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Global Time-of-Flight Sensors for Automotive In-Cabin Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

https://marketpublishers.com/r/G3CF71B89DB5EN.html
Date: January 2024
Pages: 72
Price: US$ 3,480.00 (Single User License)
ID: G3CF71B89DB5EN

Abstracts

According to our (Global Info Research) latest study, the global Time-of-Flight Sensors for Automotive In-Cabin market size was valued at USD 17 million in 2023 and is forecast to a readjusted size of USD 105.1 million by 2030 with a CAGR of 29.2% during review period.

One of the main drivers for achieving the ultimate goal of fully autonomous vehicles is to increase road safety. A recent report by the NHTSA estimated that over 90% of all accidents are due to driver errors, so eliminating these will make for much safer roads. While mass-produced fully automated vehicles remain some way in the future, iToF can make a significant contribution to road safety by Driver Monitoring the driver and his / her behavior.

Driver fatigue is a significant issue and the high resolution attainable with iToF is able to see if the driver has their eyes on the road ahead, whether they are yawning excessively, or even struggling to keep their eyes open. Detecting each of these and suggesting (or even enforcing) a break can potentially avoid accidents and save lives. Other driver behaviors such as not holding the steering wheel properly, eating while driving or using a mobile device in a non-hands-free manner can also be identified and a warning issued or action taken, ultimately bringing the vehicle to a safe stop if needs be.

Airbags have saved many, many lives and are a valuable feature in almost all vehicles these days. However, there have been some cases, especially with infants or the elderly where they have caused injury or worse. ToF is able to detect the size of and estimate the weight of Passenger Safetys, modifying the airbag deployment as

necessary. In the event that there is no Passenger Safety in the seat, ToF can prevent unnecessary airbag deployment.

Many modern hybrid vehicles will start and run the internal combustion engine to charge the batteries when they are almost depleted. As it is easy to leave a vehicle with the ignition ‘on’ as the old-fashioned ignition key is a thing of the past, a vehicle can automatically start when unattended. This is potentially dangerous, especially in a confined space, but can easily be prevented by ToF-based occupant detection.

Alongside the improvements in vehicle safety, the same ToF system is also able to add a whole range of comfort and convenience inside the cabin for the benefit of drivers and Passenger Safetys. For example, seats could be moved and seat belts could be brought closer when a Passenger Safety gets into the vehicle, storage compartments could be illuminated when a hand reaches in that direction or the operation of the infotainment system could be modified based upon the number and location of vehicle occupants.

As vehicles become more sophisticated, the human-machine interfaces (HMI) in the cockpit must become more complex. A ToF sensor in conjunction with a light projector could provide a control panel on any available surface, providing greater convenience and flexibility.

Global Time-of-Flight Sensors for Automotive In-Cabin key players include Melexis, Infineon Technologies, etc. Global top two manufacturers hold a share over 95%.

Europe is the largest market, with a share about 60%, followed by Asia Pacific, and North America, both have a share about 40 percent.

In terms of application, the largest application is Gesture Control, followed by Driver Monitor, Passenger Safety.

The Global Info Research report includes an overview of the development of the Time-of-Flight Sensors for Automotive In-Cabin industry chain, the market status of Gesture Control (Wafer, Lead Frame), Driver Monitor (Wafer, Lead Frame), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Time-of-Flight Sensors for Automotive In-Cabin.

Regionally, the report analyzes the Time-of-Flight Sensors for Automotive In-Cabin markets in key regions. North America and Europe are experiencing steady growth,

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driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Time-of-Flight Sensors for Automotive In-Cabin market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Time-of-Flight Sensors for Automotive In-Cabin 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 Time-of-Flight Sensors for Automotive In-Cabin 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 Raw Materials (e.g., Wafer, Lead Frame).

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 Time-of-Flight Sensors for Automotive In-Cabin market.

Regional Analysis: The report involves examining the Time-of-Flight Sensors for Automotive In-Cabin 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 Time-of-Flight Sensors for Automotive In-Cabin market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Time-of-Flight Sensors for Automotive In-Cabin:

Company Analysis: Report covers individual Time-of-Flight Sensors for Automotive In-

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Cabin 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 Time-of-Flight Sensors for Automotive In-Cabin This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Gesture Control, Driver Monitor).

Technology Analysis: Report covers specific technologies relevant to Time-of-Flight Sensors for Automotive In-Cabin. It assesses the current state, advancements, and potential future developments in Time-of-Flight Sensors for Automotive In-Cabin areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Time-of-Flight Sensors for Automotive In-Cabin 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

Time-of-Flight Sensors for Automotive In-Cabin market is split by Raw Materials and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Raw Materials, and by Application in terms of volume and value.

Market segment by Raw Materials

Wafer

Lead Frame

Photoresist

Other

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Market segment by Application

- Gesture Control
- Driver Monitor
- Passenger Safety

Major players covered

- Melexis
- Infineon Technologies
- Ams

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 Time-of-Flight Sensors for Automotive In-Cabin product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Time-of-Flight Sensors for Automotive In-Cabin, with price, sales, revenue and global market share of Time-of-Flight Sensors for

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Automotive In-Cabin from 2019 to 2024.

Chapter 3, the Time-of-Flight Sensors for Automotive In-Cabin competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Time-of-Flight Sensors for Automotive In-Cabin 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 Raw Materials and application, with sales market share and growth rate by raw materials, 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 Time-of-Flight Sensors for Automotive In-Cabin market forecast, by regions, raw materials 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 Time-of-Flight Sensors for Automotive In-Cabin.

Chapter 14 and 15, to describe Time-of-Flight Sensors for Automotive In-Cabin sales channel, distributors, customers, research findings and conclusion.

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