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Global Machine Vision and Vision Guided Robotics Market (2010-2015)

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Abstracts

Machine vision is an automated technology where images are captured and transferred to the PC and processed thereafter, for inspection and reporting of the processed results. These systems have increasingly become more powerful while at the same time easy to use. Recent advancements in the machine vision technology, such as smart cameras and vision guided robotics, has increased the scope of the machine vision market for a wider application in the industrial and non-industrial sectors. Asia Pacific market is expected to grow faster. The European market is expected to grow better than the U.S. mainly due to the impact of the recent economic crisis in the U.S.

Traffic and security are the two application areas having high growth potential. The applications such as automatic number plate recognition, traffic flow monitoring, traffic surveillance and other related applications are witnessing more integration and utilization of machine vision systems. In the recent economic turmoil, badly hit application areas such as automotive and semiconductors are witnessing less demand, while medical and infrastructure industries are witnessing steady growth. The report also analyzes the impact of infrastructure slow down on the machine vision market.

The report focuses on machine vision hardware and software included in vision systems, such as those found in smart cameras and compact vision systems. The improvement in this area is a major driving factor for the overall growth of machine vision market. The report also focuses on the fast-growing component markets including cameras, optics, and vision software.

This report covers the impact of machine vision systems and its use in the non-industrial sector. It also measures its impact on the associated machine vision technologies.

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Markets covered

The report gives a full breakdown of the entire machine vision and vision guided robotics market on the basis of products, applications, technology and processes. Each section will provide market data, market drivers, trends and opportunities, top-selling products, key players, and competitive outlook.

The major machine vision products covered under the report include:

PC-based machine vision systems
Smart camera based machine vision systems
Vision guided robotics

The industrial application areas include:

Automobiles
Semiconductor
Electronics
Healthcare
Food and beverage
Textiles
Packaging
Containers
Rubber and plastics
Other industrial

The non-industrial application areas include:

Biometrics
Security and Surveillance
Banking and Postal
Transportation, Traffic Management and Road Safety
Medical Imaging and Lab Automation
Leisure and Entertainment
Environment
Others

The global machine vision technology market includes:

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Resolution (Progressive scan, line Scan, area scan)
Sensitivity (CCD and CMOS)
Color (Black & white, and colored)
Interface
Software

The global machine vision process market includes:

Guidance (predetermined guidance, continuous guidance)

Identification (part identification, 2-D data matrix code, character identification)

Measurement (one-dimensional measurements, two-dimensional measurements, three-dimensional measurements)

Inspection (Shape or appearance conformity checking, flaw detection (discrete items), flaw detection (web materials), print verification, color confirmation, and assembly inspection & verification)

The report features more than 100 tables that give a complete insight into the market, along with 45 competitive company profiles in this market. All market tables are categorized by geographic region, application, and technology categories. The report will study over 1,000 news items and analyze the new product launches in this market. Technology patents over the last five years and documented machine vision and vision guided robotics claims are researched to get an in-depth understanding of the trends related to such technologies.

The report highlights strategic issues like tapping the upcoming markets such as application of vision guided robotics. This includes consolidating strategy, new product development, competitive positioning, gap analysis and identification of opportunities and challenges. Niche opportunities are identified for all the sub-segments within the machine vision and vision guided roboticsmarket.

Stakeholders

The intended audience includes all the stakeholders of the machine vision and vision guided roboticsmarket-

MARKET OVERVIEW

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Broader market structure of global anti-counterfeiting packaging technologies market Top down approach of larger markets These macro markets are further broken down into their respective micro markets.

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