

Machine Vision is the Technology, Vision Studio™ is the Solution!

✓ 21CFR Part 11
Compliant

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Zynergy SolutionsSM Vision Studio INSPECTION WIZARD™

Zynergy Solutions' VISION STUDIO Inspection Wizard is a completely integrated machine vision inspection system that offers unprecedented power, flexibility and ease-of-use to end users and OEMs alike. The Inspection Wizard is designed to be a turnkey inspection and reject tracking solution for high-speed, high-accuracy machine vision applications in the Pharmaceutical, Consumer Products and Medical Device industries. The system is fully compliant to 21 CFR Part II as mandated by the FDA.

So Many Applications, Only One System

Customer Applications include:

- Date and Lot Code Verification (OCV)
- Component Code Verification
- Label Placement and Alignment
- Barcode Reading, including 1D, Data Matrix and RSS
- Bright Stock Identification
- Product Defect Detection
- Print Quality Inspection
- Cap Presence and Placement
- Safety Seal Inspection
- Fill-height Inspection
- Presence / Absence of Product or Components



Complete Graphical User Interface (GUI)

Inspection Wizard's powerful user interface is fully configurable, providing users with the ability to develop custom data displays, graphs and controls, which puts critical information at the fingertips of operators, supervisors and programmers. Built-in GUI tools include:

Real-Time Production Metrics — Displays all key inspection performance metrics at run-time.

Real-time Graphics — A fully scalable real-time graphics display allows for multiple inspection windows to be accessed from one screen.

Image Queue — Ability to save a user-configurable number of inspections with graphics and data allows for post analysis to improve your manufacturing process.

Flexible and Scalable

Inspection Wizard™ Systems are flexible inspection modules and include all of the required hardware, software and accessories to successfully integrate with new or existing packaging or manufacturing lines. Depending upon the complexity and speed of an application, the Inspection Wizard software can be configured to run on stand-alone smart cameras or PC-based systems. Typical configurations support single or multiple camera applications with the scalability to support additional inspection points if required.

The Vision Studio™ software is written to be platform independent. Some of the popular systems supported today include Acuity Visionscape, Cognex® VisionPro® and In-Sight®, and DVT® Legend Series.



Typical Pharmaceutical Application for Date Lot Code and Barcode Match String Verification

Superior Product Management Features

Inspection Wizard's product management capabilities include:

Fast and easy product development through the use of Vision Studio's Auto Train Wizard™. The Auto Train Wizard leads the operator through each step of the product training process, ensuring the correct sequence of inspection steps. The Auto Train Wizard also includes operator instructions and sample pictures for online tutorial assistance.

Show & Go Technology™ reduces the number of pre-programmed products required. Most existing vision technologies require a unique program for each product that is specifically tied to a machine set up at the time of programming. This is often difficult to repeat, resulting in machine downtime and lost production. Show & Go allows the machine vision system to conform to the machine rather than requiring the machine to conform to the vision system.

Simple product changeovers with a click of a button and selection from an SQL database-driven product list. Plus, the user may choose to have product changeover occur automatically from a host control system.

Painless and efficient changes to existing products through the use of Inspection Wizard's powerful and unique Template Manager. Templates are predefined and validated based upon previously stored inspections.

Integrated PLC Communications/ Reject Tracking

The Inspection Wizard™ provides operators with a complete view of the overall inspection system by fully integrating the vision system with the control system. This fully integrated approach greatly reduces product changeover times and increases overall line productivity.

Inspection Wizard provides tools to create a **fully integrated inspection system** through its built-in PLC communication and reject tracking capabilities. The system has user-configurable display and control tools such as:

- PLC register values are displayed/controlled directly on GUI
- PLC control pushbuttons
- PLC alarm message window displays
- PLC alarm historical display
- Product-based PLC recipe downloads
- *Reject System Setup Wizard* to learn reject system parameters

The system supports a broad offering of communication protocols for peripheral devices such as: PLCs, printers, lasers, robots, other host computers and databases, etc. Some of the more popular protocols supported include:

- Modicon® Modbus
- Allen Bradley® family including SLC 500, PLC 5, and Control Logix®
- Ethernet, Serial, and USB
- Control Logix TCP

Security and Compliance

The Inspection Wizard is fully compliant with FDA 21 CFR Part II regulations. This compliance provides for configurable auto-logout controls, multi-user configurations, and audit trail logging and reporting.

The Vision Studio™ family of products also provides a comprehensive database-driven security system that is user configurable. The system has five predefined default security levels, which can be assigned by the user, based upon their specific access requirements. Typical configurations would include access at the operator, supervisor and programmer levels, with differing access capabilities and parameter settings at each level. The system is capable of being expanded up to 15 security levels should additional logon or access control options be needed.

Open and Extensible

Vision Studio's open architecture, which is built on the Microsoft® .NET framework, has the flexibility to utilize and directly integrate with other manufacturers' software applications, including programs for PLCs, robots, motion control systems, printers and databases.

The Vision Studio Inspection Wizard supports a wide variety of manufacturing and packaging inspection applications. Providing a complete suite of vision and auto ID tools accessible from a single-user interface ensures the manufacturer a consistent look and feel to their inspection systems, regardless of the application. Deploying the same inspection system across multiple manufacturing and packaging applications ensures reduced development, support and training cost, as well as a lower overall total cost of ownership.

The following screen images demonstrate standard Pass/Fail data displays generated by Inspection Wizard. Common applications include Label Presence/Placement, Cap, and Security Seal Inspection for the Pharmaceutical, Food and Beverage, and Consumer Products industries.



Zynergy Solutions' Show & Go Technology™ uses an Auto Train Wizard™ to learn the product layout when changing products. Subsequent production is inspected relative to the trained product layout, resulting in reduced changeover times and increased productivity.

About Zynergy SolutionsSM

Zynergy Solutions is a full-service turnkey supplier of automated inspection, identification and motion solutions designed for the Aerospace, Consumer Products, Medical Device and Pharmaceutical industries. Zynergy is headquartered in Rochester, NY, with branch offices located in Boston, MA and Toronto, Ontario, Canada.

Zynergy is a proud member of the Zeller CorporationSM family of companies, a high-technology, value-add supplier of industrial automation and control equipment. For more information, please visit our website at www.zynsolutions.com. Or call us directly at 585.254.4937.



Typical Integrated Inspection Station

OUR FEATURES	YOUR BENEFITS
Auto Train Wizard™	Ease of product changeover
Show & Go Technology™	Reduced downtime, increased productivity and faster validation
21 CFR compliance built-in	Regulatory compliance
Based on Microsoft® .NET framework	Standard, open architecture
Integrated reject tracking	One GUI for inspection and control
PLC machine control built-in	Ease of setup and debug of reject tracking
Password protected access	Secure inspection system
Multiple hardware configurations	A price point for all inspection applications
Multiple camera support	Multiple Inspections to a single processor
Complete set of imaging tools	Extensible for a wide range of applications

Zeller Corporation

Zeller Electric
Zynergy Solutions
VSG Enviromation

RC Controls
A & D Devices

Zynergy Solutions

800 Emerson Street
Rochester, NY 14613-1804

585.254.4937 :T
585.254.4115 :F
www.zynsolutions.com

