# Hindsight is 20/20

## Quality control tools for today's factories

The new generation of modern consumer protection laws are becoming more comprehensive and all inclusive. Small errors can cost companies big money. As a result, the manufacturing industry is shifting the safety and quality control focus from reactive damage control measures to proactive quality control implementations. It is widely recognized that most of these quality related issues arise due to faulty product or packaging, contamination or incorrect labeling. The human sight is unfortunately limited, but what if there was a program that could easily identify mistakes without having to hire more workers? It's simple and that is how the vision system works.

We can all recall the many instances when companies have had to recall entire stock of food, medicine or electronic goods because they were unable to trace the cause and extent of fault for contamination. This not only causes unnecessary waste but also deals a damaging blow to the company reputation and consumer trust in the product, not to mention the losses to the consumer themselves. Machine vision technology allows companies to move forward with assurance.

## Complex Inspection at High Speed

Vision inspection systems offer new age quality control checks that not only help to quickly identify and trace the faulty products or processes but also help to prevent such failures before they happen. When talking about such vision inspection systems the two major points of importance are speed and accuracy. While speed is important for ensuring delivery timelines, accuracy is equally essential in identifying faults on the assembly line itself which will go a long way in preventing troublesome recalls and investigations later on. Modern vision inspection systems aim to provide quality inspection matching or even exceeding the capabilities of human vision.

## 100% Accuracy

With 100% accuracy, the most important benefit of vision control systems is to provide quality control and traceability to industries so that faulty products can be minimized and easily identified early on. These systems provide peace of mind to the company, while protecting the consumers from the adverse effects of using or consuming unsafe products.

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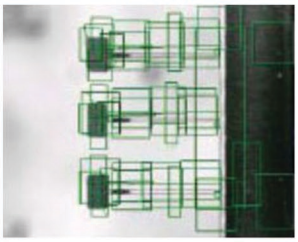
## Flexible and Adaptable

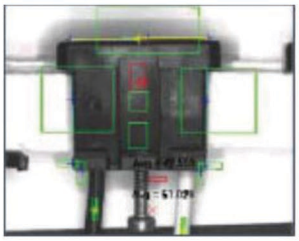
Vision inspection systems are equipped with one or more high definition cameras along with additional capabilities. These systems are a combination of various technologies and can be customized as per the requirements of particular industries. They can be used in assembly lines to verify products and packaging, measure and sort different parts of products based on size, shape or other factors, verify the accuracy of positioning and alignment of the parts. They can read 1D and 2D barcodes and utilize optical character recognition (OCR) for track and trace along with much more. Specialized software created for use in these systems can help to identify faulty or inefficient products and processes at an early stage. Thus, these systems find applications in industries such as food and beverage, pharmaceuticals, electronics, consumer goods, robotics and many other manufacturing and service industries.

***Plain text reading and comparison***

***1D/2D symbol reading***



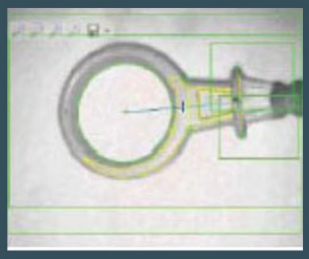
***complex inspection high speed***



***Check for completeness***

# Are you considering **Vision Systems?**

Before you start, contact a specialist today at ***951.299.4100*** or ***cs@brfa.com***



***Shape Inspection***


***Pattern comparison***