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Depth Sensing Market by Component, Type, Technology (Stereo Vision, Structured Light, Time-of-Flight), Vertical (Automotive, Building Automation, Consumer Electronics, Industrial and Medical) and Geography - Global Forecast to 2023

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Abstracts

“Depth sensing market to grow at a CAGR of 11.89% during 2018–2023”

The depth sensing market is expected to grow from USD 4.40 billion in 2018 to USD 7.72 billion by 2023, at a CAGR of 11.89% between 2018 and 2023. Growing smartphone market, increasing adoption of dual-camera smartphones, rising use of depth sensing technology in AR-VR gaming applications, and increasing requirement for security and surveillance systems drive the growth of the depth sensing market. The key factor restraining the growth of the depth sensing market is the high manufacturing cost of depth sensing module.

“Depth sensing market for active depth sensing to hold largest share by 2023”

The depth sensing market for the active depth sensing is expected to account for the largest market share by 2023 as a result of increasing demand for accurate depth calculations required in various sectors such as consumer electronics, industrial, and automotive. In active depth sensing, illuminator and camera/lens module are used for object triangulation. A laser is a widely used illuminating source in active depth sensing; however, it is suitable in limited environments. To overcome this limitation, active depth sensing systems based on time-of-flight technology have been developed.

“Market for sensors to grow at highest CAGR during forecast period”

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The sensor depth sensing market is expected to grow at the highest CAGR during the forecast period. The market growth of this segment is attributed to the increasing demand for accurate depth data. IR sensors are mainly used in depth sensing. Infineon (Germany), Melexis (Belgium), STMicroelectronics (Switzerland), Omnivision (US), and Sony (Japan) are a few sensor manufacturers for depth sensing.

“APAC to hold largest share and expected to witness highest growth in depth sensing market in near future”

APAC is expected to hold the largest share of the depth sensing market by 2023. The depth sensing market in APAC is expected to grow at a high CAGR during the forecast period. The high growth of the market in this region can be attributed to increasing demand for depth sensing is from the consumer electronics application, which includes smartphones and tablets, laptops, and gaming headsets mainly from APAC.

In the process of determining and verifying the market size for several segments and subsegments gathered through secondary research, extensive primary interviews have been conducted with key people in the depth sensing market. The break-up of primary participants for the report has been shown below:

By Company Type: Tier 1 = 45 %, Tier 2 = 30%, and Tier 3 = 25%

By Designation: C-Level Executives = 40% and Managers = 60%

By Region: Americas = 30%, Europe = 40%, APAC = 20%, and RoW = 10%

The report also profiles the key players in this market. The prominent players profiled in this report are Texas Instruments (US), Infineon Technologies (Germany), Qualcomm (US), Occipital (US), Stereolabs (US), Creative (Singapore), pmdtechnologies (Germany), Sony Depthsensing Solutions (Belgium), BECOM BLUETECHNIX (Austria), Intel (US), Melexis (Belgium), Tower semiconductor (Israel), Vrmagic (Germany), Aquifi (US), Nerian Vision Technologies (Germany), Espros (Switzerland), Sunny Optical Technology (China), PrimeSense (Israel), ASUSTeK Computer (Taiwan), and LIPS Corporation (Taiwan).

Research Coverage:

This research report categorizes the overall depth sensing market based on component,

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type, technology, vertical, and geography. The report describes major drivers, restraints, challenges, and opportunities pertaining to the market as well as provides the value chain analysis.

Reasons to Buy the Report:

The report would help leaders/new entrants in this market in the following ways:

1. This report segments the depth sensing market comprehensively and provides the closest market size estimation for subsegments across different regions.
2. The report would help stakeholders understand the pulse of the market and provide them with information on key drivers, restraints, challenges, and opportunities for market growth.
3. This report would help stakeholders understand their competitors better and gain more insights to improve their position in the business. The competitive landscape section includes the information on the competitor’s ecosystem, product launches, acquisitions, partnerships, agreements, contracts, and collaborations.

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About

According to the new market research report on the "Depth Sensing Market by Component, Type, Technology (Stereo Vision, Structured Light, Time-of-Flight), Vertical (Automotive, Building Automation, Consumer Electronics, Industrial and Medical) and Geography - Global Forecast to 2023", this market is expected to grow from USD 4.40 Billion in 2018 to USD 7.72 Billion by 2023, at a CAGR of 11.89% between 2018 and 2023. The major factors driving the growth of the depth sensing market include the growing smartphone market, increasing adoption of dual-camera smartphones, rising use of depth sensing technology in AR-VR gaming applications, and increasing requirement of security and surveillance systems.

The report also profiles the most promising players in this market. The competitive landscape of the market presents an interesting picture where a large number of players have become a force to reckon with.

Texas Instruments (US),

Infineon Technologies (Germany),

Qualcomm (US),

Occipital (US),

Stereolabs (US),

Creative (Singapore),

pmdtechnologies (Germany),

Sony Depthsensing Solutions (Belgium),

BECOM BLUETECHNIX (Austria),

Intel (US),

Melexis (Belgium),

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Tower semiconductor (Israel),

Vrmagic (Germany),

Aquifi (US),

Nerian Vision Technologies (Germany),

Espros (Switzerland),

Sunny Optical Technology (China),

PrimeSense (Israel),

ASUSTeK Computer (Taiwan), and

LIPS Corporation (Taiwan) are the key players in this market.

Camera/lens module to hold largest market size by 2023

Camera/lens module is likely to propel the depth sensing market growth owing to the increasing demand for better quality images and applications such as face recognition, gesture control, and gaming.

Market for time-of-flight technology to grow at highest CAGR during 2018–2023

The depth sensing market for time-of-flight technology is likely to grow at the highest CAGR during the forecast period. The growth of the depth sensing market for time-of-flight technology can be attributed to the low power consumption, accurate depth data, and relatively simple software and hardware requirements.

Consumer electronics vertical to hold larger share of depth sensing market by 2023

Consumer electronics vertical is expected to contribute significantly to the depth sensing market. Owing to the increasing demand for applications such as face recognition, gesture control, AR-VR, and scanning. Depth sensing applications such as AR-VR gaming, infrastructure 3D model, and navigation mainly require 3D scanning or

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environmental scanning. To meet the demands of these applications, the market for scanning applications is expected to increase during the forecast period. For example, Creative (US) offers BlasterX Senz3D; this module is used for 3D scanning applications

Depth sensing market in APAC to grow at highest CAGR during 2018–2023

The market in APAC is expected to grow at the highest CAGR during the forecast period. APAC is the largest- and fastest-growing market because more than 95% of the demand for depth sensing is from consumer electronics applications, which includes smartphones and tablets, laptops, and gaming headsets.

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