

Gesture Recognition Touchless Sensing Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Technology (2D, 3D, Sensors), By Product (Touch-Based Gesture Recognition, Touch-Less Gesture Recognition), By Application (Entertainment, Consumer Electronics, Healthcare, Hospitality, Retail, Others), By Region & Competition, 2019-2029F

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Abstracts

The Global Gesture Recognition Touchless Sensing Market was valued at USD 19.07 Billion in 2023 and is predicted to experience robust growth in the forecast period with a CAGR of 22.73% through 2029.

The Global Gesture Recognition Touchless Sensing Market has witnessed substantial growth and innovation, driven by the increasing demand for touchless interaction methods across various industries. This technology, which enables users to interact with digital interfaces and devices without physical contact, has become integral to consumer electronics, healthcare, automotive, and more. The market's dominance is fueled by several key factors. In the post-pandemic era, hygiene and safety concerns have led to a surge in demand for touchless solutions, especially in public spaces and shared environments. Gesture recognition and touchless sensing technologies offer a hygienic and intuitive way to control devices, access information, and navigate interfaces without physical touch. As a result, applications like contactless check-ins, touchless kiosks, and hands-free medical equipment control have become commonplace.

The consumer electronics segment stands out as a dominant force in the market, with gesture recognition integrated into smartphones, tablets, gaming consoles, and smart home devices, offering users a more immersive and interactive experience. Gaming and entertainment benefit from touchless interfaces, while the smart home ecosystem is evolving with touchless control of IoT devices.

Advancements in sensor technology and the integration of gesture recognition in virtual and augmented reality applications further contribute to the market's growth. With ongoing innovation, touchless sensing technologies are creating more creative and interactive user interfaces, catering to the demand for user-friendly and touchless interactions. Global Gesture Recognition Touchless Sensing Market is marked by its emphasis on hygiene, consumer electronics integration, gaming, smart homes, VR/AR applications, and innovative interfaces. As technology continues to advance, touchless sensing solutions are expected to play an increasingly significant role in revolutionizing the way individuals interact with digital devices and the world around them.

Key Market Drivers

Hygiene and Safety in the Post-Pandemic Era

The ongoing global health crisis has accelerated the demand for touchless sensing technologies in various industries. The need for hygiene and safety has become paramount, and touchless interfaces offer a solution to reduce the risk of disease transmission. In public spaces, touchless controls for elevators, doors, and kiosks are being implemented to minimize physical contact. In healthcare, gesture recognition systems are being used for contactless patient monitoring and control of medical devices, reducing the risk of cross-contamination. The emphasis on hygiene and safety is a major driver for the adoption of touchless sensing technologies.

Integration in Consumer Electronics

The integration of gesture recognition and touchless sensing in consumer electronics is a significant driver for the market. Smartphones, gaming consoles, and smart home devices now commonly feature gesture control capabilities. Users can navigate user interfaces, control media, and interact with their devices using hand gestures or other touchless methods. This trend is driven by the desire for more intuitive and immersive user experiences. As consumer electronics continue to evolve and offer more sophisticated touchless features, the market for touchless sensing technologies expands.

Advancements in AI and Machine Learning

The continuous advancements in artificial intelligence (AI) and machine learning (ML) are major drivers for gesture recognition and touchless sensing technologies. These technologies enable more accurate and responsive gesture recognition systems. AI-powered algorithms can interpret a wider range of gestures and adapt to individual user preferences. They learn from user interactions, improving recognition accuracy and expanding the range of recognized gestures. This increased precision and responsiveness are driving the adoption of touchless sensing in diverse applications, from gaming and virtual reality to industrial automation and healthcare.

Growth in Automotive Applications

The automotive industry is a prominent driver for the Gesture Recognition Touchless Sensing market. The demand for touchless interfaces in vehicles is on the rise, driven by the need for safer and more intuitive human-machine interactions. Gesture recognition is used for tasks like controlling in-car infotainment systems, adjusting climate settings, and enabling hands-free operation. It enhances driver monitoring and contributes to improved vehicle safety. With the development of autonomous vehicles and the integration of advanced driver assistance systems (ADAS), touchless sensing technologies are playing a pivotal role in enhancing the driving experience.

