APERIO GT 180
SLIDE SCANNER

IT'S TIME FOR A 180
BECAUSE PROVEN TECHNOLOGY MEANS BETTER PATHOLOGY

Accelerate Your Journey
Imagine the Possibilities

Leica
BIOSYSTEMS

THE PUSH FOR BETTER RESEARCH

For many researchers, the shift to digital pathology still feels like a daunting task. Teams are navigating increasing pressure to do more with less, all while balancing tight timelines and growing expectations around collaboration and consistency.

Modern labs need a digital pathology slide scanner that's compact, cost-effective, and capable of delivering high-quality results without expert-level training.

The Aperio GT 180 scanner delivers the proven image quality and speed of trusted Aperio scanners in a design that works for your lab

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

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CONSISTENCY

Irregular samples, small tissue fragments, or faint stains on slides can result in missed regions and poor image quality in whole slide images. The Aperio GT 180 scanner combines high-level automation enabling flexible scanning with robust imaging capabilities, delivering first-time scanning success for your slides.

COLLABORATION

Collaboration with local colleagues or remote peers is a cornerstone of modern research. Quickly and easily capture high-quality scans of your brightfield slides on the Aperio GT 180 scanner so you can collaborate with confidence.

REPRODUCIBILITY

Reproducing results is pivotal to research success. With patented Real-Time Focusing, robust automation, and ease of use, the Aperio GT 180 scanner delivers consistent excellence in image quality.

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INTUITIVE TOOLS, PROVEN RESULTS

The Aperio GT 180 scanner's intuitive software helps labs stay productive from day one. Minimal training is required, reducing onboarding time and making it easy for technicians of all experience levels to work efficiently and with confidence.

A compact and scalable design offers a practical entry point to digital pathology that integrates seamlessly into lab workflows, while offering the flexibility to grow with your lab's evolving needs.

TRUSTED TECHNOLOGY

Built on 25+ years of proven scanning technology, delivering consistent, high-quality results that labs can depend on, the Aperio GT 180 scanner helps ensure that only the highest-quality slides are delivered to researchers by incorporating advanced quality control measures.

ACCESSIBLE SCALABILITY

With the same easy-to-use interface as the Aperio GT 450, the Aperio GT 180 scanner is optimized for training and serviceability. Experience the same image quality for pathologists, SAM infrastructure, AI readiness, and the Aperio market tested ecosystem, all in a smaller scanner.

OPTIMIZED FOR SPEED

Flexible, high-speed scanning enables labs to process slides quickly and efficiently, reducing bottlenecks, minimizing downtime, and maintaining momentum across the lab. Increase productivity and help your team get home on time.

SUPERIOR IMAGE CLARITY

The Aperio GT 180 scanner provides accuracy and speed to deliver high-quality images. Proven technology provides your team with confidence in automated processes so they can enjoy a stress-free workflow with fewer rescans.

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ADVANCED FEATURES**

Assign priority cases.

Automated image quality check and slide calibration during each scan.

No-touch continuous rack loading during scanning.

180 slide capacity packed into a streamlined design.
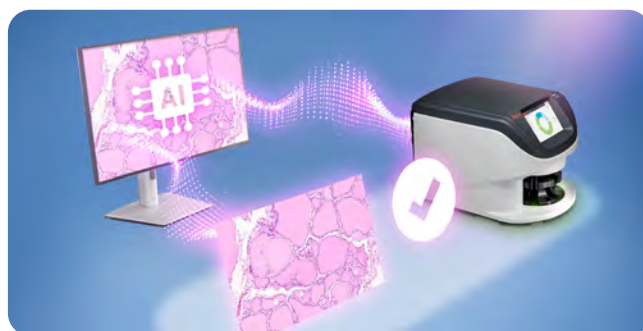

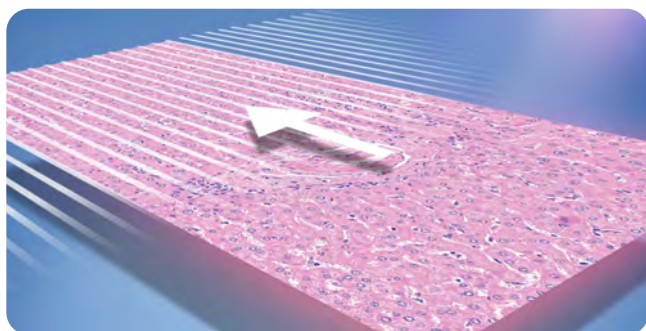**Excellent image quality using Leica optics.**

