

# **Whole Slide Imaging Market Report by Technology (Scanners, IT Infrastructure, Viewer, Image Management System), Application (Immunohistochemistry, Telepathology, Cytopathology, Hematopathology), End User (Academic Institute, Research, and Others), and Region 2024-2032**

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## **Abstracts**

The global whole slide imaging market size reached US\$ 769.7 Million in 2023. Looking forward, IMARC Group expects the market to reach US\$ 1,902.9 Million by 2032, exhibiting a growth rate (CAGR) of 10.4% during 2024-2032.

Whole slide imaging (WSI) is scanning glass slides used to produce high-resolution and precise digital images of tissue sections. It comprises a focusing unit, camera, illumination systems, scanners, viewers, image management system, and microscopic optical components. WSI utilizes a specialized scanner to digitize glass slides and generate large digital images that are analyzed, stored, and shared through the virtual slide viewer. It is widely used in immunohistochemistry, telepathology, hematopathology, and cytopathology. WSI assists in improving accuracy, speed of analysis, increasing productivity, reducing errors, and providing reliable and convenient results. As a result, it is widely used across academic and research institutes, biotechnology and pharmaceutical companies, and hospitals and clinics.

Whole Slide Imaging Market Trends:

The significant growth in the healthcare industry and the rising focus on patient safety across the globe are the prime factors creating a positive outlook for the market. Additionally, the rising prevalence of cancer due to the changing lifestyles, genetic

mutation, and increasing smoking and alcohol habits is favoring the market growth. In line with this, WSI is extensively used in diagnostic procedures for suspected skin, lungs, and breast cancer, which is further providing an impetus to the market growth. Moreover, various technological advancements, such as the integration of artificial intelligence (AI) and machine learning (ML) to assist in various diseases and diagnoses and provide precision medicine delivery, are providing a considerable boost to the market growth. In line with this, the widespread adoption of whole slide imaging in immunohistochemistry (IHC) to observe protein expression in tissue samples and detect antigens in the cells is positively impacting the market growth. Other factors, such as the increasing product demand in drug discovery and extensive research and development (R&D) activities, are anticipated to drive the market growth.

#### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global whole slide imaging market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on technology, application and end user.

#### Breakup by Technology:

- Scanners
- IT Infrastructure
- Viewer
- Image Management System

#### Breakup by Application:

- Immunohistochemistry
- Telepathology
- Cytopathology
- Hematopathology

#### Breakup by End User:

- Academic Institute
- Research
- Others

#### Breakup by Region:

North America

United States

Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

#### Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being 3DHISTECH Ltd., Beckman Coulter Inc. (Danaher Corporation), F. Hoffmann-La Roche AG, General Electric Company, Hamamatsu Photonics KK, Huron Technologies International, Inspirata Inc., Koninklijke Philips N.V., Mikroscan Technologies Inc., Olympus Corporation, Perkinelmer Inc. and Visiopharm A/S.

#### Key Questions Answered in This Report:

How has the global whole slide imaging market performed so far and how will it perform in the coming years?

What has been the impact of COVID-19 on the global whole slide imaging market?

What are the key regional markets?

- What is the breakup of the market based on the technology?
- What is the breakup of the market based on the application?
- What is the breakup of the market based on the end user?
- What are the various stages in the value chain of the industry?
- What are the key driving factors and challenges in the industry?
- What is the structure of the global whole slide imaging market and who are the key players?
- What is the degree of competition in the industry?

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