

# **Digital Imaging Market based on by Technology (Machine Vision, Metrology, Radiography, LiDAR), by Application (Inspection, Reverse Engineering, Surveying) and by Industry Vertical (Automotive, Aerospace, Oil and Gas, Energy and Utility, Manufacturing, Construction, Consumer Electronics, Food and Beverages, Pharmaceutical) and Regional Forecast– Global Forecast up to 2030**

<https://marketpublishers.com/r/D48EFD54CE9BEN.html>

Date: November 2023

Pages: 112

Price: US\$ 4,500.00 (Single User License)

ID: D48EFD54CE9BEN

## **Abstracts**

The term 'digital imaging' describes the process of producing digital images for use in printed texts, networks, artwork, manuscripts, image machines, or digital cameras. The act of digitising and transforming a document's or file's content from an analogue format to a readable digital version is known as this kind of imaging.

One of the main reasons propelling the global need for industrial automation is the expanding need for digital imaging. The ageing of the population and the adoption of sophisticated AI-enabled imaging technology in industrialised nations for quick diagnosis and predictive analysis are driving market expansion. Further driving the market are the growing preference for artificial intelligence as a problem-solving tool and means of enhancing patient outcomes, as well as the growing need for early-stage chronic illness detection. The market for digital imaging is also positively impacted by rising system availability, quick digitization, integration of cutting-edge technologies, increased Internet of Things usage, and rising consumer awareness of safety and quality standards. Additionally, during the 2022–2030 forecast period, market participants will have lucrative prospects due to the trend of product miniaturisation in end-user industries.

Details about recent developments, trade laws, import-export analyses, production analyses, value chain optimisations, market share, the impact of local and domestic market players, and opportunities for emerging revenue pockets are all included in this report on the digital imaging market. Other topics covered include market size, category market growths, application dominance and niches, product approvals, launches, geographic expansions, and technological innovations in the market. For an analyst brief and other information about the digital imaging industry, get in touch with Data Bridge Industry Research. Our staff can assist you in making well-informed decisions that will lead to market expansion.

### Digital Imaging Market based on Technology

Machine Vision

Metrology

Radiography

LiDAR

### Digital Imaging Market based on Application

Inspection

Reverse Engineering

Surveying

### Digital Imaging Market based on Industry Vertical

Automotive

Aerospace

Oil and Gas

Energy and Utility

Manufacturing

Construction

Consumer Electronics

Food and Beverages

Pharmaceutical

## Digital Imaging Market based on Geography

North America

US

Canada

Europe

Germany

UK

France

Italy

Spain

Rest of Europe (RoE)

Asia Pacific (APAC)

China

Japan

India

Australia

South Korea

Rest of Asia Pacific (RoAPAC)

Latin America (LATAM)

Brazil

Argentina

Rest of South America

Middle East and Africa (MEA)

UAE

Turkey

Saudi Arabia

South Africa

Rest of Middle East & Africa

The market is divided into four segments based on technology: LiDAR, radiography, metrology, and machine vision. With the most market share in 2021, machine vision is expected to expand at the fastest rate of 10.03% CAGR over the course of the forecast period. Digital image techniques used for automated inspection and analysis are called machine vision. It makes inspection jobs possible for the computer and directing devices like video cameras. Additionally, by gathering data for assessment and management, it permits the automatic examination of the pictures.

Computer-based systems, smart cameras with smart sensors, or hybrid smart camera vision systems are examples of devices that contain machine vision features. Defect detection, gauging, guiding and component tracking, identification, OCR/OCV, package inspection, pattern recognition, product inspection, and surface inspection are just a few of the tasks it assists with in industrial verticals. Because machine vision offers proper lighting techniques and high-quality optics, it can produce very high-quality images with correct resolution in digital photography.

The market is divided into three segments based on application: surveying, reverse engineering, and inspection. With the most market share, inspection is anticipated to expand at the fastest rate of growth—10.01%—during the course of the forecast period. With the use of various imaging technologies like machine vision, radiography, and the rest, digital imaging has a broad variety of applications across several industry verticals. Timelier, safer, and more thorough inspection data are provided by digital imaging, which helps to lower safety risks and boost productivity.

It can be used for measuring and detecting corrosion in pipes, checking the casting and weld quality of pipelines, examining aerospace components, and more. Both insulated and uninsulated pipes can be inspected using digital photography. It offers highly accurate and effective automated visual inspection.

The market is divided into Oil and Gas, Aerospace, Automotive, Power Generation, Public Infrastructure, Pharmaceutical, and Others segments based on industry. With the biggest market share and the fastest predicted compound annual growth rate (CAGR) for the forecast period is the automotive industry. The application of new technology, including automotive digital imaging, and innovation are essential to improving product performance as well as cost and quality control. With the increasing speed and complexity of production processes coupled with the tight enforcement of safety and quality requirements, there is a growing need for automated quality control systems. The car business is one of the market leaders because of its emphasis on high-value ideas and inexpensive products.

The Global Digital Imaging Market is divided into North America, Europe, Asia Pacific, the Middle East and Africa, and Latin America based on regional analysis. The greatest market share belongs to North America, which is also expected to increase at the highest CAGR over the course of the forecast. Thanks to the development of specialised imaging programmes, full radiological tests, such CT or MRI studies, may now be loaded on a device and examined in a way that is therapeutically beneficial. These devices may be smartphones, tablets, or computers.

This report illustrates the most vital attributes of the Digital Imaging Market, which are driving and providing opportunities.

This research gives an in-depth analysis of the Digital Imaging Market growth on the basis of several segments in the market.

This report presents the predictions of the past and present trends of the Digital Imaging Market.

This study also presents the competitive analysis, such as key strategies and capabilities of major players of the Digital Imaging Market.

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