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Global Biometric Vehicle Access Market Research Report- Forecast 2032

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Description:

Biometric Vehicle Access Market Overview:

Biometric Vehicle Access Market Size was valued at USD 0.3 Billion in 2022. The Biometric Vehicle Access Market industry is projected to grow from USD 0.34 Billion in 2023 to USD 0.9 Billion by 2032, exhibiting a compound annual growth rate (CAGR) of 14.06% during the forecast period (2023 - 2032). Increasing demand for connected vehicles and information technology deployment are the key market drivers enhancing the market growth.

Biometric Vehicle Access Market Overview

Source: Secondary Research, Primary Research, MRFR Database and Analyst Review

Biometric Vehicle Access Market Trends

Rising demand for premium and luxury vehicles fuels market growth.

The increased demand for premium and luxury automobiles is driving the market CAGR for biometric vehicle access. Biometric car entry systems are frequently seen as a luxury feature and can be found in high-end vehicles. Automakers are implementing more biometric solutions into their vehicles to suit this need as more consumers are willing to pay a premium for luxury features.

Furthermore, biometric vehicle access systems can be employed to provide drivers with a more personalized and easy experience. Some systems, for example, can alter the seat, mirrors, and climate control settings based on the driver's biometric profile. This can make driving more pleasant and enjoyable, which is especially significant in premium and luxury vehicles.

Another driver of market expansion for biometric vehicle access is the increased worry about vehicle theft and carjacking. Biometric vehicle access systems offer a higher level of security than standard key and fob systems, making them an appealing option for consumers worried about the safety of their automobiles.

For instance, some high-end vehicles have fingerprint scanners that only allow the registered driver to start the car. This stops car thieves from stealing the vehicle because they would need to obtain the registered driver's fingerprint to start the car. This might provide consumers with peace of mind if they live in locations where vehicle theft and carjacking are common.

In recent years, the growing popularity of connected cars has fueled the demand for sophisticated technologies such as IoT, AI, and machine learning, and so on. Furthermore, the demand for self-driving autonomous automobiles to bring comfort and convenience to the driver is driving the connected car technology forward. The deployment of Vehicle-to-Vehicle (V2V) and Vehicle-to-Infrastructure (V2I) technologies for improved mobility communication, on the other hand, is boosting the biometric vehicle access system market during the forecast year.

The use of modern information technology such as human-machine interface (HMI), passenger window touchscreens, and so on is driving market expansion. Furthermore, the implementation of iris recognition technology will expand the prospects for biometric vehicle access systems. The HMI also enables the driver's dashboard to function similarly to an iPad, with a voice-activated interface for browsing information from the cloud. These positive attributes will benefit the automobile industry, hence promoting market expansion.

Biometric Vehicle Access Market Segment Insights:

Biometric Vehicle Access Authentication Technology Insights

The Biometric Vehicle Access Market segmentation, based on Authentication Technology includes Finger Print, Voice Recognition, and Hand Geometry. In 2022, the finger print category had the greatest market share in the Biometric Vehicles Access System market. With the advancement of

technology, the automotive industry is leading the way in using fingerprint recognition technology for increasing vehicle safety, which has fueled the expansion of this market. The use of fingerprint recognition technology will result in a low-cost authentication system that will allow drivers to unlock and start cars without difficulty. This technology is mostly dependent on each individual driver's specific settings, which reduces the chance of car theft. This key element has improved the fingerprint recognition system in vehicles, which will drive market expansion.

Biometric Vehicle Access Technology Insights

The Biometric Vehicle Access Market segmentation, based on Technology, includes Iris Recognition, Face Recognition. The iris recognition system is projected to grow dramatically as the demand for safety features grows. Because faces can be reproduced, face recognition technologies are prone to fraud. Face cloning fraud has been exposed numerous times in the past. As a result, demand for iris or retina identification systems has increased. The sector is still in its early stages, but significant growth is expected by 2032.

Figure 1: Biometric Vehicle Access Market, by Technology, 2022 & 2032 (USD Billion)

Biometric Vehicle Access Market, by Technology, 2022 & 2032

Source: Secondary Research, Primary Research, MRFR Database and Analyst Review

Biometric Vehicle Access Technology Insights

The Biometric Vehicle Access Market segmentation, based on Technology, includes Passenger Car, Battery Electric Vehicle. In 2022, the passenger cars category is predicted to have the biggest market share in the worldwide biometrics market. The high stake can be attributed to the growing demand for vehicle safety and security systems, as well as the increase in passenger car production in developed and emerging countries.

Biometric Vehicle Access Regional Insights

By region, the study provides the market insights into North America, Europe, Asia-Pacific and Rest of the World. North America is predicted to occupy a considerably higher proportion of the worldwide automotive biometrics vehicle access system market due to the region's expanding disposable income and increased customer adaptability to such incredibly technologically advanced items.

Further, the major countries studied in the market report are The US, Canada, German, France, the UK, Italy, Spain, China, Japan, India, Australia, South Korea, and Brazil.

