Advancing Cancer Diagnostics
Improving Lives

Leica BIOSYSTEMS

Fast forward to next generation imaging

Introducing the

Aperio GT 450

Scale up Digital Pathology operations by increasing throughput in high volume pathology labs.

More than 30 Patents SMARTER*

For research use only. Not for use in diagnostic procedures.

*International patent families including patent applications and granted patents.

Be on time
Fast scans
Confidence
No shipping
Continuous loading
Be more productive
Next generation imaging for Technicians
Auto QC
Fast-paced
First-time scan success
Cross-training
Easy to use

Designed to deliver rapid results with confidence for histotechnicians.

Directly load racks from coverslipper to scanner.

"The Aperio GT 450 is very easy to use and a companion in the lab."

– Brittney Hosac - Lab Assistant, NeoGenomics

The products shown above, the HistoCore SPECTRA Workstation, in combination with the Aperio GT 450, are for Research Use Only (RUO).

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- Assign priority cases.
- Automated image quality check and slide calibration during each scan.
- No-touch continuous rack loading during scanning.
- 450 slide capacity packed into small size.
- Excellent image quality using Leica optics.

32 SEC

32 sec scan speed at 40x*.

81 PER HR

81 slides per hour at 40x*.

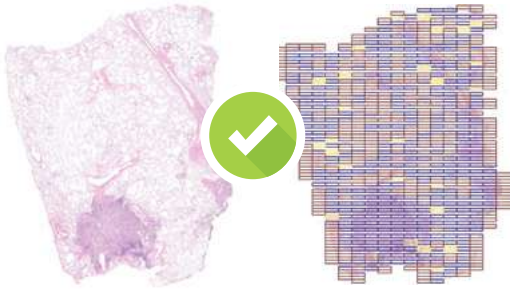
120,000 PER YEAR

Scan 120,000 slides per year operating the Aperio GT 450 for around 5 hours/day*.

* 15mm x 15mm scan area @ 40x; assumes 5 hr. scan time per day for 300 work days per year

Aperio GT 450 open face design allows you to continuously load racks while scanning is in progress to maximize productivity.

Assign priority cases for fast delivery of priority or routine cases directly to the Pathologist.



Featuring automatic image quality control, so you have image quality confidence before your scans reach the Pathologist.

Stats page allows you to view slides scanned/day/ month/year, average scan area and average scan speed.

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Login controls
Easy setup
Security
Store and forward
High speed data transfer
DICOM or SVS compatible
Flexibility
Large storage
Encryption

Next generation imaging for IT Professionals

Designed to deliver fast, secure, and scalable IT architecture for IT Professionals.

"The IT architecture for the Aperio GT 450, including the SAM central hub, is a gigantic leap forward to scale and support digital pathology IT operations."

– Chris Khacherian, UCLA Program Manager, Service Delivery, DGIT | Digital Technology

A secure, flexible and fast IT solution to scale up your Digital Pathology operations.

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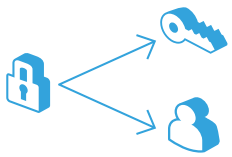
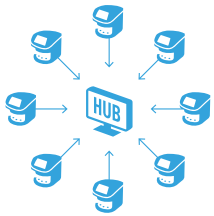
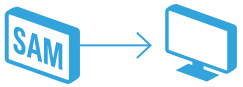


Cyber security including encryption and login controls.

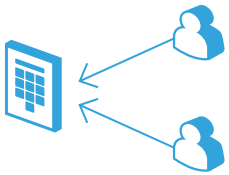
HL7 and PACS ready, for **integration** into LIS, LIMS or PACS.



Securely scan slides at a **spoke** location and store images at a **Hub** location for all sites to log in and view images.

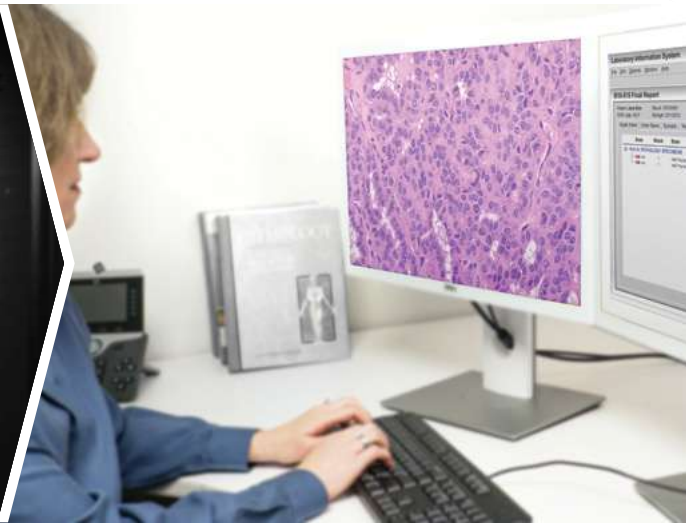


Store and forward: store images temporarily then transfer during low IT traffic times.

