

Surface Vision and Inspection Market Report by
Component Type (Camera, Optics, Lighting
Equipment, Frame Grabber, Software, and Others),
Deployment (Traditional Surface Inspection Systems,
Robotic Cells), System Type (Computer-based,
Camera-based), Surface (2D, 3D), Vertical
(Automotive, Semiconductor, Electronics and
Electricals, Pharmaceuticals, Food and Beverages,
Postal and Logistics, and Others), and Region
2023-2028

https://marketpublishers.com/r/SDCE7D758EACEN.html

Date: November 2023

Pages: 144

Price: US\$ 2,499.00 (Single User License)

ID: SDCE7D758EACEN

## **Abstracts**

The global surface vision and inspection market size reached US\$ 3.5 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 6.1 Billion by 2028, exhibiting a growth rate (CAGR) of 9.70% during 2022-2028.

Surface vision and inspection refers to a non-destructive method of examining topographical details and locating suspected defects on the surface of an article during the production cycle. It relies on specialized cameras, lights systems, and various equipment for the accurate detection of defects automatically. At present, it is widely employed in different end use industries across the globe to ensure that manufactured products meet the expected visual characteristics. For instance, it is used in the automotive industry to analyze the wearing, proper finishing, roughness, and texture of unsold vehicles.

Surface Vision and Inspection Market Trends:



A consumer's perception about the quality of a product depends significantly on the appearance and texture of its surface. This represents one of the key factors positively influencing the application of surface vision and inspection tools in the food and beverage (F&B) industry. It can also be attributed to the increasing awareness among individuals about the quality assurance of food items. Moreover, human visual inspection is the most widely used method in aircraft surface inspection. With the mandatory guidelines implemented by aircraft operators and regulatory authorities of various countries to ensure aircraft structural integrity, the demand for modern surface vision and inspection practices is escalating worldwide. These practices involve the usage of a reconfigurable robot with an enhanced deep learning algorithm to inspect the aircraft safely, quickly, and accurately. Apart from this, surface vision and inspection tools are employed in the healthcare industry to examine medical equipment like stethoscopes, heart monitors, computerized tomography (CT) scanners, and ultrasound machines. This, in confluence with the growing prevalence of acute and chronic diseases and easy access to medical facilities, is anticipated to impel the market growth.

# Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global surface vision and inspection market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on component type, deployment, system type, surface and vertical.

Breakup by Component type:

Camera
Optics
Lighting Equipment
Frame Grabber
Software
Others

Breakup by Deployment:

Traditional Surface Inspection Systems Robotic Cells

Breakup by System Type:



Computer-based Camera-based

Breakup by Surface:
2D 3D
Breakup by Vertical:
Automotive Semiconductor Electronics and Electricals Pharmaceuticals Food and Beverages Postal and Logistics 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

# Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Ametek Inc., Cognex Corporation, Datalogic S.p.A., Industrial Vision Systems Ltd, Keyence Corporation, Matrox Electronic Systems, Omron Corporation, Qualitas Technologies Pvt Ltd, QVision Systems LLP, Shelton Machines Limited, Teledyne Technologies Incorporated and Vitronic.

# Key Questions Answered in This Report

- 1. What was the size of the global surface vision and inspection market in 2022?
- 2. What is the expected growth rate of the global surface vision and inspection market during 2023-2028?
- 3. What are the key factors driving the global surface vision and inspection market?
- 4. What has been the impact of COVID-19 on the global surface vision and inspection market?
- 5. What is the breakup of the global surface vision and inspection market based on the component type?
- 6. What is the breakup of the global surface vision and inspection market based on the deployment?
- 7. What is the breakup of the global surface vision and inspection market based on the system type?
- 8. What is the breakup of the global surface vision and inspection market based on the surface?
- 9. What is the breakup of the global surface vision and inspection market based on the vertical?
- 10. What are the key regions in the global surface vision and inspection market?
- 11. Who are the key players/companies in the global surface vision and inspection market?



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