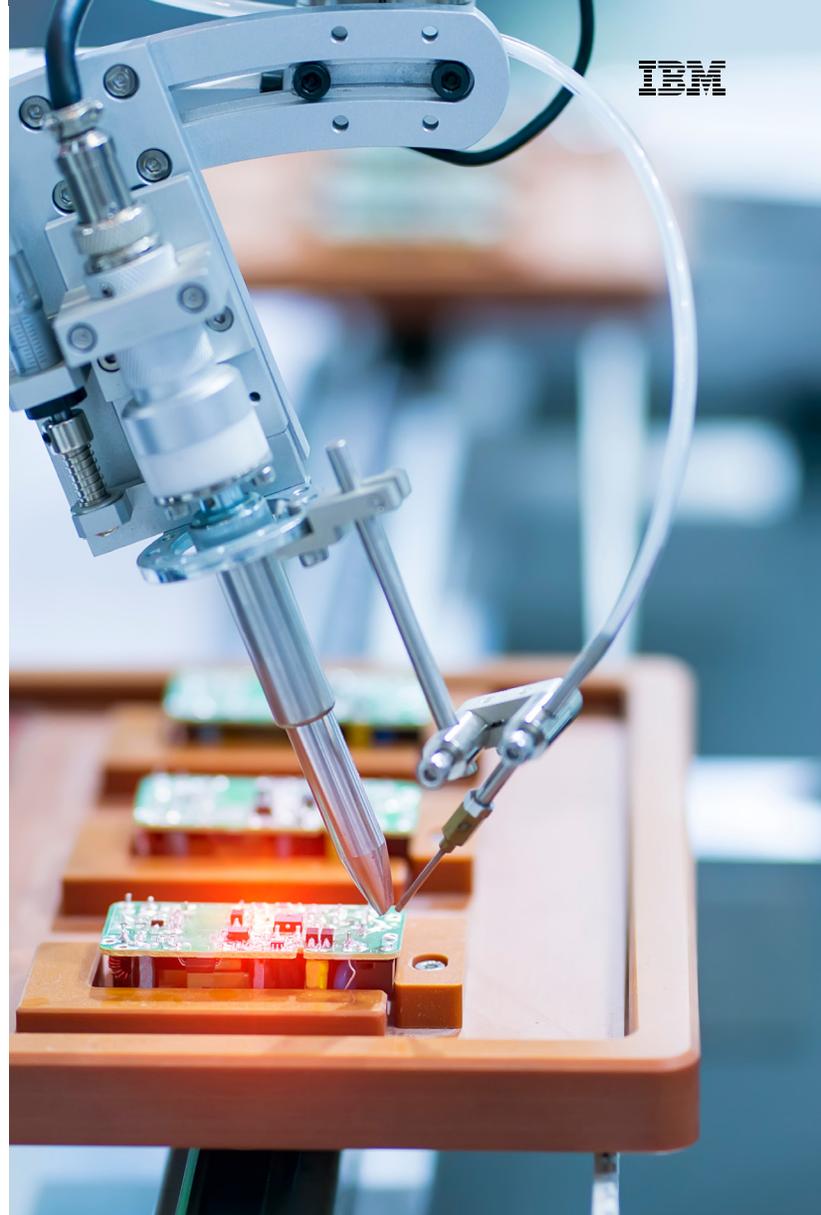


Intelligent visual inspection, anywhere

The competitive nature of the market today demands high-quality, affordable goods. To satisfy this demand, manufacturers must reduce time to market and lower costs without sacrificing product quality. To ensure a quality product, manufacturing leaders are tasked with identifying production issues as they arise, using costly and inflexible traditional stationary cameras and fixed-line networks.

The greatest challenges that manufacturers deal with are the difficulty, cost and complexity of implementing new technology on a running production line. Making it all work without disrupting production or causing compliance and safety issues adds to the balancing act.



Bottom line: Business leaders need an easier way to reduce manufacturing errors.

A cost-effective and efficient solution

Manufacturers need a low-cost manufacturing computer vision solution that can scale with their needs, with little or no interruption to production during training and deployment. IBM Visual Inspector enables manufacturing teams to use Apple devices — trained by IBM Visual Insights — that quickly identify defects on the line. It's a big advantage for teams pressured to produce higher-quality products quickly and with confidence.

Introducing IBM Visual Inspector

IBM Visual Inspector uses commercial, off-the-shelf Apple devices to provide immediate, actionable notifications of any production line defects via email or SMS. This intuitive solution is simple to operate, requires minimal operator training, and scales globally with the use of ubiquitous Apple hardware and iOS. Paired with IBM Visual Insights, IBM Visual Inspector is engineered to continuously improve accuracy.

IBM Visual Inspector, deployed with IBM Visual Insights, simplifies the process of gathering data, training new AI models, and deploying those models at the edge. The Apple device gathers datasets, leveraging the high-resolution integrated imaging capabilities inherent in Apple products. Manufacturing leaders can use these images and datasets to train and refine custom AI models using Visual Insights. They can then quickly and easily deploy the resulting custom AI models to mobile infrastructure using Core ML. Configurable business rules can be applied to the results to determine whether

subsequent action or alerting is required. Supervisors can use the integrated reporting dashboard in the app to gain insights into inspection performance, and supervisor mode to manage IBM Visual Inspector apps running on remote devices.

With IBM Visual Inspector, error-proofing can take place anywhere. iPads and iPhones are less expensive than buying and installing fixed cameras. Apple devices also offer multiple connectivity options, and the global footprint of the iOS platform provides ubiquitous visual inspection of production lines anywhere in the world.



Flexible

Work anywhere – no-longer tied to the manufacturing floor



Agile

Tools, training and technology at your fingertips



Cost-effective

iOS/iPadOS devices are less expensive than industrial cameras



Global

Worldwide access with the iOS/iPadOS platform

Dramatically improve production quality and speed

A major American auto manufacturer wanted to identify production issues quicker to increase the quality of its product. The manufacturer deployed the IBM Visual Inspector iOS app in conjunction with IBM Visual Insights and the Power Server platform. This new solution prevented 32 vehicle mis-builds in the first 30 days. The “detect and correct” solution, with self-learning machine algorithms, eliminated the need for a data scientist. This enabled the manufacturer to respond to process issues in hours rather than weeks or months.

The manufacturer is now able to quickly respond to production issues, reducing rework and improving overall product quality. Soon, another 30 stations are scheduled for deployment at its regional assembly site.

Flexible, scalable solution optimizes production quality

IBM Visual Inspector delivers a complete error-proofing package to identify potential issues on a production line in real time and notify stakeholders in time to make corrections. The solution works together with data management and training hardware, a cloud or on-prem computer vision suite (IBM Visual Insights), and Apple devices. One-on-one expert training also ensures a scalable foundation for real-time computer vision quality inspection is delivered.

Error-proof your manufacturing by improving the efficiency of your production line and the quality of your output with mobile visual inspection.

Intelligent mobile inspection, deploy anywhere in minutes

Contact your IBM sales representative to find out how IBM Visual Inspector can help you optimize your manufacturing environment.