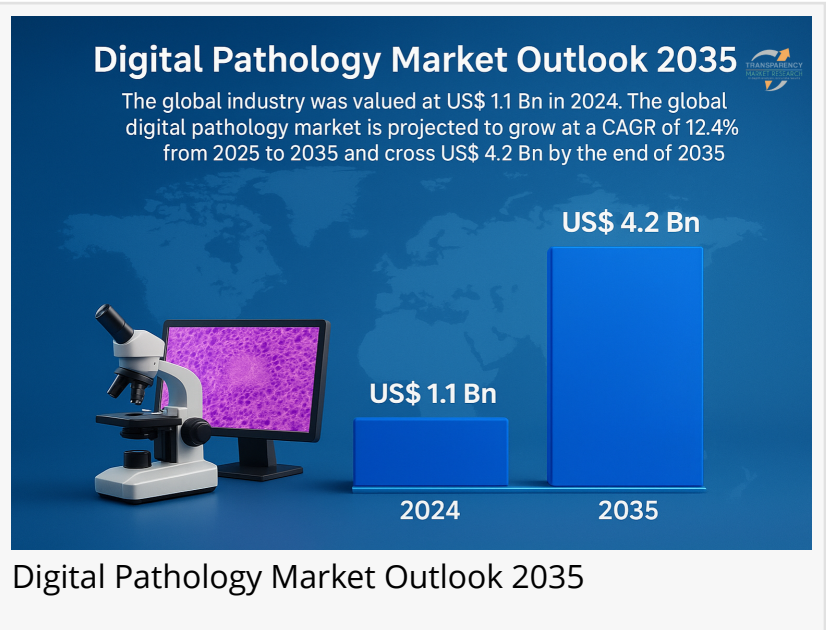


# Digital Pathology Market Size Forecast to USD 4.2 Billion by 2035 with a Focus on AI-Driven Diagnostics – Report by TMR

*Digital Pathology Market Outlook 2035:  
Rising from USD 1.1 Billion in 2024 to  
USD 4.2 Billion by 2035 - Analysis by TMR*

WILMINGTON, DE, UNITED STATES,  
August 18, 2025 /EINPresswire.com/ --  
[Digital Pathology Market](#) Outlook  
2035

The digital pathology market is witnessing robust growth as healthcare systems increasingly adopt AI-powered diagnostic tools and advanced imaging technologies. Valued at US\$ 1.1 Billion in 2024, the market is projected to expand at a strong CAGR of 12.4% from 2025 to 2035, reaching over US\$ 4.2 Billion by 2035.



Rising demand for remote diagnostics, growing prevalence of chronic diseases, and the integration of cloud-based platforms are driving market expansion. Moreover, digital pathology is enhancing precision medicine, enabling faster and more accurate disease detection. Continuous R&D investments and regulatory support are further accelerating adoption across clinical and research applications.



Digital Pathology Market  
Forecast 2035: AI, Cloud,  
and Remote Access Pave the  
Way to USD 4.2 Billion”  
*Transparency Market  
Research*

Don't miss out on the latest market intelligence. Get your sample report copy today@  
[https://www.transparencymarketresearch.com/sample/sample.php?flag=S&rep\\_id=1540](https://www.transparencymarketresearch.com/sample/sample.php?flag=S&rep_id=1540)

## Market Overview

Digital pathology leverages whole-slide imaging, image management systems, and AI/ML

algorithms to digitize, store, analyze, and share pathology slides. Hospitals, reference labs, pharma/biotech companies, and CROs are shifting from glass to pixels to accelerate turnaround times, reduce variability, enable remote sign-out/consultation, and support precision oncology. Vendor ecosystems increasingly emphasize regulatory-cleared scanners and viewers, cloud-first deployments, and seamless integration with LIS/RIS/EMR.

## Market Description

- Clinical diagnostics: Primary and secondary reads, tumor boards, companion diagnostics, and QC.
- Drug discovery & toxicologic pathology: High-throughput slide analysis, collaboration across global study sites, and GLP compliance.
- Education & proficiency testing: Virtual slides for training and standardized assessments.
- AI augmentation: Triage, quantification (IHC/ISH), tumor detection, grading, and prognosis—improving accuracy and pathologist productivity.

