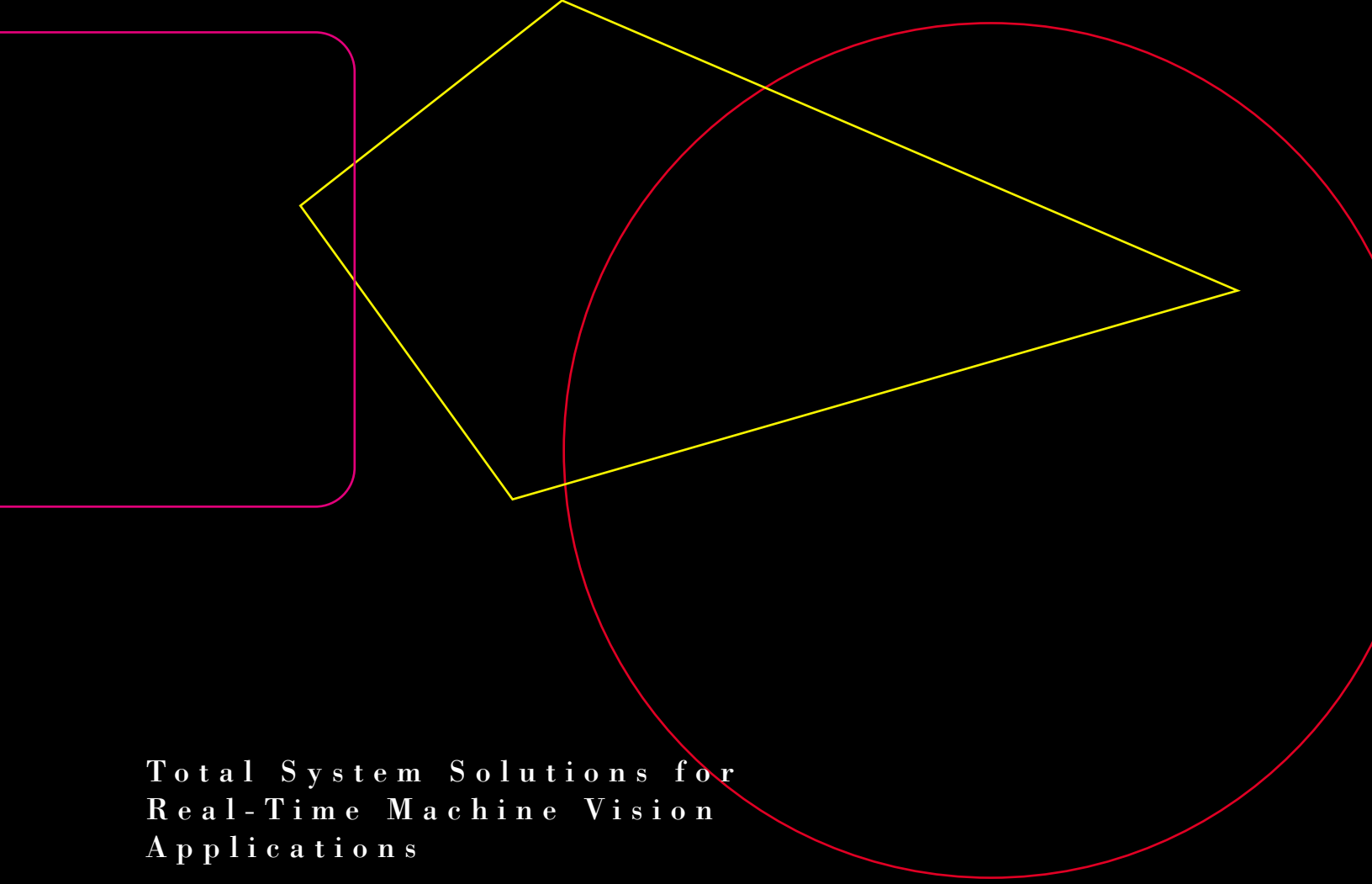



A u t o m a t e d V i s i o n L L C



Total System Solutions for
Real-Time Machine Vision
Applications

Automated Vision is a leader in providing total vision system design and implementation. We specialize in the development of all aspects of speed critical systems providing you with turnkey solutions to your machine vision applications.

