

Global Non-contact 3D Measurement Technologies Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Non-contact 3D Measurement Technologies market size was valued at USD million in 2023 and is forecast to a readjusted size of USD million by 2030 with a CAGR of % during review period.

Non-contact 3D measurement technologies refer to methods and devices that capture three-dimensional information from objects without physical contact. These technologies employ various sensing techniques, such as laser scanning, structured light, or photogrammetry, to collect precise spatial data points on the surface of an object. By analyzing the collected data, a detailed and accurate 3D representation of the object can be generated. Non-contact 3D measurement is widely used in industries like manufacturing, quality control, reverse engineering, and metrology, where high precision and efficiency are essential. This approach is particularly valuable for measuring complex and delicate objects, as it eliminates the need for physical probes or direct contact, ensuring non-destructive and efficient measurement processes.

The development of non-contact 3D measurement technologies has seen significant progress, driven by advancements in sensors, imaging, and computational methods. These technologies enable the precise and efficient measurement of objects without physical contact, offering advantages in various industries. Techniques such as laser scanning, structured light, and photogrammetry use sensors to capture data points, creating detailed 3D models. LiDAR (Light Detection and Ranging) systems utilize laser beams for accurate distance measurements. Emerging technologies, including time-of-flight cameras and depth-sensing technologies, further enhance non-contact 3D measurement capabilities. Applications span manufacturing, quality control, robotics,

medical imaging, archaeology, and virtual reality, offering versatile solutions for capturing spatial information with high accuracy and speed.

The Global Info Research report includes an overview of the development of the Non-contact 3D Measurement Technologies industry chain, the market status of Industrial (3D Laser Scanners, Structured Light Scanners), Medical (3D Laser Scanners, Structured Light Scanners), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Non-contact 3D Measurement Technologies.

Regionally, the report analyzes the Non-contact 3D Measurement Technologies markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Non-contact 3D Measurement Technologies market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Non-contact 3D Measurement Technologies market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Non-contact 3D Measurement Technologies industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., 3D Laser Scanners, Structured Light Scanners).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Non-contact 3D Measurement Technologies market.

Regional Analysis: The report involves examining the Non-contact 3D Measurement Technologies market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Non-contact 3D Measurement Technologies market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Non-contact 3D Measurement Technologies:

Company Analysis: Report covers individual Non-contact 3D Measurement Technologies manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Non-contact 3D Measurement Technologies. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Industrial, Medical).

Technology Analysis: Report covers specific technologies relevant to Non-contact 3D Measurement Technologies. It assesses the current state, advancements, and potential future developments in Non-contact 3D Measurement Technologies areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Non-contact 3D Measurement Technologies market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Non-contact 3D Measurement Technologies market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

3D Laser Scanners

Structured Light Scanners

Photogrammetry Solutions

Optical CMM Scanners

Market segment by Application

Industrial

Medical

Aerospace

Others

Major players covered

Hexagon

FARO Technologies

ZEISS

Keyence

Creaform

Nikon Metrology

LMI Technologies

Perceptron

Cognex

Exact Metrology

Shining 3D

Alicona Imaging

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Non-contact 3D Measurement Technologies product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Non-contact 3D Measurement Technologies, with price, sales, revenue and global market share of Non-contact 3D Measurement Technologies from 2019 to 2024.

Chapter 3, the Non-contact 3D Measurement Technologies competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Non-contact 3D Measurement Technologies breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and Non-contact 3D Measurement Technologies market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Non-contact 3D Measurement Technologies.

Chapter 14 and 15, to describe Non-contact 3D Measurement Technologies sales channel, distributors, customers, research findings and conclusion.

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