## Analysis of Key Players in Digital Pathology Market

Leica Biosystems, Koninklijke Philips N.V., F. Hoffmann-La Roche Ltd, EVIDENT, Morphle Labs, Inc., Hamamatsu Photonics, Inc., Fujifilm Holdings Corporation, KONFOONG BIOTECH INTERNATIONAL, Siemens Healthcare, 3DHISTECH Ltd., Sectra AB, Apollo Enterprise Imaging Corp, PathAI, and OptraSCAN are among the leading players operating in the digital pathology industry.

Each of these players has been profiled in the digital pathology market research report based on parameters such as company overview, financial overview, business strategies, product portfolio, business segments, and recent developments.

## Key Developments

- February 2025 — Charles River Laboratories International, Inc. & Deciphex: Collaboration announced to advance AI-powered digital pathology, integrating cutting-edge image management and novel AI tools for toxicologic pathology to deliver a more efficient, precise, and scalable workflow.
- February 2025 — Sectra & Region Västra Götaland (Sweden): Expansion of a 20-year collaboration through deployment of Sectra's digital pathology solution integrated with radiology, aimed at improving collaboration, diagnostic accuracy, and the efficiency of cancer care.

## Key Player Strategies

- AI-first roadmaps: Embedding FDA/CE-cleared or research-use AI apps into viewers for quantification, triage, and workflow orchestration.

- Enterprise imaging integration: Radiology–pathology convergence, unified worklists, and vendor-neutral archives to enable cross-disciplinary cancer care.
- Cloud & interoperability: Secure cloud archives, DICOM/HL7/FHIR support, and scalable storage/compute for large WSI datasets.
- Regulatory & quality focus: Compliance with CAP/CLIA/IVDR and validated remote sign-out to expand clinical usage.
- Emerging market access: Cost-optimized scanners and pay-as-you-go models for community hospitals and labs.
- Partnerships & M&A: Alliances between platform vendors, AI specialists, and CROs to deliver end-to-end solutions.

Discuss Implications for Your Industry Read full market research report@  
<https://www.transparencymarketresearch.com/digital-pathology-systems.html>

## Challenges

- Data gravity & storage costs: Managing petabyte-scale archives and long-term retention.
- Interoperability gaps: Proprietary formats and variable DICOM adoption across vendors.
- Validation & change management: Clinical validation, workflow redesign, and pathologist training needs.
- Reimbursement variability: Country-specific policies for digital sign-out and AI-assisted reads.
- Cybersecurity & privacy: Safeguarding PHI across cloud and remote workflows.

## Opportunities

- Oncology care pathways: Deeper integration with molecular diagnostics and radiology for multidisciplinary precision medicine.
- AI-augmented quantification: Automated scoring for IHC biomarkers and morphometrics to standardize results and scale throughput.
- Telepathology & networked labs: Regional hubs enabling remote consultation and after-hours coverage.
- Pharma/CRO partnerships: Centralized reading services, GLP-compliant workflows, and accelerated clinical trials.
- Education & low-resource settings: Virtual slide libraries and low-bandwidth viewers to expand access and training.

## Market Segmentations

### By Product

- Scanners: Brightfield, fluorescence, and hybrid WSI systems
- Software/Platforms: Image management, viewers, analytics/AI, workflow orchestration
- Storage & IT Infrastructure: On-prem, cloud, and hybrid
- Services: Implementation, validation, managed services, and consulting

### By Application

- Clinical Diagnostics (primary/secondary sign-out, tumor boards)
- Research & Drug Discovery (toxicologic pathology, biomarker R&D)
- Education & Training

### By End User

- Hospitals & Reference Laboratories
- Pharma/Biotech & CROs
- Academic & Research Institutes

### By Deployment

- On-premises
- Cloud
- Hybrid

### By Region

- North America: Early adoption, strong regulatory frameworks, enterprise imaging investments
- Europe: IVDR momentum, national cancer strategies, cross-border collaborations
- Asia Pacific: Rapid lab digitization, expanding oncology services, local manufacturing
- Latin America & Middle East & Africa: Emerging deployments via hub-and-spoke and public-private models