- image analysis
- material handling
- part presentation
- data handling
- Statistical Process Control
- installation and training

By providing you with a completely integrated solution, Automated Vision ensures that all aspects of your machine vision application perform seamlessly in your environment without the requirement of additional resources.

A comprehensive library of image processing algorithms shortens the time from application definition to vision solution, putting your system on-line in the shortest possible time. The Imaging Development and Application System (IDAS) is designed on the familiar and dependable Windows NT operating environment.

Automated Vision is your most effective approach for the necessary knowledge and experience to total integrated vision application solutions.

Material Handling

We have the knowledge and resources to implement all aspects of product presentation and material handling from control devices to sensors, whatever your application may require.

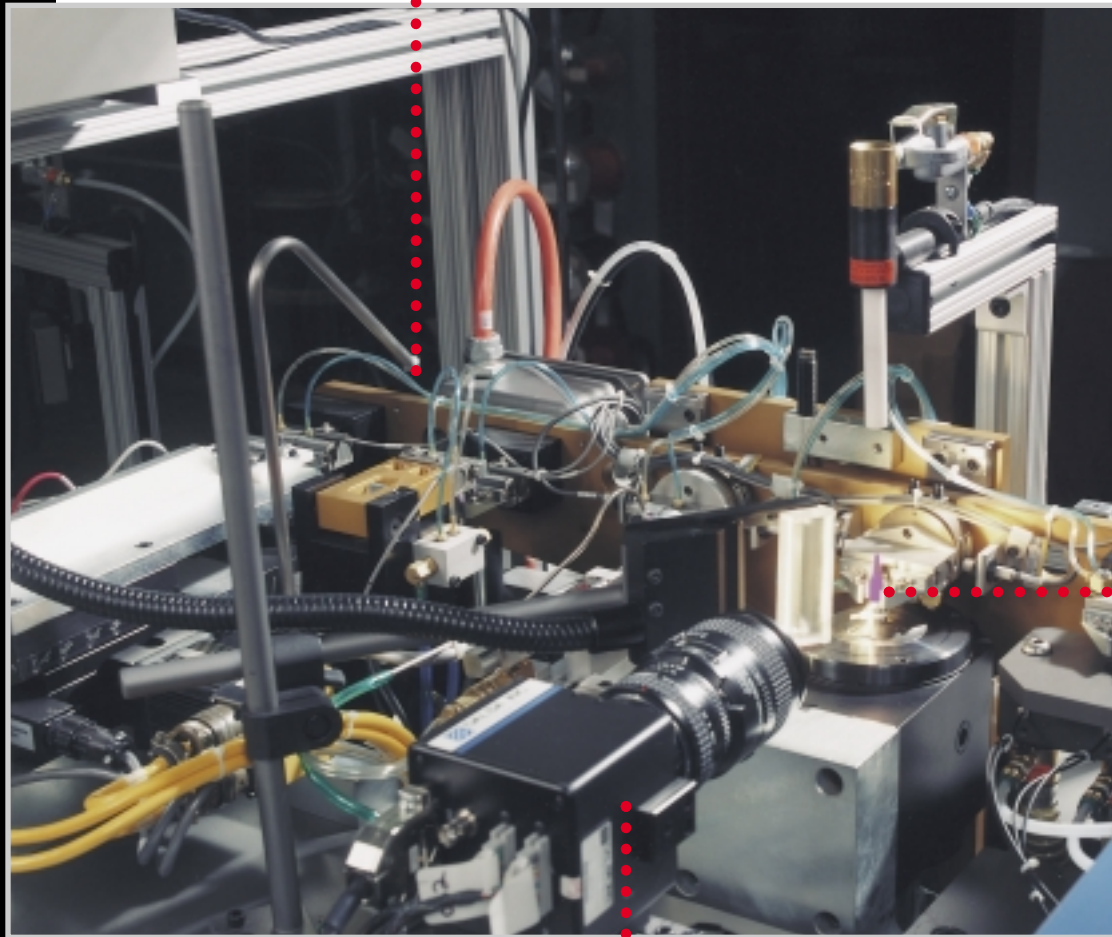


Image Acquisition

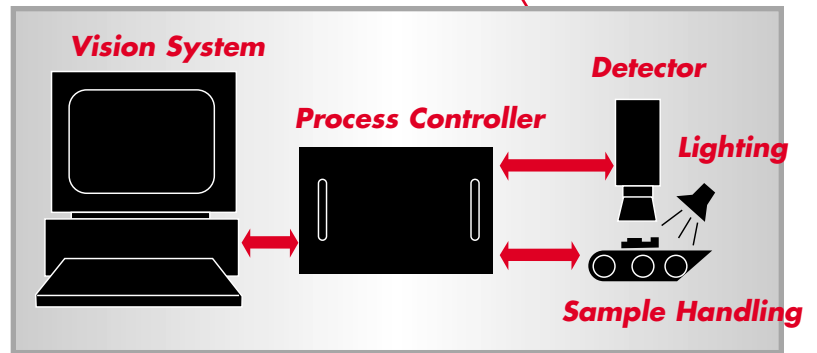
We apply our vast experience in high speed image acquisition. We will configure the detection resolution necessary for an optimal image from a wide range of CCD cameras.

Vision System

Automated Vision provides a comprehensive system for any high-speed application — web or discrete part inspection, measurement, non-contact gauging, or research and development. We will apply the expertise required to manage every step of the process from definition to operation.

The heart of Automated Visions' turnkey system is a Windows NT based vision system. The vision system provides support for image capture, analysis, feature extraction, measurements, data archiving, and decision making. (The Windows user interface provides friendly control of the vision process.)

Extensive experience in providing imaging solutions and a vast



library of imaging algorithms means rapid prototyping of your application, while determining the most cost-effective and feasible approach. Our systems can be programmed to support 100% inspection to deliver pass/fail identification, sorting or other process specific operation based on the measurement data. The data may be stored to a file or transmitted to your central computer to support your data audit requirements.