Figure 2: Biometric Vehicle Access Market Share By Region 2022 (USD Billion)

Biometric Vehicle Access Market Share By Region 2022
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Source: Secondary Research, Primary Research, MRFR Database and Analyst Review

Europe Biometric Vehicle Access Market accounts for the second-largest market share. The market is rapidly expanding as a result of increased passenger automobile sales in this region. Further, the German Biometric Vehicle Access Market held the largest market share, and the UK Biometric Vehicle Access Market was the fastest growing market in the European region

The Asia-Pacific Biometric Vehicle Access Market is expected to grow at the fastest CAGR from 2023 to 2032. This is because of increased demand for luxury passenger cars. Moreover, China's Biometric Vehicle Access Market held the largest market share, and the Indian Biometric Vehicle Access Market was the fastest growing market in the Asia-Pacific region.

Biometric Vehicle Access Key Market Players& Competitive Insights

Leading market players are investing heavily in research and development in order to expand their product lines, which will help the Biometric Vehicle Access Market, grow even more. Market participants are also undertaking a variety of strategic activities to expand their global footprint, with important market developments including new product launches, contractual agreements, mergers and acquisitions, higher investments, and collaboration with other organizations. To expand and survive in a more competitive and rising market climate, Biometric Vehicle Access industry must offer cost-effective items.

Manufacturing locally to minimize operational costs is one of the key business tactics used by manufacturers in the global Biometric Vehicle Access industry to benefit clients and increase the market sector. In recent years, the Biometric Vehicle Access industry has offered some of the most significant advantages to medicine. Major players in the Biometric Vehicle Access Market, including Voxx International, Fingerprint Cards Ab, Synaptics Incorporated, Methode Electronics, Voicebox Technologies, and Hid-Global and others, are attempting to increase market demand by investing in research and development operations.

Fingerprint Cards is a Swedish biometrics firm that designs and manufactures biometric solutions. Lennart Carlson founded Fingerprint Cards in 1997. Their products include fingerprint sensors, algorithms, packaging innovations, and biometric identification software. Bo Löfberg pioneered the creation of the fingerprint sensor in the 1980s. During his latter years, he focused on developing a fingerprint sensor, which he later patented before passing away in 1986. The sensor was barely halfway constructed when he died, but the license was sold to Lennart Carlson, who later founded

Fingerprint Cards. In 2019, Fingerprints Cards AB has introduced its first AEC-Q100 compliant biometric capacitive fingerprint sensor that meets automotive industry standards. This launch has benefited the automotive sector by providing increased security and convenience to the vehicle and the passenger.

Hyundai Motor Company, sometimes known as Hyundai Motors, is a South Korean multinational automobile manufacturer located in Seoul, South Korea, that was formed in 1967. Currently, the firm controls 33.88 percent of Kia Corporation and entirely owns two marques, namely Genesis Motor, a luxury automotive subsidiary, and Ioniq, an electric vehicle sub-brand. The Hyundai Motor Group is made up of these three brands. December 2020, Hyundai Motor Corp. created an improved biometric system for automobiles that allows drivers to unlock and start the engine with a light touch. Furthermore, Hyundai's fingerprint recognition technology allows only authorized drivers to start and stop the car, reducing the risk of vehicle theft.

Key Companies in the Biometric Vehicle Access market include

- Safran S.A (France)
- Hitachi Ltd. (Japan)
- Fujitsu Ltd. (Japan)
- Fingerprint Cards Ab
- Methode Electronics
- Synaptics Incorporated
- Voicebox Technologies
- Voxx International
- Hid-Global

Biometric Vehicle Access Industry Developments

September 2021, Genesis announced the release of its own "Face Connect" technology, which will allow automobiles to recognize human faces and open and lock doors without the use of a smart key. Genesis has incorporated unique technologies in its vehicles from its start, enhancing the relationship between humans and vehicles. Face Connect, coupled with its Fingerprint Authentication System, is expected to maximize customer convenience as a technology that assists the automobile in communicating with drivers.

May 2020, Fujitsu announced collaboration with Fingerprint Cards AB, a Swedish biometrics company, to develop a new biometric system that will allow drivers to access their automobiles using fingerprint recognition technology. The device, dubbed "Fujitsu Smart Biometric," is intended to be very secure, with the ability to detect if a person is wearing a glove or if their fingerprint is being imitated.

November 2020, Safran S.A announced a collaboration with Valeo, a French automotive supplier, to develop a new biometric system that will allow drivers to access their vehicles using face and fingerprint recognition technology. The device, dubbed "Drive4U," is intended to be very secure, with the ability to detect if a person is wearing a mask or if their face or fingerprint is being replicated.

Biometric Vehicle Access Market Segmentation:

Biometric Vehicle Access Market By Authentication Technology Outlook

- Finger Print
- Voice Recognition
- Hand Geometry

Biometric Vehicle Access Market By Technology Outlook

- Iris Recognition
- Face Recognition

Biometric Vehicle Access Market By Vehicle Type Outlook

- Passenger Car
- Battery Electric Vehicle

Biometric Vehicle Access Regional Outlook

- North America
 - US
 - Canada
- Europe
 - Germany
 - France
 - UK
 - Italy
 - Spain
 - Rest of Europe
- Asia-Pacific
 - China
 - Japan
 - India
 - Australia
 - South Korea
 - Australia
 - Rest of Asia-Pacific
- Rest of the World
 - Middle East
 - Africa
 - Latin America

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