Expanding Applications in Healthcare

The healthcare sector is another major driver for touchless sensing technologies. Gesture recognition and touchless controls are being deployed in a variety of medical applications, from touchless check-ins at healthcare facilities to the operation of medical devices in sterile environments. In telemedicine and remote patient monitoring, touchless sensing systems enable physicians to interact with patients and medical equipment without physical contact. These technologies contribute to improving patient care, reducing the risk of contamination, and enhancing the overall healthcare experience. As the healthcare industry continues to embrace touchless sensing, it drives the market's growth.

Key Market Challenges

Technical Limitations and Accuracy

One of the primary challenges facing the Gesture Recognition Touchless Sensing market is the technical limitations of current systems. While gesture recognition and touchless sensing technologies have made significant progress, they are not always as accurate or reliable as desired. Recognizing complex or subtle gestures can be a challenge, leading to potential frustration for users. Inconsistent performance in different lighting conditions or environments can hinder widespread adoption. Furthermore, the need for hardware components like sensors and cameras with specific capabilities can increase the cost and complexity of implementation, making it challenging to achieve affordable and accessible solutions.

Standardization and Interoperability

The lack of standardization and interoperability is another significant challenge in the Gesture Recognition Touchless Sensing market. Different manufacturers and developers often use proprietary technologies and protocols, which can limit compatibility between devices and applications. This lack of standardization hampers the seamless integration of gesture recognition and touchless sensing across various platforms and systems. Users may find it frustrating when their preferred gesture control system is not compatible with other devices or applications they use. Addressing this challenge requires industry collaboration to establish common standards, fostering interoperability and a more cohesive ecosystem.

Privacy and Data Security

The increasing use of gesture recognition and touchless sensing technologies raises important concerns about privacy and data security. These systems often rely on capturing and processing sensitive data related to user movements and interactions. This data can be at risk of breaches or misuse, posing potential privacy violations. Ensuring the security of this data is a critical challenge, especially in applications where personal or confidential information is involved, such as healthcare or financial transactions. Striking the right balance between convenience and privacy protection is a pressing issue that requires robust security measures and transparent data handling practices.

User Acceptance and Behavioral Shift

The success of gesture recognition and touchless sensing technologies hinges on user acceptance and their willingness to adapt to new interaction methods. Changing user behavior and habits can be a challenging endeavor, particularly for established systems

that rely on traditional input methods. Users may resist adopting gesture controls due to a preference for tactile interfaces or concerns about the learning curve. This challenge requires effective user education and design strategies that encourage and facilitate a smooth transition to touchless interaction. Addressing user acceptance is crucial for the widespread adoption of these technologies.

Accessibility and Inclusivity

Ensuring that gesture recognition and touchless sensing systems are accessible and inclusive for all users is a key challenge. These technologies may pose barriers for individuals with disabilities or those with limited mobility. Designing gesture-based interfaces that accommodate a wide range of users, including those with physical or cognitive impairments, is a complex challenge. Additionally, ensuring that touchless systems do not exclude certain demographics is essential. Overcoming this challenge involves investing in research and development to create accessible and inclusive interfaces, as well as adhering to accessibility standards and guidelines.

Key Market Trends

Growing Demand in Healthcare and Medical Applications

The Gesture Recognition Touchless Sensing market is witnessing a significant surge in demand, particularly in healthcare and medical applications. The ongoing global health crisis has accelerated the adoption of touchless technologies to reduce the risk of disease transmission. In healthcare facilities, touchless sensors are being employed for tasks like contactless patient monitoring, touchless check-ins, and hands-free device control in operating rooms. The ability to interact with devices and interfaces without physical contact has become a key driver in healthcare, as it enhances safety and hygiene, ultimately improving patient care.

Integration in Automotive Industry

Another prominent trend is the integration of gesture recognition and touchless sensing in the automotive industry. As vehicles become increasingly connected and autonomous, the need for intuitive human-machine interfaces is growing. Gesture recognition systems are being used for functions like adjusting the car's audio, navigation, and climate control systems without taking hands off the steering wheel. Additionally, touchless sensing is essential for enhancing driver monitoring and improving vehicle safety. These technologies not only offer convenience but also

contribute to reducing distractions, ultimately enhancing road safety.

Expansion in Retail and E-commerce

Gesture recognition and touchless sensing are making headway in the retail and e-commerce sectors. In a world where contactless shopping is the new norm, retailers are leveraging these technologies to enhance the customer experience. Gesture recognition allows customers to interact with virtual interfaces, navigate product catalogs, and make selections without physical contact. It also enables touchless payment methods, reducing the need for physical point-of-sale (POS) systems. In e-commerce, touchless sensing is enhancing user experiences by enabling touchless browsing, product selection, and easy checkout. These technologies are set to reshape the future of retail and shopping experiences.

