

Global Gesture Recognition Market Size Study & Forecast, by Technology (Touch-based, Touchless), by Industry (Automotive, Consumer Electronics, Healthcare, Others), and Regional Analysis, 2023-2030

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Abstracts

Global Gesture Recognition Market is valued at approximately USD 17.29 billion in 2022 and is anticipated to grow with a healthy growth rate of more than 18.8% over the forecast period 2023-2030. Gesture recognition involves the technological analysis and real-time interpretation of human gestures and motions, which are captured by cameras or sensors. Gesture recognition systems typically use a combination of cameras, depth sensors, and machine learning algorithms to detect and analyze gestures. The primary goal of this innovation is to foster instinctive and natural interaction between individuals and machines, allowing users to steer devices using gestures rather than conventional input approaches. The Gesture Recognition Market is expanding because of factors such as the growing trend of digitization across various industries, increasing implementation of the Internet of Things (IoT), rising demand for contactless interfaces, and advancements in camera and sensor technology by the key market players.

The surge in demand for smart devices among consumers is primarily attributed to the market demand during the estimated period. Gesture recognition is gaining high traction in smart devices such as smartphones, tablets, smart TVs, and wearable technology as it offers an alternative to traditional interfaces, attracting consumers looking for innovative ways to interact with their devices. According to Statista, in 2022, there were around 8,298.7 million pieces of consumer electronics accounted for globally, which is projected to constantly rise and is expected to reach 9,181 million pieces by the year 2027. Accordingly, the rapid proliferation of smartphones, tablets, smart TVs, and wearable devices has created a demand for novel and convenient input methods, which, in turn, augment the market growth. Moreover, the rapid development of artificial

intelligence and machine learning technology, as well as the increasing technological advancements for efficient HMI and high demand for cost-effective features present various lucrative opportunities over the forecast years. However, the high installation costs and lack of standardization are hindering the market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Gesture Recognition Market study include Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominated the market in 2022 owing to the growing adoption of smart devices, advancement in sensor technology, and the presence of key market players such as Microsoft Corporation, Apple Inc., and Intel Corporation. Whereas, Asia Pacific is expected to grow at the highest CAGR over the forecast years.

The growing demand for advanced human-machine interface technologies, high penetration of consumer electronics, as well as growing industrial digitization in emerging countries including India and China are significantly propelling the market demand across the region.

Major market players included in this report are:

Alphabet Inc.

Apple Inc.

Cipia Vision Ltd.

Infineon Technologies AG

Intel Corporation

Microchip Technology Incorporated

Microsoft Corporation

Qualcomm Technologies Incorporated

Sony DepthSensing Solutions SA

Synaptics Incorporated

Recent Developments in the Market:

In April 2023, Elmos presented sensor IC solutions at Sensor+Tesy, showcasing innovative concepts for smart switches for sophisticated gesture control. This technology improves automotive and industrial applications by enabling seamless human-machine interfaces through natural gestures.

In January 2023, PreAct Technologies, a supplier of flash LIDAR technology, acquired the software firm Gestos with the aim of incorporating Gestos' advanced gesture detection and computer vision technologies into its extensive activity tracking, device management, and spatial awareness system.

In July 2022, JMicron Technology Corp.'s subsidiary KaikuTek Inc. unveiled its first contactless gesture recognition system at CES 2022. The K60168 solution provides an easy-to-use, affordable, and adaptable method for interacting with numerous machines that previously needed direct physical touch.

Global Gesture Recognition Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered - Technology, Industry, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Technology:

Touch-based

Touchless

By Industry:

Automotive

Consumer Electronics

Healthcare

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

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