

3D Sensing and Imaging Market, by Type, Technology (LiDAR, Structured Light, Time-of-Flight), Application (Medical Imaging, Industrial Automation), and End-use Industry (Consumer Electronics, Healthcare, Others), and Geography—Global Forecast to 2030

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Abstracts

3D Sensing and Imaging Market, by Type, Technology (LiDAR, Structured Light, Time-of-Flight), Application (Medical Imaging, Industrial Automation), and End-use Industry (Consumer Electronics, Healthcare, Others), and Geography—Global Forecast to 2030

The research report titled '3D Sensing and Imaging Market, by Type, Technology (LiDAR, Structured Light, Time-of-Flight), Application (Medical Imaging, Industrial Automation), and End-use Industry (Consumer Electronics, Healthcare, Others), and Geography—Global Forecast to 2030,' provides an in-depth analysis of the 3D sensing and imaging market in five major geographies and emphasizes on the current market trends, sizes, and share, recent developments, and forecasts till 2030. The global 3D sensing and imaging market is projected to reach \$115.3 billion by 2030 from \$25.3 billion in 2023, at a CAGR of 24.2% from 2023 to 2030.

3D sensing is the process of obtaining length, width, and depth information electronically and using this data to improve the interfaces between humans, devices, and the world. It is the process of creating a three-dimensional image of an object and involves using unique cameras and software to capture photos and create a 3D model of the object.

The growth of the 3D sensing & imaging market is driven by the rising demand for devices with 3D sensing capabilities, growing preference for VCSELs over LEDs, rising demand for ADAS, and growing use of 3D imaging sensors across industries.

Moreover, rising demand for optical 3D sensing capabilities in industrial applications, increasing government initiatives supporting industrial automation, rising awareness regarding the benefits of 3D imaging technology in medical applications, and increasing integration of 3D accelerometers in smartphones and gaming consoles.

However, the high installation cost restrains the market's growth to some extent. Additionally, the increasing need to improve the accuracy, effectiveness, and robustness of 3D sensing technologies poses challenges for the 3D sensing & imaging market growth. Besides, the increasing adoption of liquid lenses for better vision and the rise in adoption of Industry 4.0 technologies are the key trends observed in the 3D sensing & imaging market.

In this study, the market is segmented based on type, technology/modality, application, end-use industry, and geography, including its subsegments and geography. The report has considered five major geographies: North America, Asia-Pacific, Europe, Latin America and Middle East & Africa.

Based on type, the 3D sensing and imaging market is segmented into 3D imaging and 3D sensing. The 3D sensing segment is projected to register the highest CAGR during the forecast period. The high growth of this region is driven by the increasing demand for 3D sensing and LiDAR applications in automotive, consumer, and industrial customers, the growing adoption of 3D sensors in gaming appliances and medical imaging solutions, and the rising adoption of sensors for autonomous robots.

Based on technology/modality, the 3D sensing and imaging market is segmented into LiDAR, stereoscopic imaging/vision, time-of-flight (ToF), structured light, laser triangulation, radar, ultrasound, X-ray, and other technologies. The structured light segment is expected to record the highest CAGR during the forecast period. The growth of this segment is driven by an increasing focus on quality and 3D modeling.

Based on application, the 3D sensing and imaging market is segmented into security & surveillance, mapping & imaging, industrial automation, medical imaging, navigation, scanning, surveying, and other applications. The security & surveillance segment is expected to record the highest CAGR during the forecast period. The rising adoption of 3D sensing and imaging technology for security and surveillance is expected to drive the segment's growth.

Based on end-use industry, the 3D sensing and imaging market is segmented into automotive, transportation & logistics, consumer electronics, defense and aerospace,

healthcare, manufacturing & warehouses, media & entertainment, architecture and engineering & construction, and other end-use industries. The healthcare segment is projected to register the highest CAGR during the forecast period. In the healthcare industry, 3D sensing and imaging such as augmented reality (AR), 3D optical scanning and ultrasound play a vital role in medical imaging, such as computed tomography (CT), magnetic resonance imaging (MRI), and ultrasound.

Based on geography, the 3D sensing and imaging market is segmented into North America, Europe, Asia-Pacific, Latin America, and the Middle East & Africa. Asia-Pacific is slated to register the highest CAGR during the forecast period. The growth of the 3D sensing and imaging market in Asia-Pacific is attributed to the increasing investments in the manufacturing and healthcare industries and the increasing adoption of 3D technologies across various sectors.

The key players operating in the global 3D sensing and imaging market are STMicroelectronics N.V. (Switzerland), Infineon Technologies AG (Germany), Microchip Technology Inc. (U.S.), Viavi Solutions Inc. (U.S.), Rockwell Automation, Inc. (U.S.), KEYENCE CORPORATION (Japan), Suteng Innovation Technology Co., Ltd. (China), Autodesk Inc. (U.S.), Cognex Corporation (U.S.), OMNIVISION Technologies, Inc. (U.S.), SICK AG (Germany), Panasonic Holdings Corporation (Japan), Sony Group Corporation (Japan), Lumentum Holdings Inc. (U.S.), FARO Technologies, Inc. (U.S.), Occipital, Inc. (U.S.), LMI Technologies Inc. (Canada) (A Subsidiary of TKH Group N.V.), Trimble Inc. (U.S.), and Balluff GmbH (Germany).

Key Questions Answered in the Report:

Which are the high-growth market segments in terms of type, technology/modality, application, end-use industry, and geography?

What is the historical market size for the 3D sensing and imaging market across the globe?

What are the market forecasts and estimates for the period 2023–2030?

What are the major drivers, restraints, opportunities, and challenges in the global 3D sensing and imaging market?

Who are the major players in the market, and what are their market shares?

How is the competitive landscape for the global 3D sensing and imaging market?

What are the recent developments in the global 3D sensing and imaging market?

What are the different strategies adopted by the major players in the market?

What are the key geographic trends, and which are the high-growth countries?

Who are the local emerging players in the global 3D sensing and imaging market, and how do they compete with other players?

Scope of the Report

3D Sensing and Imaging Market—by Type

3D Imaging

3D Sensing

3D Sensing and Imaging Market—by Technology/Modality

LiDAR

Stereoscopic Imaging/Vision

Time-of-Flight (ToF)

Structured Light

Laser Triangulation

Radar

Ultrasound

X-ray

Other Technologies

3D Sensing and Imaging Market—by Application

Security & Surveillance

Mapping & Imaging

Industrial Automation

Medical Imaging

Navigation

Scanning

Surveying

Other Applications

3D Sensing and Imaging Market—by End-use Industry

Automotive, Transportation & Logistics

Consumer Electronics

Smartphones

Cameras

Laptops

Televisions

Scanners

Other Consumer Electronics

Defense and Aerospace

Healthcare

Manufacturing & Warehouses

Industrial Robotics

AGV

Other Units

Media & Entertainment

Film

Gaming

Other Media Forms

Architecture and Engineering & Construction

Other End-use Industries

3D Sensing and Imaging Market—by Geography

North America

U.S.

Canada

Asia-Pacific

China

Japan

India

South Korea

Australia & New Zealand

Singapore

Thailand

Malaysia

Indonesia

Rest of Asia-Pacific

Europe

Germany

U.K.

France

Italy

Spain

Sweden

Netherlands

Poland

Rest of Europe

Latin America

Brazil

Mexico

Rest of Latin America

Middle East & Africa

UAE

Saudi Arabia

Israel

Rest of Middle East & Africa

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