

sales@aistechgroup.com (mailto:sales@aistechgroup.com) | 519-737-1012 (tel:5197371012)

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Vision Systems

Vision Systems

We are AIA Certified Vision System Integrators with a 20 year history of experience with machine vision complemented by our strong & experienced automation design team. Our vision capabilities extend from quality inspections through traceability to vision guided robotics. Our expertise includes vision systems from Cognex, Keyence, Omron & SICK. Did you know we've been a Cognex Partner System Integrator since 1998? For traceability, we're familiar with part marking systems from RoFin, Telesis & Technophar & our integration ability is enhanced by our deep knowledge of controls from Siemens, Rockwell Automation, Telemecanique, Omron, Mitsubishi & Modicon. We work with a wide range of traditional & collaborative industrial robotics for our vision guided or robotic inspection automation.

We will perform a free vision evaluation on your sample parts & will work with you to develop a functional specification prior to quoting a system.



Quality Inspections

Our team of talented, certified & smart vision designers & programmers have designed inspections for everything from gummy bears to precision aerospace parts over the past 2 decades. We've got the skills and fully equipped vision lab to work with you to translate your quality needs into the right vision application for your requirements & your budget.

Is your cycle time on the order of seconds or minutes? Do you require tolerances in microns or centimeters? Is it a complex application, or a simple "feature present" inspection? We can put our experience to work for you.



Vision Guided Robots

Industrial robotics are smart; adding machine vision makes them even smarter. As pioneers in the field of vision guided robotics, our vision robotics designer have used robot guidance to improve applications from nuclear reactor maintenance to cucumber sorting packaging, as well as automotive assembly. As AIA Certified Vision System Integrators, our vision designers programmers work in collaboration with our robot designers to ensure you receive the right system for your requirements.

Deep Learning Vision

Advances in deep learning, or artificial intelligence, in machine vision have meant that deep learning vision can be a cost effective solution to tricky vision problems. We work primarily with the powerful Cognex "Vidi" AI platform and have successfully delivered many deep learning vision projects to our customers.



Traceability

While machine vision is a necessary component of a traceability solution, effective traceability requires part marking (or labelling), appropriate controls logic for sequencing & a database in which to store the information. Accompanied by the right equipment, traceability is really an automation strategy. Radix Technology Solutions is your traceability partner. We've worked with major automotive manufacturers to design their traceability strategy & implementation and have been recognized with awards for our achievements.

In addition to our core vision & robotics competencies, we're familiar with part marking systems from Rofin, Telesis & Technophar & controls from Siemens, Rockwell Automation, Telemecanique, Omron, Mitsubishi & Modicon.





End of line inspections

While in-process error proofing, quality, traceability & gauging inspections are a necessary part of an effective manufacturing strategy, final (or end of line) inspections are the opportunity to capture the characteristics of the product immediately prior to leaving the production line.

End of line inspection booths or stations can use both fixed mount & robot end of arm mounted cameras to effectively capture measurements, inspection criteria and traceability data for each product, creating a comprehensive record of final quality.



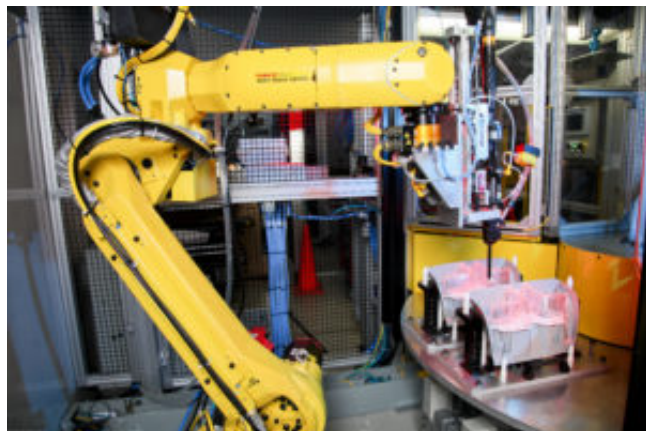
3D Inspections/Surface Inspections

High resolution surface scanning or gauging inspections can be difficult to implement. We've got some tools in our "tool kit" for these kinds of applications, including custom optics and lighting, deep learning algorithms and custom automation/fixtures for part motion & holding.

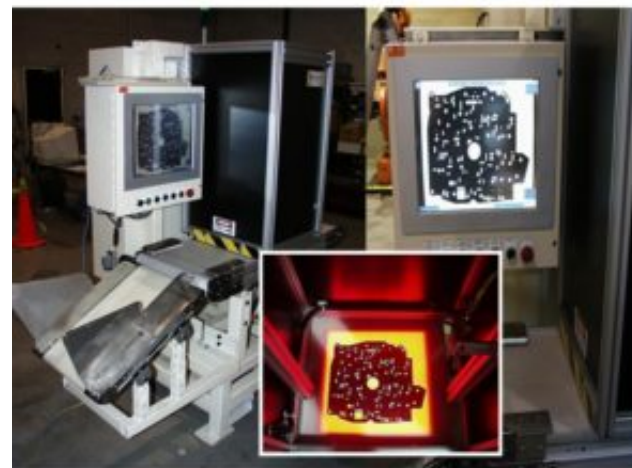
As AIA Certified Vision System Integrators, our vision designers & programmers work in collaboration with our automation designers to ensure you receive the right system for your requirements.



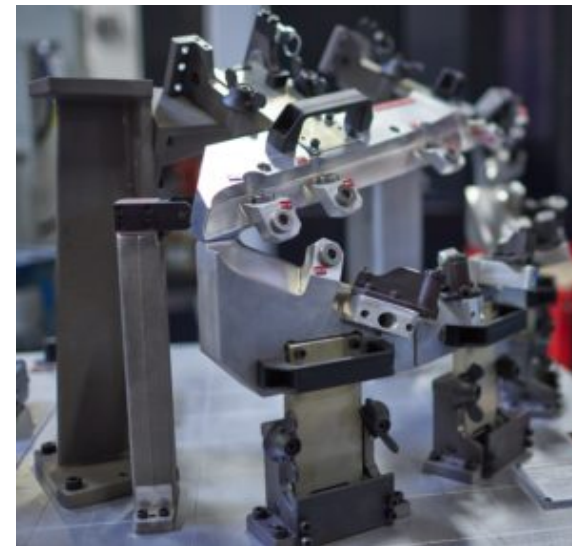
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TESTIMONIALS

"Thanks again for all the work you did. A last minute change in timing with little notice but once again your team pulled it off!"




Assembly Program Manager Tier 1





CONTACT US


TollFree: 1-877-467-2349
Phone: 519-737-1012
Fax: 519-737-1810
5215 Walker Rd.
Windsor, ON N9A 6J3


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