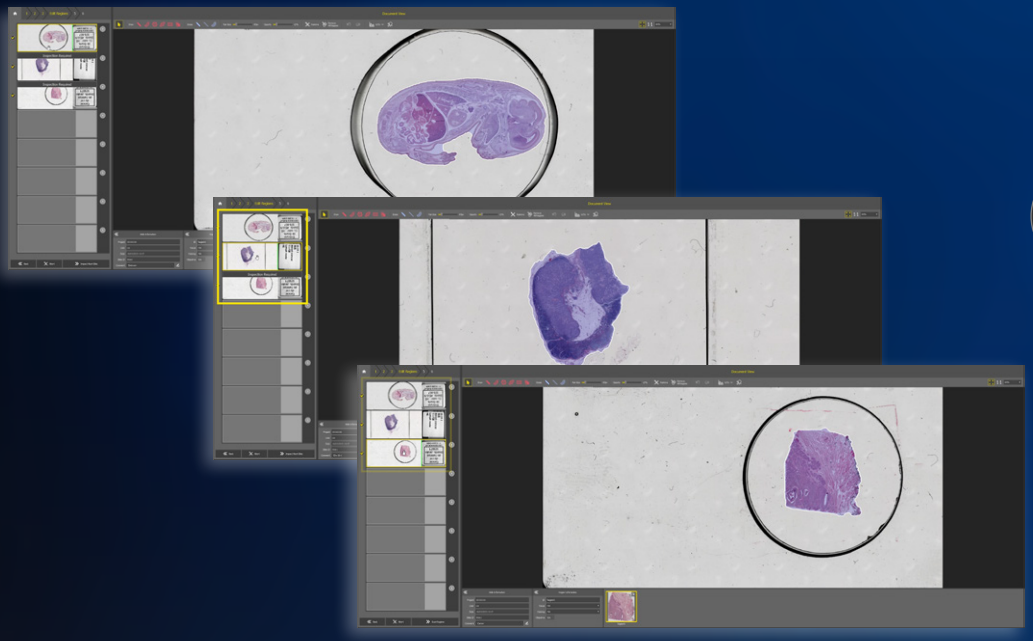
- Review Acquired Images

Optional

- Re-scan Individual Slides If Needed





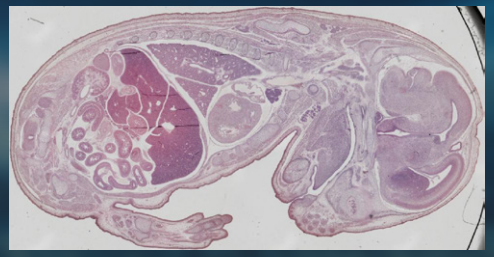


An intelligent system you can trust to help you

To make your scanning workflow even smoother, our AI can automatically read sample labels, detect regions to be scanned, find the most optimal light settings, and ensure that your sample is always in focus.

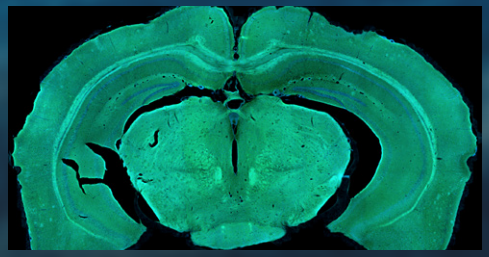
Low quality images can finally become a thing of the past.

Brightfield



Mouse embryo stained with hematoxylin eosin

Fluorescence

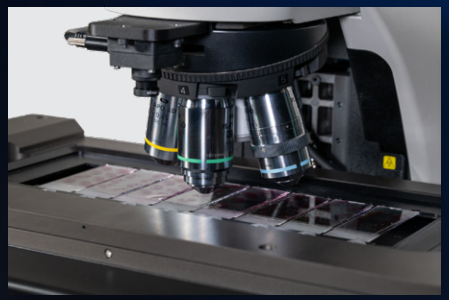


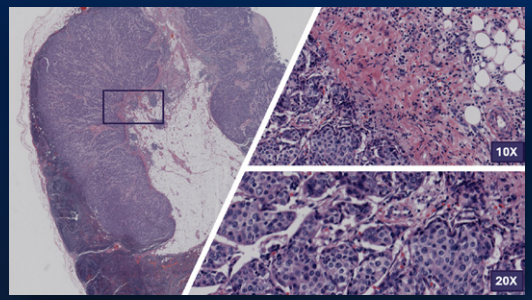
Fluorescence staining of coronal section of mouse brain

Select the imaging mode you need

The NIS-Elements Slide Scanning module supports both brightfield and fluorescence imaging, providing flexibility for diverse imaging applications.

CFI Plan Apochromat Lambda D series





Human lymph node stained with hematoxylin eosin

See scanned images with more clarity than ever before

Collecting data fast shouldn't mean you have to compromise on image quality. The combination of Nikon's renowned optics with the NIS-Elements Slide Scanning module allows you to get the best image quality in as little time as possible.