Advancements in AI and Machine Learning

The Gesture Recognition Touchless Sensing market is being propelled forward by significant advancements in artificial intelligence (AI) and machine learning (ML). These technologies are enhancing the accuracy and efficiency of gesture recognition systems. AI-powered algorithms can interpret a wider range of gestures and adapt to individual user preferences. As the training data for gesture recognition systems expands, these technologies can better recognize nuanced and complex movements. This trend is driving more precise and responsive touchless sensing applications in various domains, from gaming and smart homes to industrial settings.

Enhanced User Experiences in Smart Homes

The concept of the smart home is increasingly dependent on gesture recognition and touchless sensing. As smart home devices become more ubiquitous, users are seeking convenient and intuitive ways to control their connected environments. Gesture recognition enables homeowners to control lights, thermostats, and entertainment systems with simple hand movements or gestures, reducing the need for physical interfaces or remote controls. This trend is pushing manufacturers to integrate touchless sensing technologies into a variety of smart home devices, transforming living spaces into more interactive and efficient environments.

Segmental Insights

Product Insights

Touch-Less Gesture Recognition segment dominated in the global Gesture Recognition Touchless Sensing market in 2023. The COVID-19 pandemic has significantly heightened awareness and concerns surrounding hygiene and safety in public spaces and across various industries. Touch-Less Gesture Recognition technologies have emerged as a preferred solution to address these concerns. By eliminating the need for physical touch, these technologies help reduce the risk of disease transmission through frequently touched surfaces. This factor has accelerated the adoption of touch-less gesture recognition, particularly in high-touch environments such as public kiosks, elevators, and interactive displays in healthcare facilities.

Touch-Less Gesture Recognition finds substantial use in public and shared spaces where multiple individuals interact with the same surfaces or interfaces. It offers an intuitive and convenient way for users to control devices, access information, and navigate interfaces without physical contact. In airports, for instance, passengers can interact with self-service kiosks or check-in terminals without touching screens. In retail environments, customers can browse product catalogs and make selections without physically handling screens or devices, enhancing the overall experience.

The dominance of touch-less gesture recognition extends to the consumer electronics market, where it is increasingly integrated into smartphones, tablets, and smart home devices. Touch-less controls enable users to interact with their devices by simply waving a hand or making specific gestures. This feature enhances user convenience and adds a layer of sophistication to the user experience. Smartphones equipped with touch-less gesture recognition allow users to answer calls, take selfies, or navigate through content without touching the screen, promoting a more hygienic interaction.

Regional Insights

North America dominated the Global Gesture Recognition Touchless Sensing Market in 2023. North America, particularly the United States, has been a pioneer in developing and commercializing touchless sensing technologies. Early advancements in gesture recognition and touchless interfaces originated in North American research institutions and tech companies. This head start provided a significant competitive advantage, allowing North American companies to lead in developing and refining these technologies.

North America boasts a robust ecosystem of technology companies, startups, and research institutions. Silicon Valley, in California, is a global hub for innovation, with

numerous tech giants and startups focused on gesture recognition and touchless sensing. This concentration of expertise and resources has driven the region's leadership in the field.

North American companies and institutions have made substantial investments in research and development (R&D) related to gesture recognition and touchless sensing technologies. These investments have facilitated the development of more advanced and accurate systems, enabling the creation of touchless interfaces for various applications, from consumer electronics to healthcare and automotive.

North American companies prioritize user experience and innovation, driving the development of cutting-edge touchless sensing solutions. The region's emphasis on creating intuitive and immersive user interfaces has resulted in products that offer more natural and convenient interactions. This focus on innovation has enabled North American companies to continuously refine and expand the applications of gesture recognition and touchless sensing.

Key Market Players

Microsoft Corporation

Microchip Technology Inc.

Apple Inc.

HCL Technologies Limited

Sony Semiconductor Solutions Corporation

Infineon Technologies AG

Cognitec Systems GmbH

GestureTek Technologies

OmniVision Technologies, Inc.

