Machine Vision Camera Market - by Types (Vision Sensors, Smart Cameras); by Products (Area Scan, Line Scan); by Applications (Inspection, Location Analysis, Others); by End-User Industry (Automotive, Medical, Others)-Forecast to 2021

Description: Machine Vision (MV) cameras are basically industrial cameras which are designed for high performance and challenging applications such as locating applications, measurement applications, inspection and identification applications. These cameras are basically built up on two varied types of technologies – Complementary Metal Oxide Semiconductor (CMOS) and Charge-Coupled Device (CCD); CMOS cameras taking the industrial toll in the near future. These cameras capture high quality images which are again analyzed to automate the tasks of production, increase their speed and yield and also to improve their quality. The report study includes the detailed demand analysis of machine vision market on a global and regional scale for a five-year period of 2016-2021, both in terms of volume (Units) and revenue ($billion).

The market is evaluated based on the key attributes such as the power in the hands of producers and consumers, analysis on the degree of competition, and threats from substitutes and new entrants.

The report also includes segmentation based on types, products, applications and end user industries. Types of Machine Vision Cameras include Vision Sensors, Smart Cameras and PC based systems. The overall market can be segmented based on products into Area Scan Cameras, Line Scan Cameras, Infrared Cameras, 3D cameras and others. The major applications of these cameras include inspection applications, location analysis applications and pattern recognition applications such as character recognition, part recognition and 2D symbol reading and so on. The market can be fragmented based on end user industries into Electronics and Semiconductors, Medicine, Automotive, Packaging and Printing Industry and many others.

Competitive landscape for each of the product types is highlighted and market players are profiled with attributes of company overview, financial overview, business strategies, product portfolio and recent developments. Market shares of the key players for 2015 are provided. Drivers, challenges and constraints which control the profitability of an industry are also analyzed in the report.

The Machine Vision Camera market has also been segmented based on geographical region into Americas, Europe, Asia-pacific and Middle-East and Africa. These geographies are further classified into countries holding prominent share in this market for the forecast period. Major market revenue share is contributed by the United States.

Americas emerged as the leading region for Machine Vision Cameras market with The U.S. and Canada leading the net sales. The wide range of applications of these cameras, especially the smart cameras in the automotive and industrial sector has propelled the growth of this market in these regions. However, European manufacturers have formulated strategies to invest in Machine Vision System market in the coming years.

Among a wide range of manufacturers, major players that contribute to the Machine Vision Cameras market are:

- Allied Vision Technologies GmbH,
- ASENTICS GmbH & Co. KG,
- Balluff GmbH,
- Basler AG
- Baumer GmbH – Baumer Inspection GmbH.

We provide profound data about the industry overview, financial overview, business strategies and recent developments.

Progress in technology and increasing need of the smart cameras in many real-world applications will continue to drive the growth of these machine vision cameras. The growing needs of these smart cameras in
the industry automation and control systems as well as in non-manufacturing applications such as in video surveillance, traffic surveillance and in automobiles will contribute to the increase in market share of these machine vision cameras in the forecast time frame.
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8.3.3. 2D symbol Reading
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8.4.1. Video Microscope
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8.4.3. Surgical Microscope
8.4.4. Cell and skin Imaging
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