

TissueScope™ iQ Intelligent Slide Scanner



Scanning flexibility meets throughput and intelligence.

Our newly-developed TissueScope iQ scanner combines flexibility with high throughput. Load up to 400 standard slides or 200 double-wide slides, or mix and match slide cartridges, for ultimate flexibility.

Key Features

- High capacity: up to 400 standard or 200 double-wide slides
- Sharp, clear image quality up to 40X magnification
- Flexibility: Mix and match standard and double-wide slide cartridges
- Industry-first, real-time indexing of slides to enable image search capability²
- One-click automatic scan mode and manual scan mode
- Non-proprietary file format, DICOM compatible
- Fresh new user interface
- Fast: <1 minute per slide¹
- Z-Stack scanning
- Image-based barcode reading

Scan up to 400 standard slides or 200 double-wide slides

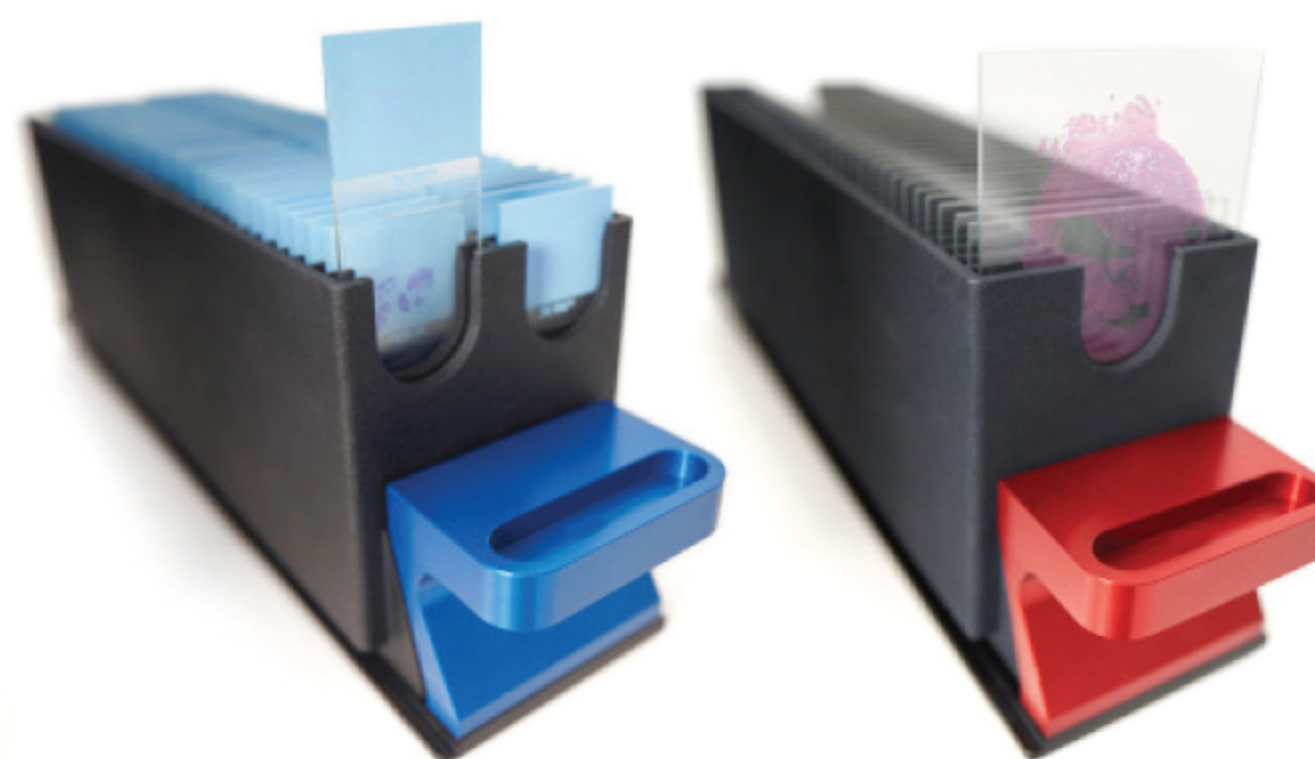
The TissueScope iQ scanner features five slide cartridges, each accommodating 80 standard slides or 40 double-wide slides. Standard or double-wide cartridges can be mixed and matched in the scanner.

Technical Specifications

Imaging Mode	Brightfield
Slide Formats	25mm x 75mm (1"x 3") 50mm x 75mm (2"x 3")
Optical Resolution	0.75 NA
Resolution (µm/pixel)	0.2 at 40X 0.4 at 20X
Scan Speed	<1 minute per slide ¹
File Format	Non-proprietary 24-bit RGB pyramidal BigTIFF Uncompressed, JPEG or JPEG2000 compression Export to JPEG, Flat TIFF and LZW compressed TIFF
Dimensions & Weight	60cm (23.7") Width 54cm (21.4") Length 43cm (16.9") Height 34Kg (97lbs) Weight
Warranty	One year