IrisGuard Ltd

Report Scope:

In this report, the Global Gesture Recognition Touchless Sensing Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Gesture Recognition Touchless Sensing Market, By Technology:

2D

3D

Sensors

Gesture Recognition Touchless Sensing Market, By Product:

Touch-Based Gesture Recognition

Touch-Less Gesture Recognition

Gesture Recognition Touchless Sensing Market, By Application:

Entertainment

Consumer Electronics

Healthcare

Hospitality

Retail

Others

Gesture Recognition Touchless Sensing Market, By Region:

North America

United States

Canada

Mexico

Europe

Germany

France

United Kingdom

Italy

Spain

South America

Brazil

Argentina

Colombia

Asia-Pacific

China

India

Japan

South Korea

Australia

Middle East & Africa

Saudi Arabia

UAE

South Africa

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Gesture Recognition Touchless Sensing Market.

Available Customizations:

Global Gesture Recognition Touchless Sensing Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

Contents

1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Baseline Methodology
- 2.2. Key Industry Partners
- 2.3. Major Association and Secondary Sources
- 2.4. Forecasting Methodology
- 2.5. Data Triangulation & Validation
- 2.6. Assumptions and Limitations

3. EXECUTIVE SUMMARY

4. IMPACT OF COVID-19 ON GLOBAL GESTURE RECOGNITION TOUCHLESS SENSING MARKET

5. VOICE OF CUSTOMER

6. GLOBAL GESTURE RECOGNITION TOUCHLESS SENSING MARKET OVERVIEW

7. GLOBAL GESTURE RECOGNITION TOUCHLESS SENSING MARKET OUTLOOK

- 7.1. Market Size & Forecast
 - 7.1.1. By Value
- 7.2. Market Share & Forecast
 - 7.2.1. By Technology (2D, 3D, Sensors)
 - 7.2.2. By Product (Touch-Based Gesture Recognition, Touch-Less Gesture Recognition)
 - 7.2.3. By Application (Entertainment, Consumer Electronics, Healthcare, Hospitality, Retail, Others)

- 7.2.4. By Region (North America, Europe, South America, Middle East & Africa, Asia Pacific)
- 7.3. By Company (2023)
- 7.4. Market Map

8. NORTH AMERICA GESTURE RECOGNITION TOUCHLESS SENSING MARKET OUTLOOK

- 8.1. Market Size & Forecast
 - 8.1.1. By Value
- 8.2. Market Share & Forecast
 - 8.2.1. By Technology
 - 8.2.2. By Product
 - 8.2.3. By Application
 - 8.2.4. By Country
- 8.3. North America: Country Analysis
 - 8.3.1. United States Gesture Recognition Touchless Sensing Market Outlook
 - 8.3.1.1. Market Size & Forecast
 - 8.3.1.1.1. By Value
 - 8.3.1.2. Market Share & Forecast
 - 8.3.1.2.1. By Technology
 - 8.3.1.2.2. By Product
 - 8.3.1.2.3. By Application
 - 8.3.2. Canada Gesture Recognition Touchless Sensing Market Outlook
 - 8.3.2.1. Market Size & Forecast
 - 8.3.2.1.1. By Value
 - 8.3.2.2. Market Share & Forecast
 - 8.3.2.2.1. By Technology
 - 8.3.2.2.2. By Product
 - 8.3.2.2.3. By Application
 - 8.3.3. Mexico Gesture Recognition Touchless Sensing Market Outlook
 - 8.3.3.1. Market Size & Forecast
 - 8.3.3.1.1. By Value
 - 8.3.3.2. Market Share & Forecast
 - 8.3.3.2.1. By Technology
 - 8.3.3.2.2. By Product
 - 8.3.3.2.3. By Application

9. EUROPE GESTURE RECOGNITION TOUCHLESS SENSING MARKET OUTLOOK

- 9.1. Market Size & Forecast
 - 9.1.1. By Value
- 9.2. Market Share & Forecast
 - 9.2.1. By Technology
 - 9.2.2. By Product
 - 9.2.3. By Application
 - 9.2.4. By Country
- 9.3. Europe: Country Analysis
 - 9.3.1. Germany Gesture Recognition Touchless Sensing Market Outlook
 - 9.3.1.1. Market Size & Forecast
 - 9.3.1.1.1. By Value
 - 9.3.1.2. Market Share & Forecast
 - 9.3.1.2.1. By Technology
 - 9.3.1.2.2. By Product
 - 9.3.1.2.3. By Application
 - 9.3.2. France Gesture Recognition Touchless Sensing Market Outlook
 - 9.3.2.1. Market Size & Forecast
 - 9.3.2.1.1. By Value
 - 9.3.2.2. Market Share & Forecast
 - 9.3.2.2.1. By Technology
 - 9.3.2.2.2. By Product
 - 9.3.2.2.3. By Application
 - 9.3.3. United Kingdom Gesture Recognition Touchless Sensing Market Outlook
 - 9.3.3.1. Market Size & Forecast
 - 9.3.3.1.1. By Value
 - 9.3.3.2. Market Share & Forecast
 - 9.3.3.2.1. By Technology
 - 9.3.3.2.2. By Product
 - 9.3.3.2.3. By Application
 - 9.3.4. Italy Gesture Recognition Touchless Sensing Market Outlook
 - 9.3.4.1. Market Size & Forecast
 - 9.3.4.1.1. By Value
 - 9.3.4.2. Market Share & Forecast
 - 9.3.4.2.1. By Technology
 - 9.3.4.2.2. By Product
 - 9.3.4.2.3. By Application
 - 9.3.5. Spain Gesture Recognition Touchless Sensing Market Outlook
 - 9.3.5.1. Market Size & Forecast

