

LASERVISION-AI

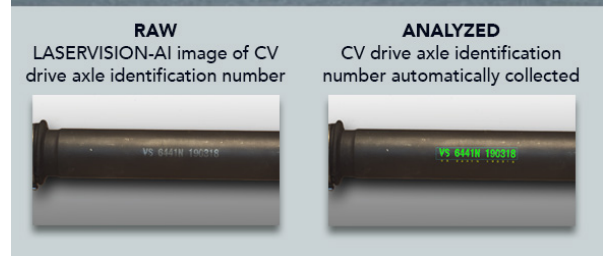
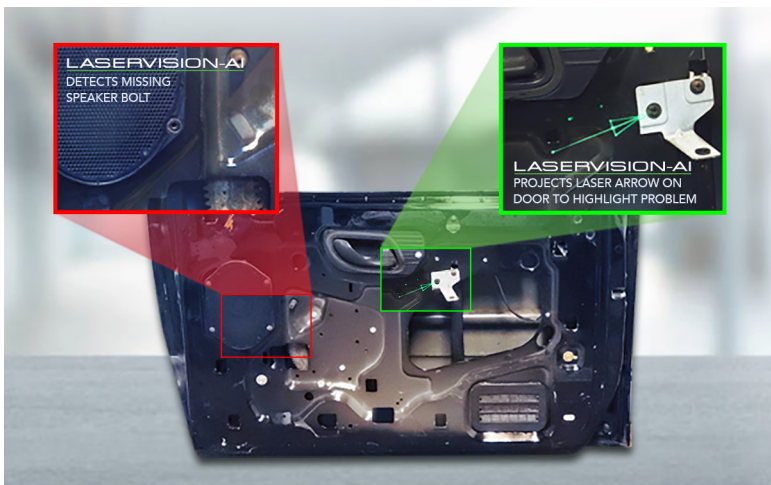
AUTOMOTIVE

AUTOMATIC INSPECTION

BRINGING LARGE-FIELD INSPECTION TO AUTOMOTIVE MANUFACTURING

PROGRAM DESCRIPTION

LASERVISION-AI's unique capabilities and approach to automatic inspection fill a strategic gap between the automotive industry's currently available technologies and your quality objectives. Physically independent of production equipment, LASERVISION-AI captures detailed images of any visible surface within a 3m x 3m work envelope. And its versatile image analysis capabilities mean that LASERVISION-AI inspects nearly any visible attribute of your automotive component.



LASERVISION-AI FEATURES

BENEFITS TO AUTOMOTIVE MANUFACTURING

Operates up to 3m away from production equipment	<ul style="list-style-type: none"> Does not interfere with or disrupt production equipment Value-added operations continue while inspections are performed
Captures detailed, calibrated high-resolution images in 3m x 3m envelope	<ul style="list-style-type: none"> Enables inspection of large surfaces with complex contours High-magnification camera provides required detail in each image (typically 20cm x 20cm)
Verifies attributes and flags nonconformances for immediate corrective action	<ul style="list-style-type: none"> Enables inspection of all attributes (not just a sampling) Immediate corrective actions keep nonconformances from advancing through production
Pinpoints anomalies with laser projector	<ul style="list-style-type: none"> Directs operators efficiently to the anomaly's location
Feeds the as-built Digital Twin	<ul style="list-style-type: none"> Enhances traceability with images and data for the life of the component Provides data needed for Deep Learning and continuous process improvement
Provides operators with electronic work instructions	<ul style="list-style-type: none"> Facilitates the paperless factory Helps ensure that processes are carried out as planned
Enables tablet- or phone-size remote control	<ul style="list-style-type: none"> Eliminates step-away time to consult the work cell controller
Performs laser templating	<ul style="list-style-type: none"> Accelerates additive processes and manual tasks