

Colour Detection Sensor Market by Type (Colour Sensor, Contrast Sensor, Luminescence Sensor, and Others), End User (Food and Beverage, Medical, Chemical, Textile, Automotive, Factory Automation, and Others), and Region 2023-2028

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Abstracts

The global colour detection sensor market size reached US\$ 1.96 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 3.09 Billion by 2028, exhibiting a growth rate (CAGR) of 7.6% during 2023-2028. The rising adoption of discreet RGB sensors instead of white ambient light sensors in smart devices, the expanding popularity of photography and videography, and continual technological advancements in the manufacturing of optical software represent some of the key factors driving the market.

Colour detection sensors illuminate a wide range of wavelengths, calculate the light ratio, and identify the red, blue, green, and white primary colors. The sensors illuminate the test objects with red, green, and blue LEDs. The chromaticity coordinates are calculated from the reflected radiation and compared with stored reference colours to detect the colour of a surface and cast LEDs on the object to be tested. Users can associate the specific characteristics of the target with the values stored in the internal memory of the sensor using a colour recognition channel. Depending on the intensity light ratio, a switching output is engaged if the colour values are within the set tolerance range. Colour detection sensors are useful for monitoring ambient light CCT and intensity, packaging and printing, plastics, and measuring chemical parameters.

Colour Detection Sensor Market Trends:

The market is primarily driven by the rising adoption of discreet RGB sensors instead of white ambient light sensors in smart devices. This can be attributed to the increasing



sales of smart devices, such as smartphones, laptops and tablets, across the globe. In line with this, the expanding popularity of photography and videography using digital cameras as well as built-in smartphone cameras is leading to the higher adoption of colour detection sensors on the global level. Moreover, rapid industrial automation has further increased the demand for optical sensors across numerous industry verticals, such as automotive and heavy machinery, which, in turn, is fueling the market growth. Continual technological advancements in the manufacturing of optical software resulting in the development of colour sensors with clear output of reading intensity and colour value are also impacting the market positively. In addition to this, the rapid product utilization in various quality control applications across the textile industry, including fabric colour tone identification, is acting as a significant growth-inducing factor for the market. Furthermore, the escalating demand for high colour intensity components and RGB sensor applications in agrotech for weed detection, changes in crop patterns, and pest protection is creating a positive market outlook. Some of the other factors contributing to the market include rapid urbanization, rapid digitization, increasing penetration of high-speed internet, inflating disposable income levels and extensive research and development (R&D) activities.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global colour detection sensor market, along with forecasts at the global, regional, and country level from 2023-2028. Our report has categorized the market based on type and end user.

Type Insights

Colour Sensor
Contrast Sensor
Luminescence Sensor
Others

The report has provided a detailed breakup and analysis of the colour detection sensor market based on the type. This includes colour sensor, contrast sensor, luminescence sensor, and others. According to the report, colour sensor accounted for the largest market share.

End User Insights

Food and Beverage



Others

A detailed breakup and analysis of the colour detection sensor market based on the end user has been provided in the report. This includes food and beverage, medical, chemical, textile, automotive, factory automation, and others. According to the report, food and beverage accounted for the largest market share.

Regional Insights:

North America
United States

Canada

Asia Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa



The report has also provided a comprehensive analysis of all the major regional markets that include North America (the United States and Canada); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Latin America (Brazil, Mexico, and others); and Middle East and Africa. According to the report, Asia Pacific was the largest market for colour detection sensor. Some of the factors driving the Asia Pacific colour detection sensor market include continual technological advancements in the manufacturing of optical software, presence of a large number of smartphone manufacturing facilities, rapid digitization, etc.

Competitive Landscape

The report has also provided a comprehensive analysis of the competitive landscape in the global colour detection sensor market. Detailed profiles of all major companies have also been provided. Some of the companies covered include ams-OSRAM AG, Balluff GmbH, Banner Engineering Corp., Baumer Holding AG, Datalogic S.p.A. (Hydra S.p.A.), Hamamatsu Photonics K.K., Jenoptik AG, Keyence Corporation, Omron Corporation, Panasonic Holdings Corporation, Pepperl+Fuchs SE, SensoPart Industriesensorik GmbH, Sick AG (Sick Holding Gmbh), etc. Kindly note that this only represents a partial list of companies, and the complete list has been provided in the report.

Key Questions Answered in This Report:

How has the global colour detection sensor market performed so far and how will it perform in the coming years?

What are the drivers, restraints, and opportunities in the global colour detection sensor market?

What are the key regional markets?

Which countries represent the most attractive colour detection sensor markets?

What is the breakup of the market based on the type?

What is the breakup of the market based on the end user?

What is the competitive structure of the global colour detection sensor market? Who are the key players/companies in the global colour detection sensor market?



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