Part Presentation

We provide a total integrated process including lighting, optics, and product positioning for optimum product imaging.



Typical System Specifications

Automated Vision provides you with the optimum system configuration for your vision application as well as the ruggedness to operate in an industrial environment. All of our systems are cycled and debugged off-line to ensure proper operation immediately upon site installation.

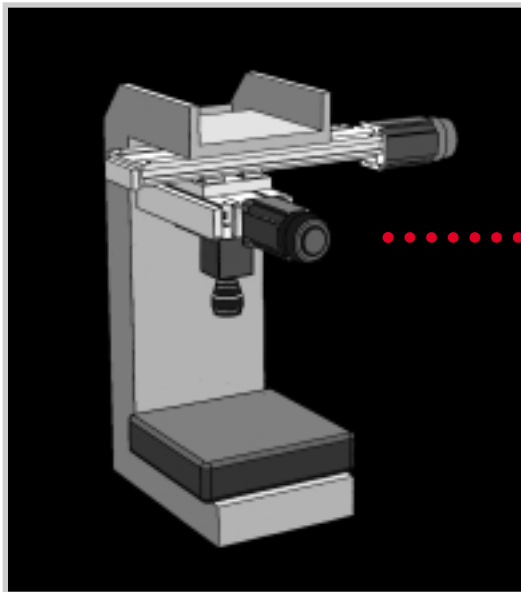
The typical vision system includes:

- Super Micro Pentium Processor
- Real-Time Image Processing Hardware
- CCD Camera
- Hard Disk Storage
- Windows NT Operating System
- Inspection Algorithms
- Measurement Algorithms
- Digital I/O Module
- Display Monitor
- Built-in Modem for Remote Diagnostics

Typical System Applications

Automated Vision is dedicated to providing creative solutions for image processing and machine vision applications. We are committed to provide ongoing support and future application assistance. Our expertise ranges over a wide variety of non-contact imaging applications, including but not limited to:

- In-Line Web Inspection
- Discrete Parts Inspection
- On-Line Continuing Process Inspection
- Measurement and Gauging
- Presence/Absence of Features
- Dimensions: diameter, length, width, shape, pitch
- Surface Features such as holes or scratches
- LASER 3-D Measurements
- Image Registration
- Comparison to Set Standards
- Measurement to Required Tolerances in Die-Cut and Stamped Components for Pass/Fail



Call us now to see how we can bring your imaging application on-line quickly and cost-effectively without the hassle of dealing with multiple vendors.

Off-line measuring system developed for an application requiring a flatness measurement as well as dimensional attributes and inspection for surface defects such as scratches. Sub-pixel processing provided excellent accuracy and repeatability of measurements to better than 0.0005".



A u t o m a t e d V i s i o n L L C
p r o d u c t i v i t y t h r o u g h v i s i o n