### Why Buy This Report?

- Granular Market Sizing & Forecasts (2024–2035) with scenario analysis
- Competitive Landscape & Benchmarking of leading vendors and innovators
- Technology Roadmaps for WSI, AI/ML, and enterprise imaging integration
- Regulatory & Reimbursement Snapshots across key regions
- Actionable Recommendations for go-to-market, partnerships, and deployment models

To buy this comprehensive market research report, click here to inquire@

[https://www.transparencymarketresearch.com/checkout.php?rep\\_id=1540&ltype=S](https://www.transparencymarketresearch.com/checkout.php?rep_id=1540&ltype=S)

### Conclusion

The digital pathology market is entering a scale-up phase as AI, interoperable platforms, and enterprise imaging converge to transform diagnostics and research. Despite challenges around interoperability, validation, and data management, vendors and healthcare providers are unlocking significant gains in turnaround time, consistency, and access to expertise. With a projected value exceeding US\$ 4.2 Bn by 2035, stakeholders positioned around AI-enabled workflows, cloud scalability, and oncology-centric use cases stand to capture outsized growth.

## More Trending Research Reports-

- Anatomic Pathology Market - <https://www.transparencymarketresearch.com/anatomic-pathology-market.html>
- Digital Radiology Market - <https://www.transparencymarketresearch.com/global-digital-radiology-market.html>
- Digital Wound Measurement Devices Market - <https://www.transparencymarketresearch.com/digital-wound-measurement-devices-market.html>
- Digital Forensics Market - <https://www.transparencymarketresearch.com/digital-forensics-market.html>
- Atraumatic Needles Market - <https://www.transparencymarketresearch.com/atraumatic-needles-market.html>
- Surgical Equipment Market - <https://www.transparencymarketresearch.com/surgical-equipment-market.html>
- Mechanical Ventilators Market - <https://www.transparencymarketresearch.com/mechanical-ventilators-market.html>
- Biotechnology Market - <https://www.transparencymarketresearch.com/biotechnology-market-report.html>
- Clinical Laboratory Services Market - <https://www.transparencymarketresearch.com/clinical-laboratory-services-market-report.html>

## About Us Transparency Market Research

Transparency Market Research, a global market research company registered at Wilmington, Delaware, United States, provides custom research and consulting services. The firm scrutinizes factors shaping the dynamics of demand in various markets. The insights and perspectives on the markets evaluate opportunities in various segments. The opportunities in the segments based on source, application, demographics, sales channel, and end-use are analysed, which will determine growth in the markets over the next decade.

Our exclusive blend of quantitative forecasting and trends analysis provides forward-looking insights for thousands of decision-makers, made possible by experienced teams of Analysts, Researchers, and Consultants. The proprietary data sources and various tools & techniques we use always reflect the latest trends and information. With a broad research and analysis capability, Transparency Market Research employs rigorous primary and secondary research techniques in all of its business reports.

## Contact Us

Transparency Market Research Inc.  
CORPORATE HEADQUARTER DOWNTOWN,  
1000 N. West Street,

Suite 1200, Wilmington, Delaware 19801 USA

Tel: +1-518-618-1030

USA - Canada Toll Free: 866-552-3453

Atil Chaudhari

Transparency Market Research Inc.

+ +1 518-618-1030

[email us here](#)

Visit us on social media:

[LinkedIn](#)

[YouTube](#)

[X](#)

[Other](#)

---

This press release can be viewed online at: <https://www.einpresswire.com/article/840876182>

EIN Presswire's priority is source transparency. We do not allow opaque clients, and our editors try to be careful about weeding out false and misleading content. As a user, if you see something we have missed, please do bring it to our attention. Your help is welcome. EIN Presswire, Everyone's Internet News Presswire™, tries to define some of the boundaries that are reasonable in today's world. Please see our Editorial Guidelines for more information.

© 1995-2025 Newsmatics Inc. All Right Reserved.