

Global 3D Imaging and Sensing Components Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global 3D Imaging and Sensing Components market size was valued at US\$ 13541 million in 2025 and is forecast to a readjusted size of US\$ 32961 million by 2032 with a CAGR of 13.5% during review period.

3D imaging and sensing components refer to the core optoelectronic devices, modules, and camera building blocks used to capture distance, depth, contours, point clouds, and spatial relationships of targets, covering ToF image sensors, iToF and dToF or SPAD depth-sensing chips, VCSEL-based illumination and related optical emitters, structured-light and stereo modules, as well as RGB-D and industrial 3D cameras. Their purpose is not merely to capture a conventional 2D image, but to convert light emission, reflection, reception, modulation and demodulation, and depth computation into stable, callable 3D data so that end devices can perceive space, understand distance, and recognize relationships among objects. Official product pages show that these products serve mobile and XR use cases such as facial recognition, spatial interaction, eye tracking, and immersive experiences, while also supporting robotics, AMRs, logistics, factory automation, and machine vision applications such as dimensioning, obstacle avoidance, picking and positioning, and quality inspection. They also extend into automotive scenarios including occupant monitoring, driver monitoring, near-range parking, and low-speed exterior perception. In terms of delivery format, the industry has already formed a multilayer supply structure spanning emitters, receivers, depth processing, module integration, and complete cameras. Upstream suppliers can sell VCSELs, image sensors, and optical components, while midstream players can sell standard modules, development kits, and industrial cameras, and downstream adoption is often driven through reference designs, joint development, and customized integration into

consumer electronics, automotive, and industrial customer programs. In essence, this segment is a critical intermediate layer connecting semiconductor optoelectronic devices, sensing hardware, and spatial intelligence applications.

The 3D imaging and sensing components industry is moving from single-device supply toward multilayer collaborative supply, and the center of gravity is no longer limited to one depth-sensing chip. Instead, it is forming a complete chain around emitters, receivers, depth processing, module integration, and complete cameras. Companies such as Infineon, ST, Sony, Samsung, onsemi, and ADI continue to raise integration levels across ToF image sensors, iToF modules, and depth-processing links, while ams OSRAM, Lumentum, Coherent, Seoul Viosys, Ennostar, and Vertilite are strengthening their positions in VCSELs, packaging, and optical illumination. At the same time, companies such as LG Innotek, OFILM, Sunny Optical, Foxlink, NAMUGA, Orbbec, HIKROBOT, HuaRay, SICK, and LUCID are packaging these technologies into deployable modules, industrial cameras, and system-level 3D vision products. Official product pages indicate a clear trend: customers are buying fewer isolated components and are showing a stronger preference for standardized depth-sensing units that can move directly into product design, robot deployment, or factory implementation. This means industry value is shifting away from competition based solely on single-component performance and toward broader competition in modularization, system compatibility, and real-world deployment capability.

On the demand side, growth in 3D imaging and sensing components is not driven by a single end market, but by consumer electronics, industrial automation, robotics, logistics, and automotive electronics together. Smartphones and XR devices remain important proving grounds for high integration, miniaturization, and low power consumption, while structured light, VCSEL-based illumination, and world-facing ToF solutions continue to support facial recognition, spatial interaction, eye tracking, and immersive experiences. Industrial and logistics applications clearly favor highly reliable 3D cameras and modules with strong ambient-light immunity and the ability to output point clouds or depth maps. Official pages from SICK, LUCID, HIKROBOT, HuaRay, Sony, onsemi, and ADI all emphasize applications such as dimensioning, sorting, picking, navigation, obstacle avoidance, and quality inspection, showing that 3D sensing has already shifted from a showcase capability to a productivity capability. Automotive demand is also becoming more certain. Pages from Infineon, LG Innotek, and Ennostar have already highlighted occupant monitoring, driver monitoring, gesture interaction, near-range parking, and low-speed exterior sensing as key scenarios, meaning that 3D sensing is increasingly tied to safety, convenience, and human-machine interaction. In other words, the appeal of this industry does not rest on a single hit device, but on its

simultaneous integration into three long-term tracks: spatial intelligence, industrial automation, and automotive safety.

