

Advancing Cancer Diagnostics  
Improving Lives



Fast forward to next  
generation imaging

## Aperio GT 450 DX

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

\*International patent families including patent applications and  
granted patents.

For In Vitro Diagnostic Use.  
The clinical use claims described for the products in the information supplied  
have not been cleared or approved by the U.S. FDA or are not available.



More than 30  
Patents **SMARTER\***

Be on time  
Fast scans  
No shipping  
Continuous loading  
Be more productive  
Auto QC  
Fast-paced  
First-time scan success  
Cross-training  
Easy to use

# Confidence

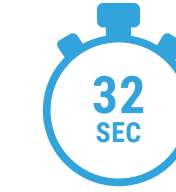
Next generation imaging for **Histotechnicians**

Designed to deliver rapid results with confidence for histotechnicians.

Directly load racks from coverslipper to scanner.



- 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 footprint.
- Excellent image quality using Leica optics.



32 sec scan speed at 40x\*.



81 slides per hour at 40x\*.



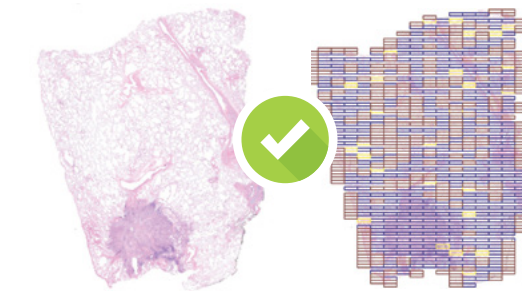
Scan 120,000 slides per year operating the Aperio GT 450 DX for around 5 hours/day\*.

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

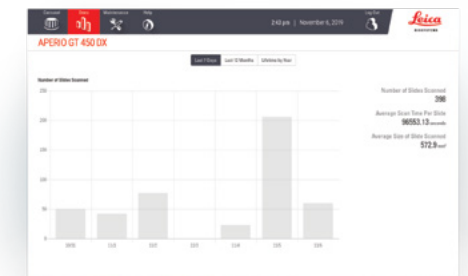
Assign priority cases for fast delivery of urgent or routine cases directly to the Pathologist.



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



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.



# Security

Next generation imaging for IT Professionals

Flexibility

Encryption

Large storage

High speed data transfer

Easy setup

Store and forward

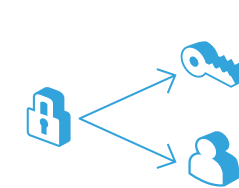
SVS

Login controls

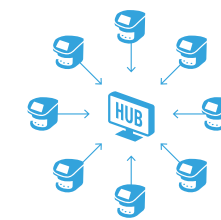
Designed to deliver fast, secure, and scalable IT architecture for IT Professionals.



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



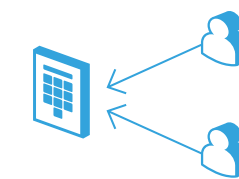
**Cyber security** including encryption and login controls.



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 DX.



A centralised Scanner Administrator Manager DX (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 DX scanners via the network, including dashboard status views, PIN controls and log out times.





Fast viewing speeds  
Faster turnaround time  
High resolution  
Limited rescans  
Integrated work-flow  
Craftsmanship State-of-the-art  
Next generation imaging for **Pathologists** Peace of mind  
Resolution Precision Ease of use  
Contrast

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



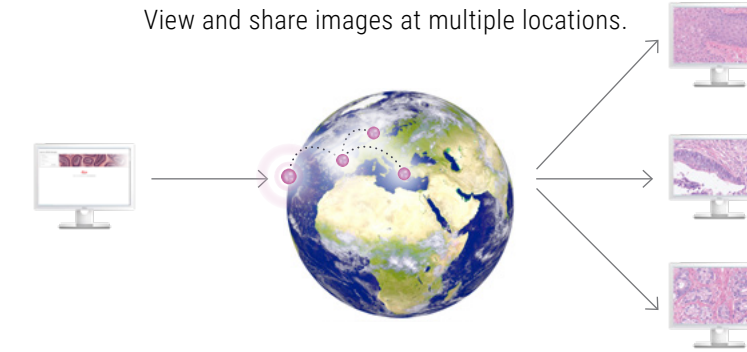
Aperio GT 450 DX utilises a high performance, custom-made objective manufactured by Leica, the company that has engineered world class optics since 1849.



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

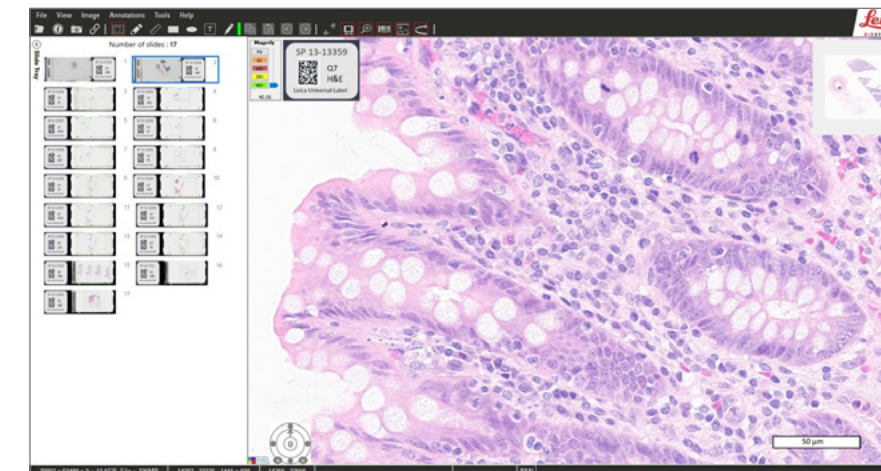
- > Pen marks
- > Stain residue
- > Scratches
- > Dust

View and share images at multiple locations.