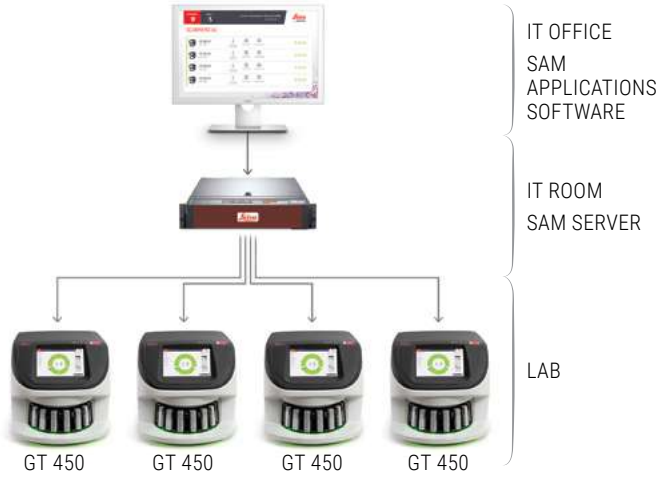


Set up user-specific **log in** for each Aperio GT 450.

A centralized Scanner Admin Manager (SAM) will allow IT professionals to scale up Digital Pathology operations securely and efficiently.



No more workstations needed. SAM server and software allow IT managers to set up and monitor GT 450 scanners via the network, including dashboard status views, PIN controls and log out times.



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Fast viewing speeds
Faster turnaround time
High resolution
Image quality
Limited rescans
Integrated work-flow
Craftsmanship
State-of-the-art
Peace of mind
Resolution
Precision
Ease of use
DICOM
Contrast

Next generation imaging for Pathologists

Designed to rapidly deliver images with excellent image quality for Pathologists.

"I am really impressed with the sharpness and contrast of the images. It is definitely next-generation image quality."

– W. Dean Wallace M.D., Professor, Pathology and Laboratory Medicine, David Geffen School of Medicine at UCLA

Aperio GT 450 utilizes a high performance 40x objective manufactured by Leica, the company that has engineered world class optics since 1841.

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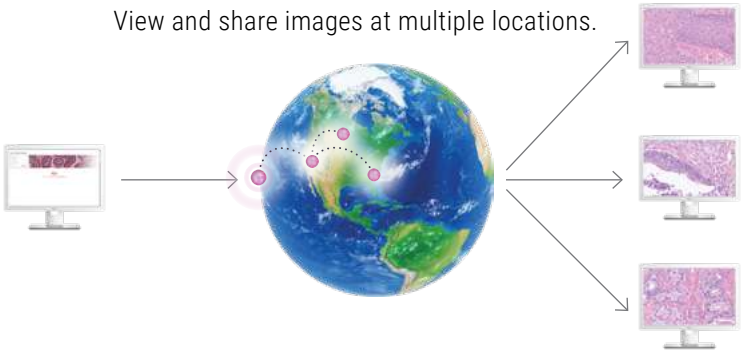
Aperio GT 450 illuminates tissue from both sides of the slide resulting in a 99.5% accurate tissue finder that recognizes faintly-stained tissue while excluding:

> Pen marks
> Stain residue
> Scratches
> Dust

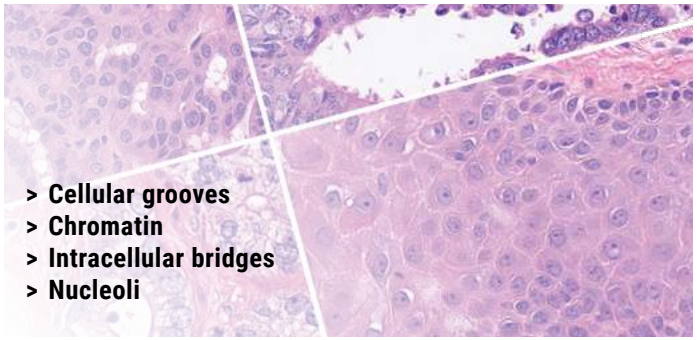
View and share images at multiple locations.



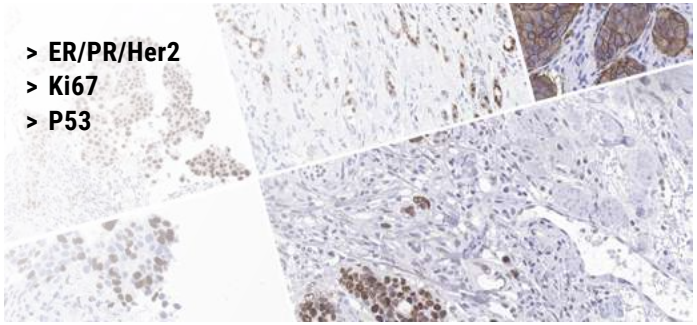
Aperio GT 450 applications:

> Digital archiving
> Drug development studies
> Cancer research
> Toxicology research
> Basic cell biology research
> Immunology research

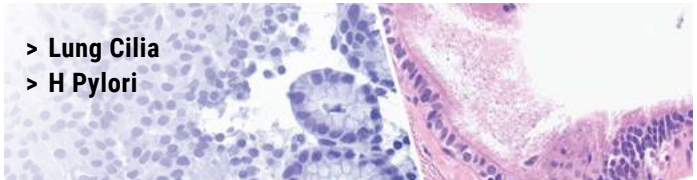
"Good cellular details at high power and good focus throughout the tissue."– Sally Agersborg, MD, PhD, Medical Director, NeoGenomics Laboratories, Inc.