- 9.3.5.1.1. By Value
- 9.3.5.2. Market Share & Forecast
 - 9.3.5.2.1. By Technology
 - 9.3.5.2.2. By Product
 - 9.3.5.2.3. By Application

10. SOUTH AMERICA GESTURE RECOGNITION TOUCHLESS SENSING MARKET OUTLOOK

- 10.1. Market Size & Forecast
 - 10.1.1. By Value
- 10.2. Market Share & Forecast
 - 10.2.1. By Technology
 - 10.2.2. By Product
 - 10.2.3. By Application
 - 10.2.4. By Country
- 10.3. South America: Country Analysis
 - 10.3.1. Brazil Gesture Recognition Touchless Sensing Market Outlook
 - 10.3.1.1. Market Size & Forecast
 - 10.3.1.1.1. By Value
 - 10.3.1.2. Market Share & Forecast
 - 10.3.1.2.1. By Technology
 - 10.3.1.2.2. By Product
 - 10.3.1.2.3. By Application
 - 10.3.2. Colombia Gesture Recognition Touchless Sensing Market Outlook
 - 10.3.2.1. Market Size & Forecast
 - 10.3.2.1.1. By Value
 - 10.3.2.2. Market Share & Forecast
 - 10.3.2.2.1. By Technology
 - 10.3.2.2.2. By Product
 - 10.3.2.2.3. By Application
 - 10.3.3. Argentina Gesture Recognition Touchless Sensing Market Outlook
 - 10.3.3.1. Market Size & Forecast
 - 10.3.3.1.1. By Value
 - 10.3.3.2. Market Share & Forecast
 - 10.3.3.2.1. By Technology
 - 10.3.3.2.2. By Product
 - 10.3.3.2.3. By Application

