

Gesture Recognition and Touchless Sensing Market with COVID-19 Impact Analysis by Technology (Touch-based, Touchless), Type, Product (Touchless Biometric Equipment, Touchless Sanitary Equipment), Industry and Geography - Global Forecast to 2026

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Abstracts

The gesture recognition and touchless sensing market is projected to reach USD 37.6 billion by 2026 from USD 13.6 billion in 2021; it is expected to grow at a CAGR of 22.6% from 2021 to 2026. North America has the largest market share for gesture recognition and touchless sensing. Whereas, APAC has the highest growth rate and is expected to grow at the highest CAGR during the forecast period owing to the rapidly changing face of technology and customer needs in high-potential markets such as China, Japan, South Korea, and India. Due to advancements in technology and the emergence of new business models as well as new infrastructural developments in the developing cities of the region, the gesture recognition and touchless sensing market is exhibiting an upbeat outlook. The growing awareness of hygiene and advancement of security standards would further fuel the adoption of gesture recognition and touchless sensings in APAC. Furthermore, growth in end-use sectors and mounting investments from government bodies are also favoring the growth of the gesture recognition and touchless sensing market in the region.

The touchless technology segment is expected to have the highest growth during the forecast period

Touchless technology combines linguistics with wireless signals to analyze, judge, and integrate human gestures and sensing by using intelligent algorithms. Gesture recognition is achieved with the help of machine learning technologies. Touchless technology is affected by some objective factors, such as the user's position and non-

line of sight conditions. Touchless user interface (TUI) is an emerging type of technology concerning gesture control. TUI is the process of commanding the computer via body motion and gestures without touching a keyboard, mouse, or screen. Touchless gesture recognition in a vehicle improves safety while driving. The less time the driver spends navigating through menus, the more time focused on the road. The touchless technology market is expected to dominate the gesture recognition and touchless sensing market, by technology, during the forecast period. The large share of this market segment can be attributed to the larger customer base for touchless technologies. The consumer electronics industry has largely adopted touch-based gesture recognition technology due to its low cost and increased use by original equipment manufacturers. Touch-based technology is also largely used in gaming and automotive applications due to the emerging human-machine interaction technology for touch-based gesture recognition.

The high growth rate throughout the forecast period for touchless devices is due to the enhanced user experience while operating touchless devices.

The online type segment, of the gesture recognition market, is projected to hold a larger share during the forecast period

Online gesture recognition is used to scale or rotate a tangible object and control a machine or a computer in real-time. Also called direct manipulation gestures, it lets the user interact with objects and impose changes viewable as done to them. Online gestures are regarded as direct manipulation, such as scaling and rotating. In contrast, offline gestures are usually processed after the interaction is finished—for example, a circle is drawn to activate a context menu. Offline gesture recognition is a relatively newer technology than online gesture recognition, owing to which the rate of recognition in offline gestures is lower than that of online gestures.

The gesture recognition and touchless sensing market in APAC is projected to have the highest CARG during the forecast period (2021-2026)

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The gesture recognition and touchless sensing market in APAC comprises China, Japan, South Korea, India, and the Rest of APAC, which primarily includes Australia, Singapore, Malaysia and Thailand. It is expected to be the fastest-growing market for gesture recognition and touchless sensing during the forecast period. Developing

countries in the Asia Pacific region also have vast growth potential and a favorable environment for product manufacturers. Therefore, the touchless sensing market in the Asia Pacific region is expected to grow at the highest rate during the forecast period. The increasing number of smart city and smart infrastructure projects undertaken by the governments will create several opportunities for gesture recognition and touchless sensing in the next few years. The increasing awareness regarding hygiene and advanced security standards in emerging countries, such as India and China, are propelling the growth of the gesture recognition and touchless sensing market. Moreover, governments give prime importance to security in countries such as China, Japan, and South Korea. Moreover, the growing demand for gesture-enabled products, such as smartphones, laptops and tablets, and smart TVs, is expected to propel the growth of the gesture recognition market in APAC. The biometrics market in the APAC region is set to grow owing to technological advancements in biometric technology and the low costs of biometric equipment. The increasing security concerns in the region's major countries have driven the need for accurate and reliable biometric systems. The e-passport program has picked up pace in many countries, and the Aadhaar number initiative by the Indian government has created an increasing demand for touchless biometrics. The demand for touchless biometrics is on the rise owing to the accuracy of biometric systems. Contactless biometric solutions are more hygienic as compared to touch-based biometric systems. The huge demand for smartphones and tablets is a prominent driver for the gesture recognition market in the APAC region. This is evident with the number of products launched from the OEMs in the last two years.

