

3D Camera Market Size, Share & Trends Analysis Report By Technology (Stereo Vision, Time of Flight, Structured Light), By Application (3D Scanning & Modelling, 3D Imaging), By End Use, By Region, And Segment Forecasts, 2024 - 2030

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Abstracts

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3D Camera Market Growth & Trends

The global 3D camera market size is expected to reach USD 18.56 billion by 2030, registering a CAGR of 17.3% from 2024 to 2030, according to a new report by Grand View Research, Inc. The demand for 3D cameras is on the rise, driven by their growing use in virtual reality (VR), augmented reality (AR), and 3D printing sectors. The market is also getting a boost from the rising use of technologies like self-driving cars, drones, and robots.

The ongoing technological advancements in 3D cameras are significantly driving the product demand across automotive, consumer electronics, media & entertainment, and industrial, among other verticals. For instance, in October 2023, FARO Technologies, Inc. introduced the FARO Orbis Mobile Scanner, a revolutionary development set to transform 3D reality capture. The new device marked the first hybrid SLAM scanner available, capable of both mobile and stationary data capture in a single unit. Such developments are fueling the market growth.

Moreover, the industrial applications of 3D cameras are also on the rise, particularly in manufacturing and quality control, where 3D cameras are being deployed for precise measurements, 3D modeling, and inspection processes, to help improve efficiency

and product quality. The ability to capture detailed 3D images can be crucial to automating inspection, detecting defects without any human intervention, and maintaining high standards in manufacturing. All these factors are expected to fuel the growth of the market for 3D cameras in the coming years.

3D Camera Market Report Highlights

Based on technology, the time of flight segment dominated the market in 2023, driven by the aggressive application of 3D cameras in autonomous vehicles and smart devices for accurate distance mapping and object detection to improve the user interface and enhance safety.

Based on application, the 3D imaging segment held the highest revenue share in 2023, driven by the increasing demand for immersive and interactive experiences in entertainment and gaming.

Based on end use, the consumer electronics segment accounted for the highest market share in 2023. The segment growth is attributed to the growing demand for high-quality imaging and interactive experiences.

Based on the region, Asia Pacific accounted for the highest market share in 2023. The growth of the Asia Pacific regional market can be attributed to several factors, such as the rising levels of disposable income, the proliferation of smartphones, and the growing demand for immersive responses in entertainment and gaming, among other factors.

In June 2024, Basler AG acquired a 25.1% stake in Roboception GmbH, a specialist in 3D vision technology. The strategic move was aimed at expanding Basler AG's 3D solutions business in the areas of factory automation, robotics, and logistics.

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