

2x productivity improvement with a 5x error rate reduction

mSense *VisionML* is used to verify a vehicle's frame number on a moving assembly line. This automated process verifies that the number matches the QR Code.

"Prior to mSense, three operators were required to perform the same task and were taking longer and doing more errors" mSense delivered a production solution that exceeded our expectations."

Quality Assurance Head,
Major Automobile Manufacturer

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Metal Part Identification & Verification

For manufacturing logistics, part numbers, especially on metal parts, have been difficult to accurately read. In some situations, this has been done manually resulting in high error rates or resorting to some additional digital coding steps such as QR or bar codes. mSense's Vision Machine Learning, *VisionML* system automatically and reliably reads part numbers using a standard definition camera for accurate automated part verification and can even be applied to automating manufacturing inspection.

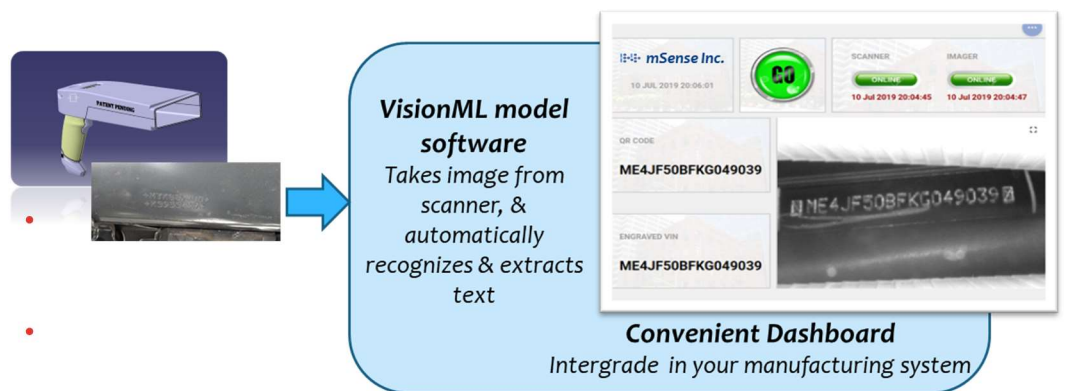
Exceptional benefits:

- Reduced errors - achieve significant improvements over manual techniques
- High efficiency – automatic part reading in seconds with 99%+ accuracy
- Automate parts management – can access and integrate with your other logistical applications using a simple API (application programming interface)

How it works:

VisionML consists of a patented image (SD camera) scanner that is used either by hand or in a fixed assembly line location.

- The patented machine learning technology uses an image to accurately read the text even in low light conditions.
- A convenient dashboard provides operates with real time feedback.
- *VisionML* can effectively be applied to automate other image-based manufacturing tasks.



Applications

- Digital part management: part number identification & verification
- Manufacturing inspection: defect detection, assembly part alignment, sorting & binning
- Vehicle Headlight calibration and quality control