Saudi Arabia Computer Vision Market Segmented By Component (Hardware, Software), By Product Type (Smart Camera-Based, PC-Based), By Application (Quality Assurance & Inspection, Positioning & Guidance, Measurement, Identification, 3D Visualization & Interactive 3D Modelling, and Predictive Maintenance), By Vertical (Industrial, Non-Industrial), By Region, Competition, Forecast and Opportunities, 2028

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Abstracts

During the forecast period, the Saudi Arabia computer vision market is expected to grow at a speedy CAGR. Computer vision is an important field of study and application in Saudi Arabia. In recent years, there has been a significant increase in the use of computer vision in various industries and applications in Saudi Arabia, including healthcare, security, transportation, and robotics. One example of the use of computer vision in Saudi Arabia is in the field of healthcare. Saudi Arabia has a high prevalence of diabetes, and computer vision is being used to develop new technologies to help manage the disease. For example, researchers in Saudi Arabia have developed a computer vision system that can detect diabetic retinopathy, a common complication of diabetes, which can lead to blindness if left untreated. In the field of security, computer vision is being used to monitor public spaces and detect potential threats. For example, the Saudi Arabian government has implemented a system that uses computer vision to monitor crowds during the annual Hajj pilgrimage to Mecca, to ensure the safety and security of the millions of pilgrims who attend. In the transportation industry, computer vision is being used to develop autonomous vehicles, which have the potential to reduce traffic congestion and improve road safety. Saudi Arabia has made significant

investments in autonomous vehicle technology, and the country is home to several research centers and companies focused on developing this technology. Overall, computer vision is an important field in Saudi Arabia, with many applications and opportunities for research and development. The country is investing heavily in this technology, and we might continue to see significant advancements in the field in the coming years.

Rapid Advancements Made in Robots Using Vision-Guided Systems is Fueling The Market Growth

The rapid advancements made in robots using vision-guided systems are fueling the market growth of computer vision in Saudi Arabia. Computer vision technology is being increasingly used in robotics to enable machines to 'see' and interpret visual data, allowing them to perform tasks with greater accuracy and precision.

In Saudi Arabia, there has been a growing interest in the use of robotics across a range of industries, including manufacturing, healthcare, and defense. With the development of vision-guided systems, robots are now capable of performing a wider range of tasks with greater speed and accuracy, leading to increased productivity and efficiency. The use of vision-guided systems in robotics is also driving the demand for computer vision technology, as it enables machines to analyze and interpret the visual data required to perform tasks such as object recognition, motion tracking, and obstacle avoidance. This is particularly important in industries such as manufacturing and logistics, where robots are increasingly being used to perform tasks in environments that are hazardous or difficult for humans to access.

As a result of these developments, the market for computer vision technology in Saudi Arabia is expected to grow significantly in the coming years. The Saudi Arabian government has already invested heavily in robotics and automation, and it is likely that we will see continued investment in these technologies in the future, driving further growth in the computer vision market.

Rising Demand for Electric Vehicles (EV) is Driving Computer Vision Market's Growth

The rising demand for electric vehicles (EVs) in Saudi Arabia is indeed driving the computer vision market in the country. As more people switch to EVs, there is a growing need for technologies that can help improve the safety and efficiency of these vehicles, and computer vision is playing a key role in meeting this need.

Computer vision is being used in EVs to enable advanced driver assistance systems (ADAS) that can help prevent accidents and improve the overall driving experience. These systems use cameras, sensors, and other technologies to detect and respond to potential hazards on the road, such as pedestrians, other vehicles, and obstacles. They can also provide real-time feedback to the driver to help them make better driving decisions.

In Saudi Arabia, the government has set ambitious targets for the adoption of EVs, as part of its efforts to reduce the country's reliance on fossil fuels and lower carbon emissions. As a result, there is a growing demand for ADAS and other technologies that can help improve the safety and efficiency of EVs, and computer vision is playing a key role in meeting this demand. The market for computer vision technology in Saudi Arabia is expected to grow significantly in the coming years, as more companies invest in research and development to improve the capabilities of ADAS and other vision-based systems in EVs. This is likely to drive further innovation and growth in the computer vision market, creating new opportunities for companies and investors in the country.

Surge in the usage of Industry 4.0 technologies

There is indeed a surge in the usage of Industry 4.0 technologies, including computer vision, in Saudi Arabia. Industry 4.0 is a term used to describe the fourth industrial revolution, characterized by the integration of digital technologies into industrial processes. In Saudi Arabia, there has been a growing interest in Industry 4.0, as the government seeks to diversify the country's economy and reduce its reliance on oil.

Computer vision is a key technology in Industry 4.0, as it enables machines to 'see' and interpret visual data, allowing them to perform tasks with greater accuracy and efficiency. In Saudi Arabia, computer vision is being used in a range of industries, including manufacturing, healthcare, and logistics, to improve processes and reduce costs.

In manufacturing, for example, computer vision is being used to monitor production lines and detect defects in products, allowing for faster and more accurate quality control. In healthcare, computer vision is being used to analyze medical images and help diagnose diseases, while in logistics, it is being used to optimize warehouse operations and improve supply chain management.

As the adoption of Industry 4.0 technologies continues to grow in Saudi Arabia, it is likely that we will see increased demand for computer vision and other digital

Saudi Arabia Computer Vision Market Segmented By Component (Hardware, Software), By Product Type (Smart Camera...

technologies that can help companies improve their processes and reduce costs. This is likely to drive further innovation and growth in the computer vision market in Saudi Arabia, creating new opportunities for companies and investors in the country.

Market Segmentation

The computer vision market is segmented into component, product type, application, vertical, and region. Based on component, the market is segmented into hardware and software. Based on product type, the market is segmented into smart camera-based, and PC-based. Based on application, the market is further bifurcated into quality assurance & inspection, positioning & guidance, measurement, identification, 3D visualization & interactive 3D modelling, and predictive maintenance. Based on vertical, the market is further split industrial and non-industrial. The market analysis also studies the regional segmentation to devise regional market segmentation, divided among Riyadh, Makkah, Eastern Province, and rest of Saudi Arabia.

Company Profiles

Overall, the computer vision market is competitive, with new players entering the market regularly. Some of the major players in the computer vision market include Sadeem Technologies, Bitlab Solutions, HikmaTech Medical Systems, Proven Consulting Group, KAUST Innovation Center, VisionCam Systems, FasTab Payment Solutions, WAKEB Technologies, and SCAI Systems.

Report Scope:

In this report, the Saudi Arabia computer vision market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Saudi Arabia Computer Vision Market, By Component:

Hardware

Software

Saudi Arabia Computer Vision Market, By Product Type:

Smart Camera-Based

PC-Based

Saudi Arabia Computer Vision Market, By Application:

Quality Assurance & Inspection

Positioning & Guidance

Measurement

Identification

3D Visualization & Interactive 3D Modelling

Predictive Maintenance

Saudi Arabia Computer Vision Market, By Vertical:

Industrial

Non-Industrial

Saudi Arabia Computer Vision Market, By Region:

Riyadh

Makkah

Eastern Province

Rest of Saudi Arabia

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Saudi Arabia computer vision market.

Available Customizations:

With the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

      Detailed analysis and profiling of additional market players (up to five).

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