Breakdown of profiles of primary participants:

By Company Type: Tier 1 = 30%, Tier 2 = 50%, and Tier 3 = 20%

By Designation: C-level Executives = 25%, Directors = 35%, and Others = 40%

By Region: North America = 35%, Europe = 30%, APAC = 25%, and RoW = 10%

The major companies in the gesture recognition and touchless sensing market are Microsoft Corporation (US), Microchip Technology Inc. (US), Apple Inc. (US), Google LLC (US), Sony Depthsensing Solutions SA/NV (Belgium), Infineon Technologies (Germany), Cognitec Systems GmbH (Germany), GestureTek (Canada), OmniVision Technologies (US), IrisGuard (UK), Cippa (Israel), Elliptic Laboratories (Norway), XYZ Interactive (Canada), pmdtechnologies ag (Germany), Oblong Industries Inc. (US),

Gesture Research (India), PointGrab Inc. (Israel), ESPROS Photonics (Switzerland), HID Global Corporation (US), OMRON Corporation (Japan), Ultraleap (UK), German Autolabs (Germany), iProov Ltd. (UK), Qualcomm (US) and Toposens (Germany).

Research Coverage:

This report segments the gesture recognition and touchless sensing market with COVID-19 Impact Analysis by Technology (Touch-based, Touchless), Type (Offline, Online), Product (Touchless Biometric Equipment, Touchless Sanitary Equipment), Industry and Geography – Global Forecast to 2026

Reasons to Buy the Report:

This report includes statistics pertaining to the gesture recognition and touchless sensing market based on technology, type, product, industry and region, along with their respective market sizes

Major drivers, restraints, opportunities, and challenges for the gesture recognition and touchless sensing market have been provided in detail in this report

The report includes illustrative segmentation, analysis, and forecast for the gesture recognition and touchless sensing market based on its segments.

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About

The need for advanced and accurate security solutions in all the countries of the world will drive the market. These biometric systems are more accurate than the touch-based biometric systems since they are independent of touch. This eliminates the error of the image captured due to the skin distortions when pressed against the screen. Moreover, in case of iris recognition and face recognition, the features of the iris or the face do not change over the years.

The need for touch-less sanitary equipment is increasing rapidly and is expected to increase at a higher rate. This can be attributed to an increase in water shortages across the globe and the consequent demand for plumbing equipment that enable efficient utilization of water. The need for such equipment is a trigger from the customers' need as well as the companies trying to differentiate themselves from others in the same market.

The global touch-less sensing market is estimated to reach \$xx billion by 2020, up from Sxx billion in 2012. The market will grow at a CAGR of Xx% calculated from 2013 till 2020. The touch-less biometrics market constitutes the major share of the total market and is expected to maintain a larger one for the next seven years. The touch-less sanitary equipment market is expected to grow at a high CAGR of xx% from 2013 till 2020, to contribute revenue of Sxx billion by the end of 2020.

The touch-less biometric solutions provide accurate data and are more hygienic as compared to the touch-based biometric systems. The key players in touch-less biometric solutions are TST Biometrics (Germany), Touch-less Biometric Systems (Germany), and IrisGuard (Switzerland).

The gesture recognition market was commercialized in the latter half of 2010 with the launch of the Microsoft Xbox Kinect. Since then, a number of developments have taken place to realize the potential of the gesture recognition market. The global gesture recognition market revenue and shipments are shown in the table below.

The global gesture recognition market revenue is expected to grow from \$xx million in 2013 to reach \$xx billion by the end of 2018, increasing at a CAGR of xx% from 2013 till 2018. The market shipments are expected to reach xx billion units by 2018, growing at a CAGR of xx%, calculated from 2013 till 2018.

The shipments include numbers of consumer electronics, retail, automotive, and others (home appliances, automation) while the revenue includes all the applications as well as those from standalone devices like Leap Motion, MYO, and others.

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