
Description: Smart cameras are digital cameras with more connectivity features. Smart camera or intelligent camera is a vision system which, apart from image capture circuitry, smart cameras are capable of extracting specific information from the captured images, also generating event descriptions or taking decisions that are used in an intelligent and automated system.

The ultimate purpose of a smart camera is to be able to functionally mimic the human eyes and human brain to interrupt what the camera sees through artificial intelligence. Since 1990's, smart cameras have attracted significant interest from research groups and many industry segments especially in video surveillance and manufacturing industries. This is because smart cameras offer distinctive advantages over normal cameras by performing not just image capture but also image analysis and pattern recognition.

The sensing and processing capabilities of early smart cameras were very limited but modern smart cameras have very large processing power and have been successfully applied to many industry sectors.

The global market for smart camera was estimated to be $XX billion in 2015 and is estimated to grow at a CAGR of XX% to reach $XX billion by 2021. The smart camera market is forecast to have the highest growth of X% during the forecast period 2016-2021. Aerospace and Defense, Military, industrial infrastructure are the major end-users for smart camera.

Americas is the leading market for smart camera market with Latin America leading the charge and is forecast to have highest growth in the next few years due to growing adoption of smart camera in industrial applications. America's smart camera market accounts to XX% of the global market for smart camera and is the fastest growing market followed by Europe. In Europe, Aerospace and Defense industry are the major end users of smart camera.

Security and Surveillance to Drive the Use of Smart Cameras

There are many examples of smart cameras in action in real-world applications, especially for video surveillance and industrial machine vision. Industrial machine vision is probably the most mature application area for smart cameras, where these cameras perform tasks such as bar code recognition, parts inspection, surface inspection, fault detection, object counting and sorting. In video surveillance applications, typical tasks of smart cameras include motion detection, intrusion detection, crowd profiling, number plate recognition. Intellio’s ILC is the one of the smart camera for security and surveillance applications. It has XGA resolution CMOS image sensor as a capture device and it can operate both in day and night conditions. Apart from video surveillance and industry machine vision, smart cameras found applications in areas such as driver assistance systems, medical research, health care, entertainment, human-computer interface and robotics.

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