> Cellular grooves
> Chromatin
> Intracellular bridges
> Nucleoli



> ER/PR/Her2
> Ki67
> P53



> Lung Cilia
> H Pylori

Access and organize your cases with Aperio eSlide Manager integrated into an LIS. View your case images with Aperio Viewer.

Aperio Viewer

Integrated LIS

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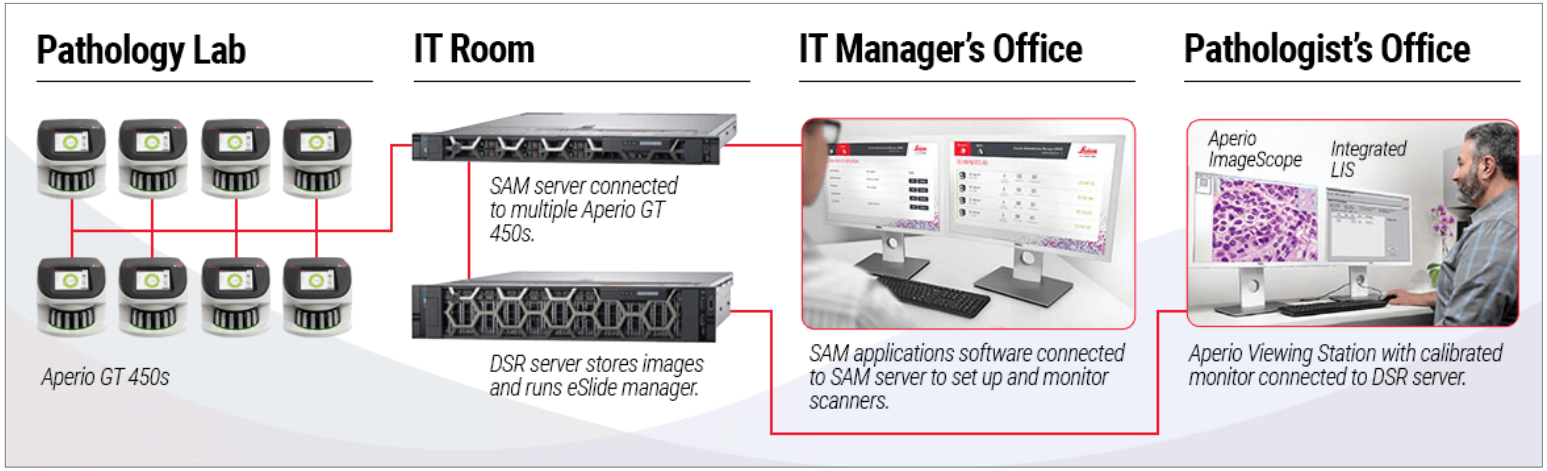
From the lab to the IT room the Aperio GT 450 was designed to scale up digital pathology operations for Histotechnicians, IT Professionals and Pathologists



"The Aperio GT 450 has demonstrated in a workflow study at our laboratories substantial increases in case throughput while dramatically reducing hands on time for our technicians, which frees up additional FTE capacity that we can operationally utilize to respond to increasing annual slide volumes."

– Julie Broccardo, Director of Anatomic Pathology Operations, NeoGenomics Laboratories, Inc.

Aperio GT 450 Summary of Specifications	
Maximum Slide Capacity	450
Rack capacity	15 racks of 30 slides, 15 racks of 20 slides
Racks compatible with Leica HistoCore SPECTRA Workstation	Yes
Continuous rack loading while scanning	Yes
Priority rack scanning	Yes
Magnification	40x
Resolution	0.26 µm/pixel at 40x
Scan speed (15mm x 15mm area at 40x)	32 sec
Sustained throughput (15mm x 15mm area at 40x)	81 slides/hr
Automated Image Quality Check	Yes
Slide sizes accepted	1x3
Field of View (FOV)	1mm
Bar code engines	1D and 2D symbology
Dimension	20.8" (52.83 cm) W x 23" (58.43 cm) L x 19.5" (49.53 cm) H
Weight	140 lbs (63.5 kg)

*Parts shown are each sold separately.

Part Number	Description
23GT450	Aperio GT 450 Scanner
23GT450SAM	Aperio GT450 Scanner Admin Manager (SAM) Server
23GT450SAMSW	Aperio GT450 Scanner Admin Manager (SAM) Applications Software
23Dell740XD21TB	Dell 740 XD image storage DSR 21 Terabytes
23Dell740XD42TB	Dell 740 XD image storage DSR 42 Terabytes
23Dell740XD85TB	Dell 740 XD image storage DSR 85 Terabytes
23Dell740XD138TB	Dell 740 XD image storage DSR 138 Terabytes
23VS100	Aperio viewing station (includes calibrated monitor, workstation, Aperio ImageScope viewer and optimized ICC file)

Learn more at: LeicaBiosystems.com/AperioGT450

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