

# Optical Sensor Market Trends 2022 | Share, Growth, Industry Report and Forecast to 2027

*The global optical sensor market size reached US\$ 19.2 Billion in 2021. By 2027, it will reach US\$ 36.15 Billion, growing at a CAGR of 10.70% (2022-2027).*

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According to the latest report by IMARC Group, titled "Optical Sensor Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2022-2027," offers a comprehensive

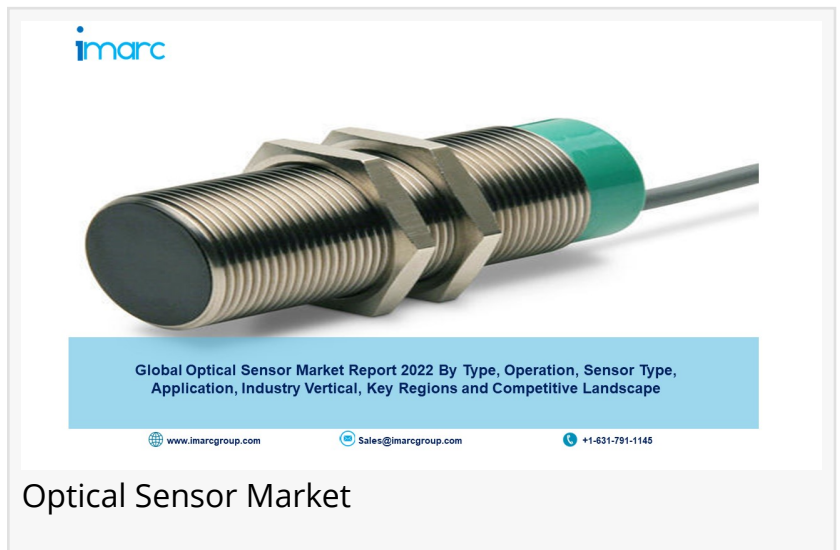
analysis of the industry, which comprises insights on the global [Optical Sensor market trends](#). The report also includes competitor and regional analysis, and contemporary advancements in the market.

The global optical sensor market size reached US\$ 19.2 Billion in 2021. Looking forward, IMARC Group expects the market to reach US\$ 36.15 Billion by 2027, exhibiting a growth rate (CAGR) of 10.70% during 2022-2027.

### What is Optical Sensor?

Optical sensors represent transducers that convert the physical amount of light to electric signals as per the requirement. Some of the commonly available varieties include internal and external optical sensors. The sensors that are used to collect and transmit a required quantity of light are called external, while internal sensors are utilized to measure or recognize the bends and variations in direction. They are resistant to high temperatures and chemically reactive environment and can operate in a dynamic wavelength range. In line with this, optical sensors possess excellent optical resolution. Consequently, they find extensive applications in several sectors, such as consumer electronics, automotive, transportation, healthcare, etc., across the globe.

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<https://www.imarcgroup.com/optical-sensor-market/requestsampl>

Note: We are regularly tracking the direct effect of COVID-19 on the market, along with the indirect influence of associated industries. These observations will be integrated into the report.

#### Optical Sensors Market Trends and Drivers:

The expanding consumer electronics industry and the escalating demand for energy-efficient devices are primarily driving the optical sensor market. Additionally, the rising investments in smart cities, buildings, and home projects are augmenting the utilization of building automation solutions that generally allow owners to monitor and minimize energy consumption and control lighting, which is further catalyzing the market growth.

Besides this, the compactness and versatility of the optical sensors make it feasible for numerous electronic equipment to include advanced features, including 3D mapping, gesture recognition, automatic brightness management, biometric identification, etc. Moreover, the widespread adoption of ambient sensors in automobiles for increasing visibility during adverse conditions, the automatic dimming of headlamps, detecting the position of curbs and nearby vehicles while parking, etc., is also positively influencing the global market.

Apart from this, the introduction of variants based on molecularly imprinted nanomaterials (MIP) at the nanoscale that exhibits enhanced performance as compared to their conventional-sized counterparts is anticipated to fuel the optical sensor market over the forecasted period.

#### Global Optical Sensors Market 2022-2027 Analysis and Segmentation:

##### Competitive Landscape:

The competitive landscape of the market has been studied in the report with the detailed profiles of the key players operating in the market.

##### Optical Sensors Companies:

ams-OSRAM AG, Analog Devices Inc., Broadcom Inc., Hamamatsu Photonics K.K., Honeywell International Inc., ifm electronic gmbh, Keyence Corporation, OMRON Corporation, Panasonic Holdings Corporation, Rockwell Automation Inc., Rohm Co. Ltd., STMicroelectronics, Texas Instruments Incorporated and Vishay Intertechnology Inc.

The report has segmented the market on the basis of type, operation, sensor type, application and industry vertical.

##### Breakup by Type:

- Intrinsic Optical Sensors
- Extrinsic Optical Sensors

#### Breakup by Operation:

- Through-Beam
- Retro-Reflective
- Diffuse Reflection

#### Breakup by Sensor Type:

- Fiber Optic Sensor
- [Image Sensors](#)
- Photoelectric Sensor
- Ambient Light and Proximity Sensor
- Others

#### Breakup by Application:

- Pressure and Strain Sensing
- Temperature Sensing
- Geological Survey
- Biometric
- Others

#### Breakup by Industry Vertical:

- Consumer Electronics
- Industrial
- Aerospace and Defence
- Oil and Gas
- Automotive
- Healthcare
- Others

#### Breakup by Region:

- 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

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If you want latest primary and secondary data (2022-2027) with Cost Module, Business Strategy, Distribution Channel, etc. Click request free sample report, published report will be delivered to

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Key highlights of the report:

- Market Performance (2016-2021)
- Market Outlook (2022- 2027)
- Porter's Five Forces Analysis
- Market Drivers and Success Factors
- SWOT Analysis
- Value Chain
- Comprehensive Mapping of the Competitive Landscape

If you need specific information that is not currently within the scope of the report, we can provide it to you as a part of the customization.

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Contact Us:

IMARC Services Private Limited.

30 N Gould St Ste R

Sheridan, WY 82801 USA – Wyoming

Email: Sales@imarcgroup.com

Tel No:(D) +91 120 433 0800

Americas:- +1 631 791 1145 | Africa and Europe :- +44-702-409-7331 | Asia: +91-120-433-0800,  
+91-120-433-0800

Elena Anderson

IMARC Services Private Limited

+1 6317911145

[email us here](#)

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