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Global 3D Time of flight (ToF) Sensors Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

https://marketpublishers.com/r/GF848B1DE06EN.html
Date: June 2024
Pages: 108
Price: US$ 3,480.00 (Single User License)
ID: GF848B1DE06EN

Abstracts

According to our (Global Info Research) latest study, the global 3D Time of flight (ToF) Sensors market size was valued at USD 1457 million in 2023 and is forecast to a readjusted size of USD 4964.3 million by 2030 with a CAGR of 19.1% during review period.

3D time-of-flight (ToF) sensor is part of the 3D ToF image sensor family. The device combines ToF sensing with an optimally-designed analog-to-digital converter (ADC) and a versatile, programmable timing generator (TG).

The built-in TG controls the reset, modulation, readout, and digitization sequence. The programmability of the TG offers flexibility to optimize for various depth-sensing performance.

Global 3D Time-of-flight Image Sensors key players include Texas Instruments, STMicroelectronics, PMD Technologies, Infineon, PrimeSense (Apple), etc. Global top five manufacturers hold a share about 70%.

Europe is the largest market, with a share about 40%, followed by Japan and North America, both have a share over 45 percent.

In terms of product, QVGA ToF Image Sensor is the largest segment, with a share about 50%. And in terms of application, the largest application is Consumer Electronics, followed by Robotics and Drone, Machine Vision and Industrial Automation, Entertainment, Automobile, etc.

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The Global Info Research report includes an overview of the development of the 3D Time of flight (ToF) Sensors industry chain, the market status of Consumer Electronics (Half-QQVGA ToF Image Sensor, QVGA ToF Image Sensor), Robotics and Drone (Half-QQVGA ToF Image Sensor, QVGA ToF Image Sensor), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of 3D Time of flight (ToF) Sensors.

Regionally, the report analyzes the 3D Time of flight (ToF) Sensors 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 3D Time of flight (ToF) Sensors market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the 3D Time of flight (ToF) Sensors 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 3D Time of flight (ToF) Sensors 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., Half-QQVGA ToF Image Sensor, QVGA ToF Image Sensor).

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 3D Time of flight (ToF) Sensors market.

Regional Analysis: The report involves examining the 3D Time of flight (ToF) Sensors 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 3D Time of flight (ToF) Sensors market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to 3D Time of flight (ToF) Sensors:

Company Analysis: Report covers individual 3D Time of flight (ToF) Sensors 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 3D Time of flight (ToF) Sensors This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Consumer Electronics, Robotics and Drone).

Technology Analysis: Report covers specific technologies relevant to 3D Time of flight (ToF) Sensors. It assesses the current state, advancements, and potential future developments in 3D Time of flight (ToF) Sensors areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the 3D Time of flight (ToF) Sensors 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

3D Time of flight (ToF) Sensors 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

Half-QQVGA ToF Image Sensor

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QVGA ToF Image Sensor

Others

Market segment by Application

Consumer Electronics

Robotics and Drone

Machine Vision and Industrial Automation

Entertainment

Automobile

Others

Major players covered

Texas Instruments

STMicroelectronics

PMD Technologies

Infineon

PrimeSense (Apple)

MESA (Heptagon)

Melexis

ifm Electronic

Canesta (Microsoft)

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Espros Photonics

TriDiCam

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 3D Time of flight (ToF) Sensors product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 3D Time of flight (ToF) Sensors, with price, sales, revenue and global market share of 3D Time of flight (ToF) Sensors from 2019 to 2024.

Chapter 3, the 3D Time of flight (ToF) Sensors competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 3D Time of flight (ToF) Sensors 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.

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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 3D Time of flight (ToF) Sensors 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 3D Time of flight (ToF) Sensors.

Chapter 14 and 15, to describe 3D Time of flight (ToF) Sensors sales channel, distributors, customers, research findings and conclusion.

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