HURON
Digital Pathology

TissueScope™ iQ
Intelligent Slide Scanner

REAL-TIME
Native Indexing

Scanning flexibility meets throughput and intelligence.

Our newly-developed TissueScope iQ scanner combines flexibility and high throughput with industry-first, real-time, native indexing of images to enable content-based image search. 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, native indexing of slides for image search
- One-click scanning or fully configurable
- Non-proprietary file format, DICOM compatible
- Fresh new user interface
- Fast: <1 minute per slide[1]
- 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 43 cm (16.9") Height 44kg (97lbs) Weight
Warranty	One year

[1] 15mm x 15mm @ 20X magnification
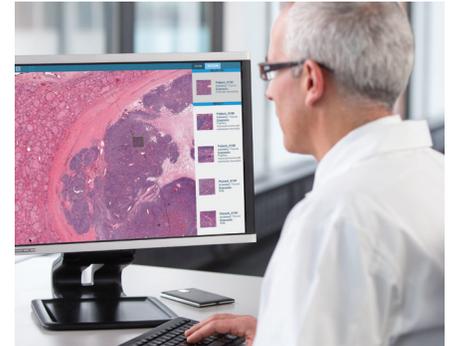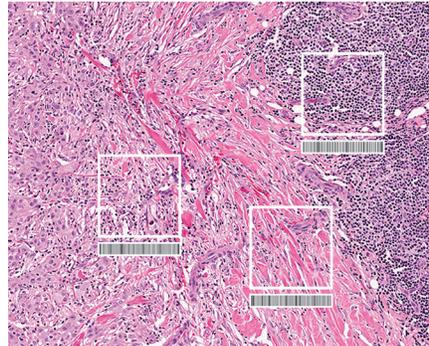

Standard Slides   Double-Wide Slides

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. Our newly-developed TissueScope iQ scanner combines scanning flexibility and high throughput with industry-first real-time, native indexing of images for content-based image search.

We are open and forward thinking. Our non-proprietary file format ensures that you are never locked-in. We also recognize the value of standards and the relationship between pathology and enterprise 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.