From a regional perspective, this industry shows a very clear pattern of cross-regional collaboration. East Asia, especially mainland China, Taiwan, Japan, and South Korea, has formed a dense supply base in camera modules, structured light, VCSEL packaging, consumer-electronics support, and robot vision hardware. Sunny Optical, OFILM, Orbbec, HIKROBOT, HuaRay, Himax, LITEON, Ennostar, Sony, Samsung, LG Innotek, and NAMUGA together form a strong manufacturing cluster spanning optics, modules, and complete vision hardware. Europe and the United States, meanwhile, retain deep capabilities in high-performance ToF image sensors, industrial 3D vision, VCSELs, and automotive-grade sensing solutions. Infineon, ST, ams OSRAM, Coherent, Lumentum, ADI, Broadcom, pmd, SICK, and LUCID each hold critical technologies and customer positions in their respective niches. As in-cabin monitoring requirements tighten, factory automation continues to upgrade, robots expand into more complex scenarios, and XR and spatial computing become more dependent on real-time depth perception, 3D imaging and sensing components are unlikely to remain a narrow hardware category. They are more likely to continue evolving toward higher integration, lower power consumption, stronger algorithm coordination, and platformized delivery, which supports an overall optimistic industry outlook.

This report is a detailed and comprehensive analysis for global 3D Imaging and Sensing Components market. Both quantitative and qualitative analyses are presented by company, by region & country, by Sensing Principle and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global 3D Imaging and Sensing Components market size and forecasts, in consumption value (\$ Million), 2021-2032

Global 3D Imaging and Sensing Components market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global 3D Imaging and Sensing Components market size and forecasts, by Sensing Principle and by Application, in consumption value (\$ Million), 2021-2032

Global 3D Imaging and Sensing Components market shares of main players, in revenue (\$ Million), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for 3D Imaging and Sensing Components

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global 3D Imaging and Sensing Components market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include STMicroelectronics, Lumentum, ams AG, Coherent Corp., LG Innotek, Sony, Sunny Optical Technology (Group) Company Limited, Hangzhou Hikrobot Co., Ltd., Zhejiang HuaRay Technology Co., Ltd., SICK AG, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market segmentation

3D Imaging and Sensing Components market is split by Sensing Principle and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Sensing Principle and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Sensing Principle

Optical

Time-of-Flight

Structured Light

Market segment by Target Market

Consumer

Industrial

Automotive Grade

Other

Market segment by Product Level

Emitter Devices

Receiver Devices

Modules/Cameras

Other

Market segment by Application

Mobile and Consumer

Automotive

Industrial

Medical

Defense and Aerospace

Market segment by players, this report covers

STMicroelectronics

Lumentum

ams AG

Coherent Corp.

LG Innotek

Sony

Sunny Optical Technology (Group) Company Limited

Hangzhou Hikrobot Co., Ltd.

Zhejiang HuaRay Technology Co., Ltd.

SICK AG

LUCID Vision Labs, Inc.

Infineon Technologies AG

onsemi

Analog Devices, Inc.

Broadcom Inc.

pmdtechnologies gmbh

Samsung Electronics Co., Ltd.

Seoul Viosys Co., Ltd.

Orbbec Inc.

OFILM Group Co., Ltd.

Vertilite Co., Ltd.

Himax Technologies, Inc.

LITE-ON Technology Corp.

Ennostar Inc.

Cheng Uei Precision Industry Co., Ltd. (Foxlink)

NAMUGA Co., Ltd.

Hamamatsu Photonics K.K.

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe 3D Imaging and Sensing Components product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of 3D Imaging and Sensing Components, with revenue, gross margin, and global market share of 3D Imaging and Sensing Components from 2021 to 2026.

Chapter 3, the 3D Imaging and Sensing Components competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Sensing Principle and by Application, with consumption value and growth rate by Sensing Principle, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and 3D Imaging and Sensing Components market forecast, by regions, by Sensing Principle and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of 3D Imaging and Sensing Components.

Chapter 13, to describe 3D Imaging and Sensing Components research findings and conclusion.

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