

Vision Sensor Market Size and Forecast (2020 - 2030), Global and Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Type (Less than 3D and 3D), Application (Inspection, Gauging, Code Reading, and Others), and Industry Vertical (Automotive, Electronics, Industrial Manufacturing, Food & Beverages, and Others), and Geography

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Abstracts

The vision sensor market is expected to grow from US\$ 3.28 billion in 2022 to US\$ 8.33 billion by 2030; it is estimated to record a CAGR of 12.4% from 2022 to 2030.

Vision sensors are typically used to verify operational effectiveness and maintain product quality. They are also used in code reading, gauging, and localization applications to improve business productivity by streamlining operations. Numerous industries, including automotive, electronics and semiconductors, industrial manufacturing, food and packaging, and pharmaceutical, are using these sensors to detect defects in their production lines. The electrical sector and consumer electronics both use vision sensors to enhance device capabilities such as facial recognition, augmented reality (AR), gesture control, and object recognition. Vision sensors are highly used in smartphones for face unlocks, photo enhancement, and AR filters. Growing use of vision sensors in consumer electronics industries is accelerating the market growth. Also, the rising demand for fewer devices to check multiple defects in the production facilities has bolstered the vision sensor market growth. According to IDC Corporate, in August 2023, the smartphone shipment reached 1.15 billion units and is expected to increase at 4.5% year-over-year growth from 2024. Growing adoption of smartphones in the US, Western Europe, China, and India, among others, is expected to drive the vision sensor market in the near future. Further, the global vision sensor



market is anticipated to expand during the forecast period owing to growing analytical care and rising need for advanced implementations.

The high adoption of advanced technologies such as AI, IoT, ML, IIoT, and 5G drives the adoption rate of vision sensors in APAC. Increasing government investment and support for expanding automotive, electronics, industrial manufacturing, food and beverages, and other industries creates regional opportunities. For instance, according to Invest India, during April–September 2023, electronic goods exports in India reached US\$ 13.11 billion compared to US\$ 10.27 billion in April–September 2022, registering a growth of 27.62%. India's electronic goods export is projected to reach US\$ 120 billion by FY 2026, which increases the demand for vision sensors among electronics manufacturers. Moreover, the evolution of Industry 4.0 and industrial automation are anticipated to generate significant opportunities for market growth during the forecast period in the region.

Cognex Corporation, Teledyne Digital Imaging Inc., Keyence Corporation, Sick AG, Balluff GmbH, Baumer Holding AG, Pepperl+Fuchs, ifm electronic Gmbh, Hans Turck GmbH & Co. KG, and Leuze electronic GmbH & Co. KG. are among the key vision sensor market players profiled in this market study. Several other essential vision sensor market players were analyzed for a holistic view of the market and its ecosystem.

The overall vision sensor market size has been derived using both primary and secondary sources. To begin the vision sensor market research process, exhaustive secondary research has been conducted using internal and external sources to obtain qualitative and quantitative information related to the vision sensor market. The process also serves the purpose of obtaining an overview and market forecast of the vision sensor market growth with respect to all market segments. Also, multiple primary interviews have been conducted with industry participants and commentators to validate the data and gain more analytical insights about the topic. Participants of this process include industry experts such as VPs, business development managers, market intelligence managers, and national sales managers—along with external consultants such as valuation experts, research analysts, and key opinion leaders—specializing in the vision sensor market.



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