1 15mm x 15mm @ 20X magnification

2 Available Spring 2021

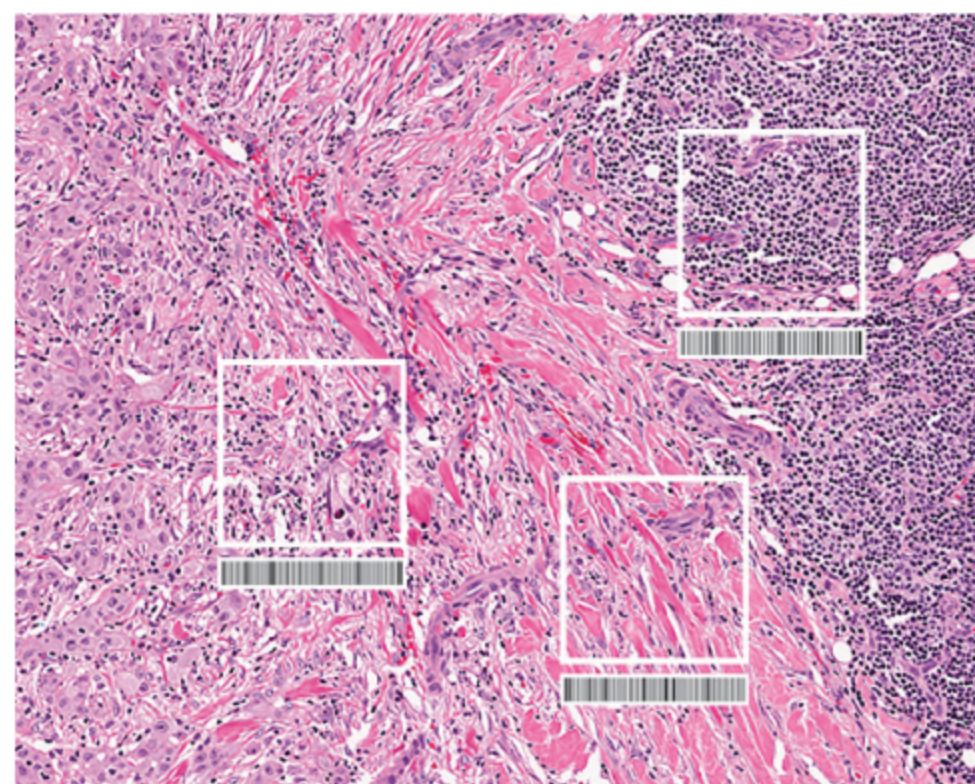


Standard Slides

Double-Wide Slides

Transform your slides into sharable knowledge.

The TissueScope iQ scanner is a key part of Huron's Scan, Index, Search platform for pathology, which combines best-in-class slide scanning with our innovative, AI-powered image search engine to open up new possibilities to share knowledge contained in glass slides and pathology reports.



Scan.

Our solution leverages our 10+ year experience in providing whole slide scanners to leading clinical and research institutions.

imaging. As such, we are active participants in implementing the DICOM standard in our scanners to ensure compatibility with other imaging modalities in the enterprise.

Index.

Whole slide images are large and therefore difficult to search. We have developed a patent-pending method based on artificial intelligence and computer vision to represent images as a series of compact and easily-searchable smart barcodes.

Our solution batch indexes large repositories of whole slide images, at scale. Our scanner-agnostic approach means the slides can originate from Huron scanners or from many other scanner vendors. As new slides are added to the repository they are added to the index. The more slides, the better the search performance.






Search.

We offer an easy-to-use tool for pathologists to retrieve images that are anatomically similar to the biopsy sample they are reviewing. After highlighting a region of interest, the search engine returns images with similar content along with the corresponding diagnoses. The pathologist can use the similar cases to solidify the basis for their diagnosis.

This search capability can be deployed within a single institution or across multiple networks, offering hospitals and laboratories the ability to capture the collective knowledge of their pathologists towards computational consensus-building.

About Huron Digital Pathology

We are on a mission to turn glass slides into shareable knowledge. Our Scan, Index, and Search solution for pathology combines award-winning whole slide imaging hardware with powerful image search technology to connect pathologists, researchers and educators with the expertise of their colleagues to help speed up diagnosis and accelerate disease research.

In Canada, TissueScope iQ™ is licensed by Health Canada for In-Vitro Diagnostic use.  
In the European Union, Huron Digital Pathology has an application in progress for CE marking under the 'In-Vitro Diagnostic Directive'.
European Authorized Representative for Medical Devices:  
Emergo Europe BV, Prinsessegracht 20, 2514 AP, The Hague, The Netherlands.
Huron Digital Pathology, 1620 King Street North, St. Jacobs, ON, N0B 2N0, Canada. 

In other countries, the TissueScope™ iQ intended for research and educational purposes only. TissueScope™, TissueSnap™ and Huron Digital Pathology™ are trademarks of Huron Technologies International Inc.
The TissueScope™ scanner is based on one or more of the following: U.S. Patents 8,896,918 B2/8,655,043/7,218,446 B2 / 6,072,624; EU patent 2758825; U.S. and International patents pending.

Document #SMB-0005