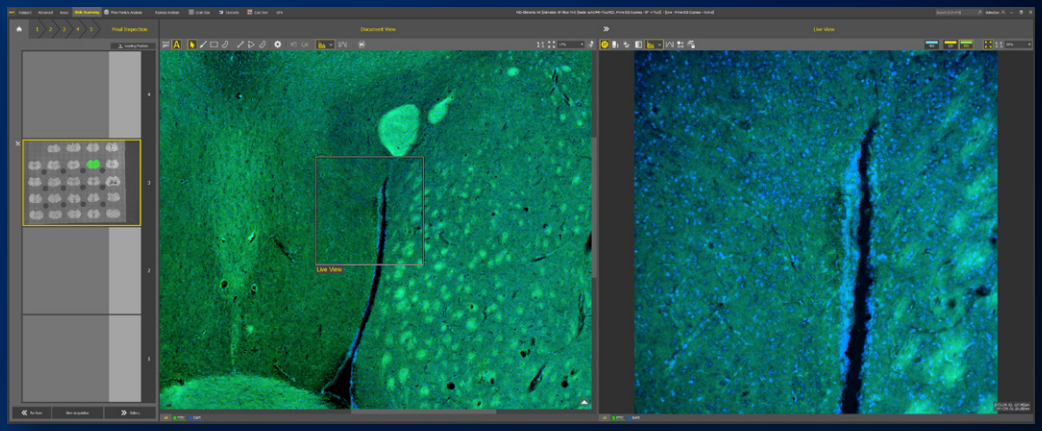
Spend time on what's important

Acquiring your desired images shouldn't take long. You can scan entire tissue sections even under a minute* making use of our fast stage and precise tiling.

*See specifications for details

Quality control made easy for your imaging workflow

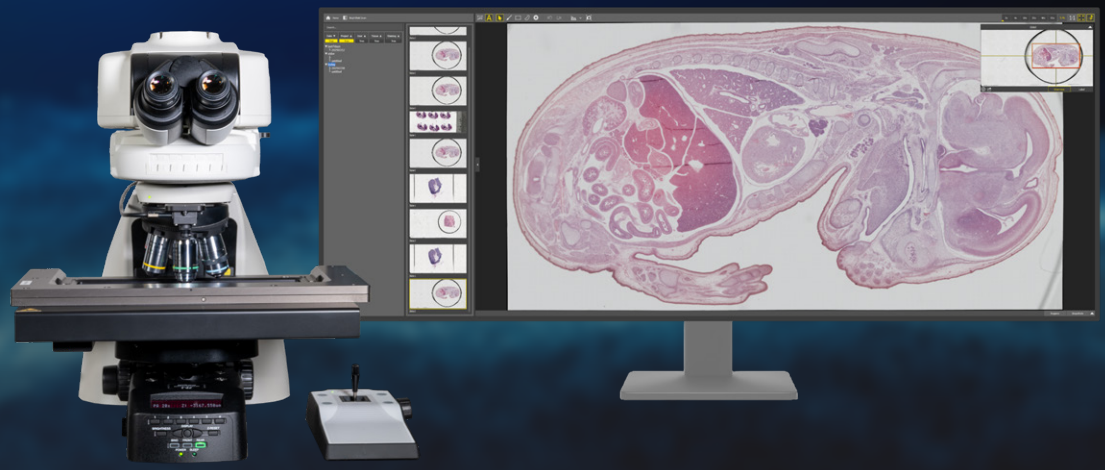
Ensure accuracy by instantly comparing your scanned image side-by-side with a live sample at any time. With the synchronizer tool, navigating between the two is smooth and intuitive.



Fluorescence staining of coronal section of mouse brain

Visualize what you need, the way you'd like

You can easily find and visualize any of your scanned images with the convenient gallery view.



Specifications

	Brightfield	Fluorescence
Optical system	CFI60 Infinity Optical System *1 Plan Apo Lambda D 2X, NA 0.1 Plan Apo Lambda D 4X, NA 0.2 Plan Apo Lambda D 10X, NA 0.45 Plan Apo Lambda D 20X, NA 0.8 Plan Apo Lambda D 40X, NA 0.95 *2	
Resolution	10X: 0.34 µm / pixel 20X: 0.17 µm / pixel 40X: 0.09 µm / pixel	10X: 0.65 µm / pixel 20X: 0.33 µm / pixel 40X: 0.16 µm / pixel
Brightfield illumination	High colour rendering LED light source	N/A
Brightness settings	AI-assisted automatic brightness settings	N/A
Stage	Motorized stage to hold 8 standard (75 x 25 mm) or 4 double (150 x 50 mm) slides Travel range: max. 225 x 76 mm Travel speed: max. 240 mm/s Resolution: 0.01 µm	
Removable slide tray	8 slides of 75 x 25 mm OR 4 slides of 150 x 50 mm	
Piezo	Optional - 250 µm travel range	250 µm travel range
Scanning speed	51s of an approx. scan area of 15 mm x 15 mm using 20X magnification and 100 µs camera exposure time	Approx. 8 mins of an approx. scan area of 15 mm x 15 mm using 20X magnification, 4 channels each with 50 ms camera exposure time
Focus mechanism	AI-assisted autofocus	
Z-Stack option	Extended Depth of Focus (EDF)	
Nosepiece	6 position motorized nosepiece	
Condenser	Motorized universal condenser Dry (NA 0.88)	
Colour camera	5MP, up to 75 fps, CMOS sensor	N/A
Sample recognition	AI-assisted region detection	
Barcode	1D: Codabar, Code39, Code93, Code128, EAN8, EAN13, ITF, DataBar, DataBarExpanded, UPCA, UPCE 2D: Aztec, DataMatrix, MaxiCode, PDF417, QRCode, MicroQRCode, RMQRCode	
File format	ND2, OME-TIFF Compression options: JPEG	
Filter cube turret	N/A	6 position motorized filter turret
Epi-illumination light source	N/A	CoolLED pE800 8 individually controllable LED channels
Monochrome camera	N/A	Prime BSI Express monochrome camera 4.1MP, up to 95 fps, CMOS sensor

*1 - limitations may apply

*2 - optional

This product is research use only and should not be used for in vitro diagnostics.

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

⚠ **WARNING**	TO ENSURE CORRECT USAGE, READ THE CORRESPONDING MANUALS CAREFULLY BEFORE USING THE EQUIPMENT.

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