

Visionscape I-Pak™

Pharmaceutical Label Verification

Product Summary

The Visionscape I-Pak™ inspection system is designed to meet demanding pharmaceutical industry requirements for reliable, accurate and validated inspection of human readable, Date/Lot, NDC, Label ID, 1-D and Data Matrix™ codes on the same label. Visionscape I-Pak enables manufacturers to comply with the FDA's current Good Manufacturing Practices. Visionscape I-Pak is 21CFR Part II compliant.

Built on the high-performance Visionscape™ machine vision platform, Visionscape I-Pak provides fail-safe identification of incorrect or illegible characters while tolerat-

ing normal print variation. Proven OCV (Optical Character Verification) algorithms adapt to acceptable changes in preprinted or overprinted codes to reduce false rejects.

Special attention is paid to characters in which a subtle defect might cause it to be mistaken for a different character such as an "O" vs. "D" or "B" vs. "8".



The Visionscape I-Pak also provides very high speed and accurate decoding of Data Matrix and 1-D codes. Advanced image processing algorithms perform even when Data Matrix codes are damaged or distorted due to printing or viewing distortions. Advanced error correction algorithms ensure that codes are decoded correctly.

Visionscape I-Pak provides 100% verification of every product on the line. I-Pak products have been installed in over 1,000 locations - and have been proven in validated installations at nearly every major pharmaceutical manufacturer worldwide.

The Visionscape I-Pak inspection package is delivered on the Acuity 2000 vision processor. This high performance vision processor used throughout the entire Visionscape product line delivers the functionality of a complete vision system in a single PCI bus slot of a host PC running Windows® NT. It supports a variety of machine vision cameras and offers on-board accelerated vision processing, I/O, communications, and networking.

Features/Benefits

- Label verification (Label ID, NDC and Date/Lot Codes)
- Verify inserts/outserts
- Label print quality and readability
- Data Matrix and 1-D high speed decodes
- Verify multiple codes in one field of view
- Changeover between products in seconds
- Easy set-up
- Validated algorithms
- Works with hot stamp, ink jet, laser, etc.
- Separate secured supervisor and operator functions
- Inspection lot results can be printed or saved to host
- Delivered on RVSI Acuity high-performance vision processors
- Y2K compliant
- Supports up to 4 cameras
- Available in two configurations: Board & Software or System Enclosure



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The Visionscape I-Pak Inspection package includes a comprehensive Graphical User Interface for point and click teaching, product selection, tolerance setting, reporting and runtime monitoring.

Configuration Options

The Visionscape I-Pak is available in a board/software or system enclosure configuration. The board/software option is intended for OEM customers who will be supplying the required PC and mechanical enclosure.

The system enclosure is a complete packaged system including a stainless steel enclosure, PC, flat panel touch screen display, keyboard, pointing device, CD ROM, UPS, Visionscape 2300 board, camera break out cable and I/O board. The stainless steel enclosure can mount to a floor stand, overhead mount or be placed on a shelf.

New Features

Visionscape I-Pak has been enhanced to provide additional functionality for our customers. A partial list of new features includes; 21 CFR Part II compliance, faster job downloads, faster edge tools, external/internal OCV match string capabilities, internal counters and support for a recordable CD to provide easy save/restore functionality. Additional features will continue to be added so that Visionscape I-Pak meets your needs today and into the future.

Acuity 2000 Vision Processor

- Single slot PCI card
- High performance vision engine off-loads host PC
- Acuity ASIC accelerates all vision processing for throughput & robustness
- Multiple inspections per board & per camera
- Supports 4 analog cameras
- On-board digital I/O, analog outputs, serial ports, and TCP/IP networking

Visionscape Software

- Broad collection of high-level vision and automatic identification tools
- Windows NT GUI for vision application development & deployment
- ActiveX™ components encapsulate functionality for easy customization with Visual Basic or Visual C++
- Open software architecture reduces integration costs, speeds time to market & deployment for OEM and factory floor users



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