11. MIDDLE EAST & AFRICA GESTURE RECOGNITION TOUCHLESS SENSING MARKET OUTLOOK

11.1. Market Size & Forecast

11.1.1. By Value

11.2. Market Share & Forecast

11.2.1. By Technology

11.2.2. By Product

11.2.3. By Application

11.2.4. By Country

11.3. Middle East & Africa: Country Analysis

11.3.1. Saudi Arabia Gesture Recognition Touchless Sensing Market Outlook

11.3.1.1. Market Size & Forecast

11.3.1.1.1. By Value

11.3.1.2. Market Share & Forecast

11.3.1.2.1. By Technology

11.3.1.2.2. By Product

11.3.1.2.3. By Application

11.3.2. UAE Gesture Recognition Touchless Sensing Market Outlook

11.3.2.1. Market Size & Forecast

11.3.2.1.1. By Value

11.3.2.2. Market Share & Forecast

11.3.2.2.1. By Technology

11.3.2.2.2. By Product

11.3.2.2.3. By Application

11.3.3. South Africa Gesture Recognition Touchless Sensing Market Outlook

11.3.3.1. Market Size & Forecast

11.3.3.1.1. By Value

11.3.3.2. Market Share & Forecast

11.3.3.2.1. By Technology

11.3.3.2.2. By Product

11.3.3.2.3. By Application

12. ASIA PACIFIC GESTURE RECOGNITION TOUCHLESS SENSING MARKET OUTLOOK

12.1. Market Size & Forecast

12.1.1. By Value

12.2. Market Share & Forecast

- 12.2.1. By Technology
- 12.2.2. By Product
- 12.2.3. By Application
- 12.2.4. By Country
- 12.3. Asia Pacific: Country Analysis
 - 12.3.1. China Gesture Recognition Touchless Sensing Market Outlook
 - 12.3.1.1. Market Size & Forecast
 - 12.3.1.1.1. By Value
 - 12.3.1.2. Market Share & Forecast
 - 12.3.1.2.1. By Technology
 - 12.3.1.2.2. By Product
 - 12.3.1.2.3. By Application
 - 12.3.2. India Gesture Recognition Touchless Sensing Market Outlook
 - 12.3.2.1. Market Size & Forecast
 - 12.3.2.1.1. By Value
 - 12.3.2.2. Market Share & Forecast
 - 12.3.2.2.1. By Technology
 - 12.3.2.2.2. By Product
 - 12.3.2.2.3. By Application
 - 12.3.3. Japan Gesture Recognition Touchless Sensing Market Outlook
 - 12.3.3.1. Market Size & Forecast
 - 12.3.3.1.1. By Value
 - 12.3.3.2. Market Share & Forecast
 - 12.3.3.2.1. By Technology
 - 12.3.3.2.2. By Product
 - 12.3.3.2.3. By Application
 - 12.3.4. South Korea Gesture Recognition Touchless Sensing Market Outlook
 - 12.3.4.1. Market Size & Forecast
 - 12.3.4.1.1. By Value
 - 12.3.4.2. Market Share & Forecast
 - 12.3.4.2.1. By Technology
 - 12.3.4.2.2. By Product
 - 12.3.4.2.3. By Application
 - 12.3.5. Australia Gesture Recognition Touchless Sensing Market Outlook
 - 12.3.5.1. Market Size & Forecast
 - 12.3.5.1.1. By Value
 - 12.3.5.2. Market Share & Forecast
 - 12.3.5.2.1. By Technology
 - 12.3.5.2.2. By Product

12.3.5.2.3. By Application

13. MARKET DYNAMICS

13.1. Drivers

13.2. Challenges

14. MARKET TRENDS AND DEVELOPMENTS

15. COMPANY PROFILES

15.1. Microsoft Corporation

15.1.1. Business Overview

15.1.2. Key Revenue and Financials

15.1.3. Recent Developments

15.1.4. Key Personnel

15.1.5. Key Product/Services Offered

15.2. Microchip Technology Inc.

15.2.1. Business Overview

15.2.2. Key Revenue and Financials

15.2.3. Recent Developments

15.2.4. Key Personnel

15.2.5. Key Product/Services Offered

15.3. Apple Inc.

15.3.1. Business Overview

15.3.2. Key Revenue and Financials

15.3.3. Recent Developments

15.3.4. Key Personnel

15.3.5. Key Product/Services Offered

15.4. HCL Technologies Limited

15.4.1. Business Overview

15.4.2. Key Revenue and Financials

15.4.3. Recent Developments

15.4.4. Key Personnel

15.4.5. Key Product/Services Offered

15.5. Sony Semiconductor Solutions Corporation

15.5.1. Business Overview

15.5.2. Key Revenue and Financials

15.5.3. Recent Developments

- 15.5.4. Key Personnel
- 15.5.5. Key Product/Services Offered
- 15.6. Infineon Technologies AG
 - 15.6.1. Business Overview
 - 15.6.2. Key Revenue and Financials
 - 15.6.3. Recent Developments
 - 15.6.4. Key Personnel
 - 15.6.5. Key Product/Services Offered
- 15.7. Cognitec Systems GmbH
 - 15.7.1. Business Overview
 - 15.7.2. Key Revenue and Financials
 - 15.7.3. Recent Developments
 - 15.7.4. Key Personnel
 - 15.7.5. Key Product/Services Offered
- 15.8. GestureTek Technologies
 - 15.8.1. Business Overview
 - 15.8.2. Key Revenue and Financials
 - 15.8.3. Recent Developments
 - 15.8.4. Key Personnel
 - 15.8.5. Key Product/Services Offered
- 15.9. OmniVision Technologies, Inc.
 - 15.9.1. Business Overview
 - 15.9.2. Key Revenue and Financials
 - 15.9.3. Recent Developments
 - 15.9.4. Key Personnel
 - 15.9.5. Key Product/Services Offered
- 15.10. IrisGuard Ltd
 - 15.10.1. Business Overview
 - 15.10.2. Key Revenue and Financials
 - 15.10.3. Recent Developments
 - 15.10.4. Key Personnel
 - 15.10.5. Key Product/Services Offered

16. STRATEGIC RECOMMENDATIONS

17. ABOUT US & DISCLAIMER

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