MANUAL SCANNING

Gain control over slide capture, which helps ensure high-quality images from even the most challenging tissue samples. Quickly rescan slides from the same location, making real-time adjustments to faint stains, small tissue fragments, or low-density samples. This feature minimizes workflow disruptions, enhances image clarity and consistency.
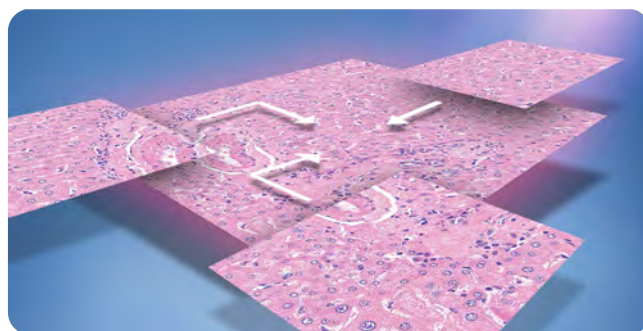

APERIO iQC SOFTWARE

Optional Aperio iQC software enhances automatic image quality control, ensuring confidence before scans are delivered. Using AI-enabled detection, it identifies whole slide image (WSI) artifacts and provides notifications through a quality control dashboard, flagging issues and recommending corrective actions so anyone in the lab can scan.

DEFAULT CALIBRATION POINT

Default Calibration Point reduces the risk of striping from the start, maintaining image clarity without additional adjustments. Lab managers benefit from a streamlined scanning process that enhances efficiency and delivers consistently high-quality results with minimal effort.

EXTENDED FOCUS

An efficient imaging solution that enhances image quality while optimizing storage needs. By combining multiple focus layers into a single, ultra-sharp image, Extended Focus ensures all cells remain in focus without requiring users to scroll through layers. Smaller file sizes speed up data transfer, facilitating faster collaboration and enabling remote access to high-quality research images.

The advanced technology of the Aperio GT 180 scanner provides flexibility to meet multiple, complex protocols.

Z-stacking captures multiple focal planes of a tissue sample to enhance depth and precision, ensuring even the smallest structures are in focus.

DICOM support lets you integrate seamlessly with industry standard infrastructure and imaging formats for efficient sharing, analysis, and storage.

Flexible 20x and 40x scanning magnification provides labs with the choice to prioritize high-throughput or enhanced detail depending on the task.

UNRIVALED IMAGE QUALITY

Capture every critical detail with exceptional clarity, from cellular grooves and chromatin structure, to intracellular bridges in H&E, or crisp, clear images of your IHC, ISH and brightfield multiplex slides.

THE BENEFITS OF PROVEN TECHNOLOGY

BUILT FOR YOUR LAB

With built-in touchscreen technology and no need for a controller computer, monitor, or keyboard, the Aperio GT 180 scanner makes it the ideal starting point for labs ready for digital pathology.

Built in touchscreen technology and no controller computer, monitor, or keyboard required for operation, the Aperio GT 180 scanner fits into the most compact laboratory benchtop spaces.

With a custom objective lens, designed specifically for digital pathology, coupled with patented image capture technology, the Aperio GT 180 scanner leverages the proven imaging capabilities and optical pathway of the Aperio GT 450 scanner.

Perform expert pathology without sacrificing your space or budget, with no scanning knowledge required to achieve best-in-class whole slide image (WSI) quality.

20.8" (52.8 cm)

19.54" (49.5 cm)

25.6" (65.0 cm)

CONTINUOUS LOADING

The Aperio GT 180 scanner, with its open-faced design, allows for continuous rack loading while scanning is in progress, maximizing productivity. Easy access to the loading area ensures seamless operation, reducing workflow interruptions and eliminating downtime between batches. This feature optimizes slide throughput to maintain consistent processing speeds throughout the day.

