Fast forward to next generation imaging

Introducing the Aperio GT 450

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

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

*International patent families including patent applications and granted patents.
Designed to deliver rapid results with confidence for histotechnicians.


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

– Brittney Hosac - Lab Assistant, NeoGenomics

Directly load racks from coverslipper to scanner.

The products shown above, the HistoCore SPECTRA Workstation, in combination with the Aperio GT 450, are for Research Use Only (RUD). For research use only. Not for use in diagnostic procedures.
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.

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

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.

32 sec scan speed at 40x*. 81 slides per hour at 40x*. 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

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

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Next generation imaging for IT Professionals

Security
High speed data transfer
DICOM or SVS compatible

Login controls
Easy setup
DICOM or SVS compatible

Large storage
Encryption
Store and forward

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

- **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.

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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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

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.

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

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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.

**Aperio GT 450 Summary of Specifications**

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

*Parts shown are each sold separately.

Learn more at: [LeicaBiosystems.com/AperioGT450](LeicaBiosystems.com/AperioGT450)

"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.