

LASERVISION

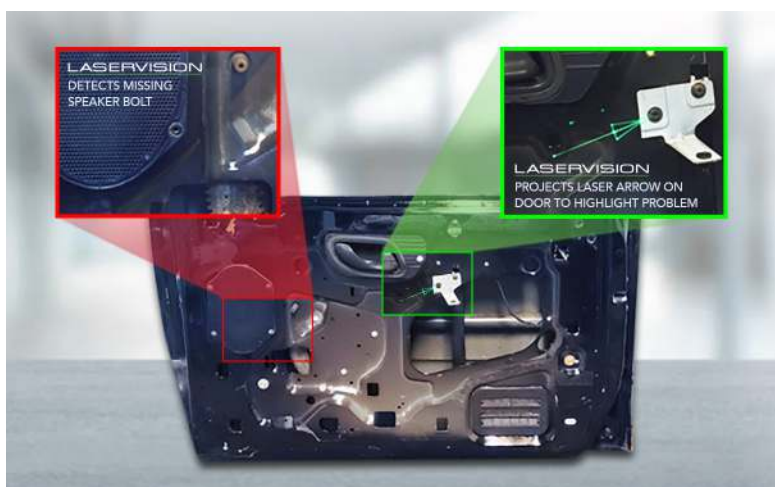
AUTOMOTIVE

AUTOMATIC INSPECTION

BRINGING LARGE-FIELD INSPECTION TO AUTOMOTIVE MANUFACTURING

PROGRAM DESCRIPTION

LASERVISION'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 captures detailed images of any visible surface within a 3m x 3m work envelope. And its versatile image analysis capabilities mean that LASERVISION inspects nearly any visible attribute of your automotive component.



LASERVISION 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