

Global Whole Slide Imaging Market Size study & Forecast, by Products (Scanners, Image management system, Software Service, Viewers) by Application (Telepathology, Cytopathology, Immunohistochemistry, Hematopathology Cancer, Cardiology) by End User (Biotechnology and Pharmaceutical Companies, Academic and Research Institutes Hospitals and Clinics) and Regional Analysis, 2023-2030

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Abstracts

Global Whole Slide Imaging Market is valued approximately USD xxx billion in 2022 and is anticipated to grow with a healthy growth rate of more than xxx over the forecast period 2023-2030. Whole slide imaging (WSI), also known as virtual microscopy, is an advanced digital imaging technique used by pathologists. It involves capturing high-resolution digital images of entire tissue sections from glass slides and transforming them into a digital format. The whole slide imaging market is driven by several factors, including the increasing use of imaging technology in drug discovery, advancements in digital imaging, the preference for virtual slides over physical ones, and the rising prevalence of cancer worldwide. The demand for whole slide imaging systems is also driven by the need for quick, clear, and high-resolution digital images in pathology, ensuring patient safety and diagnostic accuracy. The growing prevalence of chronic diseases, especially cancer, further contributes to the adoption of these systems in disease diagnostics.

Immunohistochemistry (IHC) is a widely used technique in pathology to detect antigens in tissue samples. It allows for the observation of protein expression and is utilized in

biotech companies for research and drug development. According to the Clinicaltrials.gov in April 7 2022, reported 410,319 registered studies, consisting of 169,924 medication or biologic studies, and 61,961 recruiting studies. These studies span across all 50 states and 220 countries, indicating a global demand for clinical research. Additionally, technological developments in the field of whole slide imaging technology and growing popularity of virtual/digital slides offer lucrative growth opportunities for players in the whole slide imaging market. However, the high cost of Whole Slide Imaging stifles market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Whole Slide Imaging Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominated the market in 2022 with largest market share owing to rising investment from key players and growing US government funding for healthcare are driving the demand for whole slide imaging, particularly in the United States. For instance, the Congressional Budget Office, 2021, published Federal funding for the National Institute of Health (NIH) has exceeded USD 700 billion, and the FDA granted six funding grants in 2020 for clinical trials and pharmaceutical development. Asia Pacific is expected to fastest growing significantly during the forecast period, owing to rise in drug discovery research and increased awareness of the benefits of whole slide imaging have led to an increase in government initiatives to adopt advanced technologies and invest in research and development experiments.

Major market player included in this report are:

Indica Laboratories

Definiens AG

Olympus Corporation

Leica Microsystems GmbH

Nikon Corporation

Inspirata India Private Limited

Mikroscan Technologies

3DHISTECH Kft.

Hamamatsu Photonics K. K

Philips Healthcare

Recent Developments in the Market:

In March 2022, Leica Microsystems introduced Mica, the world's first Microhub, which revolutionizes microscopy by offering a fully integrated imaging solution. With automation tools, machine learning software, and advanced fluorescence unmixing techniques, Mica simplifies the imaging workflow and makes microscopy accessible to researchers of all levels of experience.

Global Whole Slide Imaging Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered - Products, Application, End User, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Product:

Scanners

Image management system

Software Service

Viewers

By Application:

Telepathology

Cytopathology

Immunohistochemistry

Hematopathology Cancer

Cardiology

By End User:

Biotechnology and Pharmaceutical Companies

Academic and Research Institutes

Hospitals and Clinics

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

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Rest of Middle East & Africa

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