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North America Machine Vision Systems Market (2016 - 2022)

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Abstracts

Machine vision system enables automatic analysis and inspection of the production line, imaging, process control, verification, measurements, robot guidance, and other functions. Machine vision is a full-fledged solution that works from acquiring an image to interacting with the management information system. Machine vision system is a very efficient system that almost negates the limitation caused due to human intervention and at the same time offer significantly high level of error recognition for a long period of time.

Major disadvantages of human inspection such as long-term inconsistency, need for rest, limited speed, and variation of output, would contribute to the growth of the machine vision system market. Machine vision facilitates cost-effectiveness, speed, accuracy and high functionality of an inspection procedure; therefore, it is widely incorporated to significantly improve quality and productivity in the manufacturing process.

The machine vision system market is expected to witness significant growth during the forecast period, due to continued evolution of CMOS image sensors and rise in demand for automation in industrial applications. However, intensive training and education, an essential requirement to enable entry of machine vision in newer markets, would act as a major restraint for the machine vision system market growth. Nevertheless, the demand for miniaturization of machine vision system would offer lucrative opportunities for the market players operating in machine vision system market.

Based on type, the market is segmented into 1D, 2D, and 3D. Based on Component, market is segmented into Embedded system, Smart Camera, Lighting, Frame Grabber, and Lens. Based on Application, market is segmented into Verification, Identification,

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Measurement, Positioning, and Flaw Detection. Based on Vertical, market is segmented into Industrial, Healthcare, Electronics, Automotive, and Others.

Based on country, North America Machine Vision Systems market is segmented into US, Canada, Mexico, and Rest of North America. US remained the dominant region in the North America Machine Vision Systems market in 2015. Mexico would witness promising CAGR during the forecast period (2016-2022).

The report covers the analysis of key stake holders of the Machine Vision Systems market. Key companies profiled in the report include Cognex Corporation, Teledyne Technologies, Keyence Corporation, Basler AG, Texas Instruments Incorporated, Omron Corporation, Sick AG and Allied Vision Technologies GmbH.

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