Aperio GT 450 DX System applications:

- > Primary diagnosis
- > Multidisciplinary team meetings
- > Case archiving



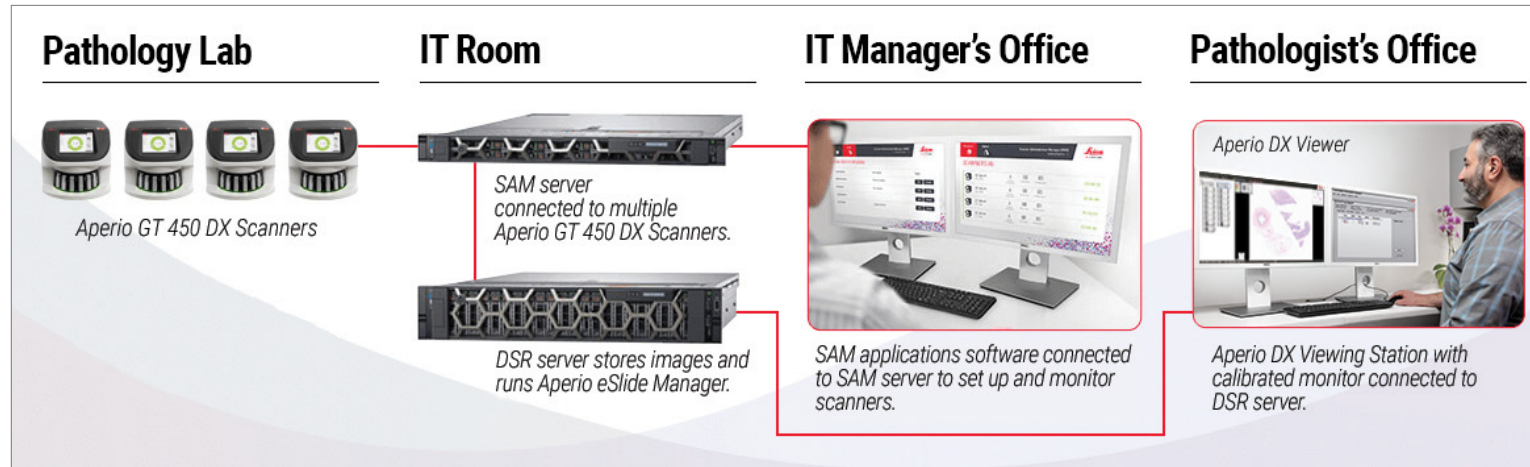
- > High performance, streamlined viewer
- > Intuitive navigation tools and 360° rotation
- > Patented colour calibration methodology

Access and organise your cases with Aperio eSlide Manager.  
View your case images with Aperio DX Viewer.

Aperio DX Viewer



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



Aperio GT 450 DX 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	25 x 75mm
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)

Part Number	Description
23GT450DX	Aperio GT 450 DX Scanner
23GT450DXSAM	Aperio GT 450 Scanner Administration Manager DX (SAM) Server
23GT450DXSAMSW	Aperio GT 450 DX Scanner Admin Manager (SAM) server 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
23VS100DX	Aperio DX Viewing Station (includes calibrated monitor, workstation, viewer and optimised ICC file)

\*Parts shown are each sold separately.

Aperio DX Viewer and Viewing Station Specifications	
CPU Speed	Intel Xeon W-2123, 3.6 GHz, 4C, 8.25M Cache, HT
Hard Disk space	80GB free disk space
Memory	8GB
Network Card	1 Gigabit network card
Video Card	Nvidia Quadro P400, 2GB, (3mDP)
Operating System	Windows 10 64-bit
Graphics Support	OpenGL 2.0

For In Vitro Diagnostic Use. The clinical use claims described for the products in the information supplied have not been cleared or approved by the U.S. FDA or are not available in the United States.

Copyright © 2020 Leica Biosystems Imaging, Inc. All Rights Reserved. LEICA and the Leica logo are registered trademarks of Leica Microsystems IR GmbH. Aperio is a registered trademark of Leica Biosystems Imaging, Inc. in the USA and optionally in other countries. GT and GT 450 are trademarks of Leica Biosystems Imaging, Inc. in the USA and optionally in other countries. Other logos, product and/or company names might be trademarks of their respective owners.

200151 Rev A • IMC-1211-REV-A 03/2020

Learn more at: [LeicaBiosystems.com/AperioGT450DX](https://LeicaBiosystems.com/AperioGT450DX)