

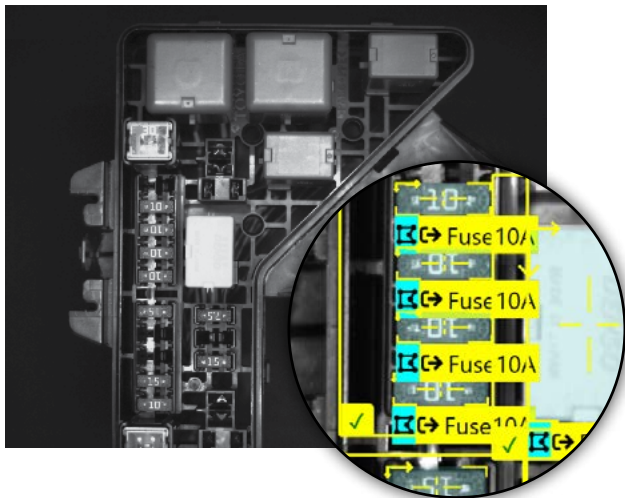
IN-SIGHT ViDi CHECK TOOL

Deep learning-based solution for assembly verification

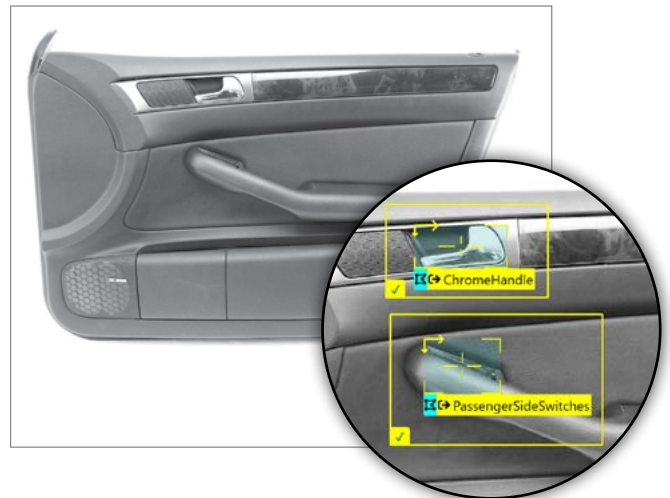
In-Sight® ViDi™ is a powerful deep learning software platform designed specifically for factory automation. Combining artificial intelligence (AI) with the power of In-Sight, In-Sight ViDi solves applications that are too difficult, complex, or expensive for traditional machine vision systems.

In-Sight ViDi Check reliably detects complex features and objects within a field of view and verifies parts and kits are assembled correctly based on their location and attributes. In particular, part-to-part variation, large numbers of components, and configuration changes are difficult and time-consuming to program using traditional machine vision. Deep learning offers a breakthrough method to automate this class of inspection. The In-Sight ViDi Check tool can be trained to handle wide ranges of part-to-part variation in order to locate and confirm whether components are present and in the correct location. The In-Sight ViDi Check tool also recognizes multiple types of components within varying layouts and configurations—no additional logic-building required.

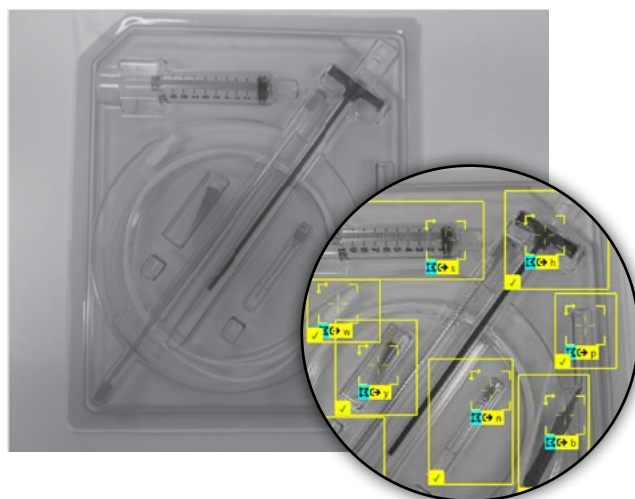
Ensures components are properly assembled



Conducts final assembly check on large automotive parts



Verifies kitted parts are present and in the correct location



In-Sight D900 Vision System

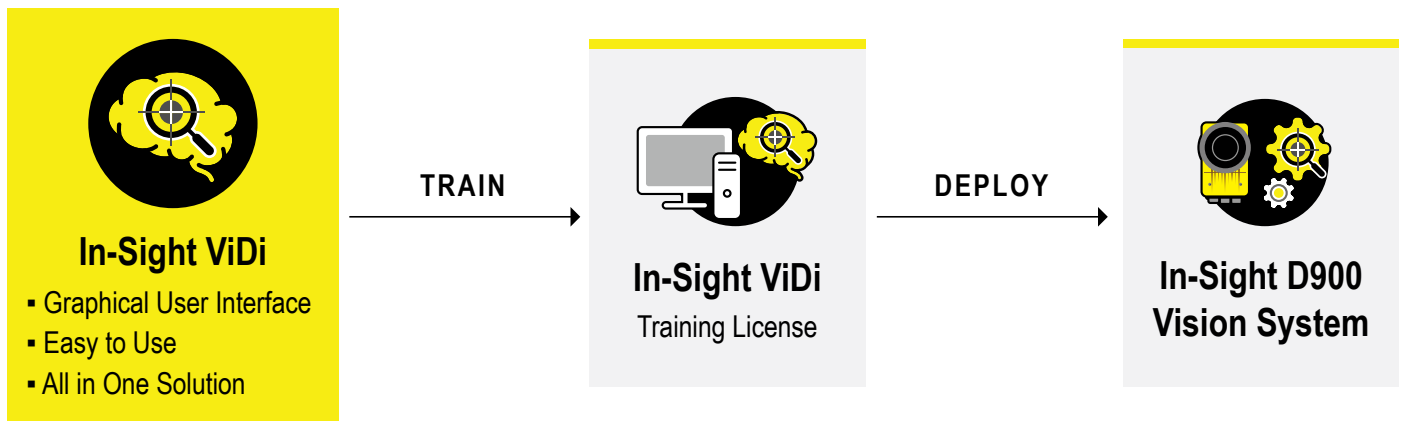
The In-Sight ViDi Check tool can be deployed on the In-Sight D900 vision system that is optimized to run deep learning applications without the need for a PC. This embedded solution helps factory automation customers easily solve challenging OCR, assembly verification, and defect detection projects that are often too difficult to program with traditional, rule-based machine vision tools. This deep learning solution also delivers reliable, fast, and consistent results not possible with human inspection.

Powerful, modular smart camera

The In-Sight D900 is a highly-modular, IP67-rated vision system that includes field-changeable lighting, lenses, filters, and covers that can be customized to your exact application requirements. It also includes an embedded deep learning inference engine to solve complex applications at production line speeds.

In-Sight spreadsheet guides application development

Deep learning applications are now accessible to non-programmers thanks to the intuitive In-Sight spreadsheet that simplifies application development and streamlines factory integration. It also provides easy access to machine vision and deep learning tools, combining the power of both traditional vision algorithms and artificial intelligence.



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