32 SEC

32 sec scan speed at 40x*
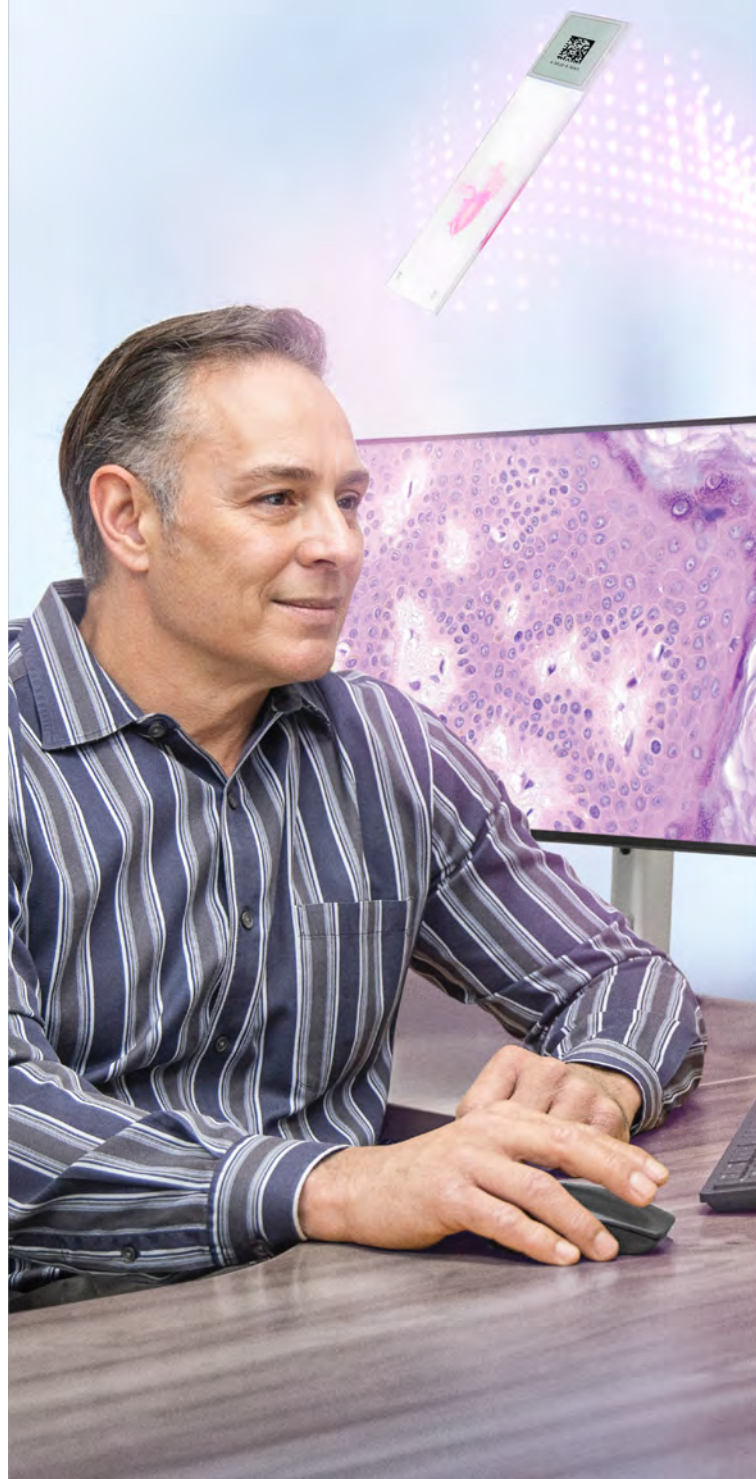
81 PER HR

81 slides per hour at 40x*

IT'S TIME FOR A 180 BECAUSE PROVEN TECHNOLOGY MEANS BETTER PATHOLOGY

The Aperio GT 180 scanner is designed to bring digital pathology within reach, whether you're driving innovation in research, managing daily lab operations, or ensuring IT systems run smoothly.

25+ years of digital pathology expertise can help everyone in your lab take the next step into digital pathology with confidence.

FOR RESEARCHERS

Gain deeper insights with high-quality digital slides, ensuring precision and reproducibility with expertly crafted Leica optics. Experience seamless integration into research workflows, enabling effortless collaboration and more efficient analysis.

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FOR LAB MANAGERS

Easy to use and intuitive to learn, the continuous loading, high-automation, and small footprint enables labs to enjoy a smooth, stress-free digital pathology workflow. Advanced feature options such as Manual Scanning*, for challenging slides, and Aperio iQC software*, to streamline quality control review, ensure hassle-free, high-quality scans.

FOR IT MANAGERS

Secure, scalable, and easy to integrate; seamlessly connect the Aperio GT 180 scanner to your lab's existing systems and infrastructure and leverage the widely used .svs or standardized DICOM file format for rapid integration with downstream software.

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BIOSYSTEMS

APERIO GT 180 SCANNER SUMMARY OF SPECIFICATIONS

Maximum Slide Capacity	180
Rack capacity	6 Universal racks, 30 slide capacity
Racks compatible with HistoCore SPECTRA Workstation	Yes
Continuous rack loading while scanning	Yes
Priority rack scanning	Yes
Manual Scan	Yes
DICOM compatible with 20x, 40x and Z-Stack*	Yes
Extended Focus	Yes
Intelligent Quality Control	Yes
Default Calibration Point	Yes
Automated Narrow Stripe	Yes
Z-Stacking*	Yes
Magnification	20x*, and 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	52.8 cm (20.8") width x 65.0 cm (25.6") depth x 49.5 cm (19.5") height
Weight	126 lbs (57.0 kg)

PART NUMBER	DESCRIPTION
23GT180	Aperio GT 180 Scanner
23APERIOSAMSW	Aperio GT 180 Scanner Admin Manager (SAM) Applications Software
23GT450ZSTACKSW	Feature Pack: Z-Stack, 20x and Automated Narrow Stripe
23GT450MANSCANSW	Manual Scan SW upgrade option
23GT450EXTFOCUSSW	Extended Focus SW upgrade option

*Optional features available. Aperio GT 180 scanner may not be available in every country/region.

The Aperio GT 180 scanner is designed for labs looking to take their first step into digital workflows while delivering excellence in quality.

With its compact 180-slide capacity, seamless integration, and advanced features, this scanner delivers the precision researchers demand, the efficiency lab managers need, and the scalability IT professionals require. Experience world-class image quality with Leica optics and automated features that simplify processes, minimize rescans, and enhance collaboration.

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