VISIONSCAPE® I-PAK®

Packaging Inspection System

The Visionscape I-PAK inspection system is the proven solution chosen by major pharmaceutical manufacturers worldwide. Based on a selection of powerful machine vision tools and a simple user interface, I-PAK meets demanding pharmaceutical industry requirements for reliable, accurate and validated inspection of labels and products.

Typical applications include date/lot code verification, component ID verification, and a variety of other package, label or product inspections.

Visionscape I-PAK: At a Glance

- *Robust Optical Character Verification (OCV)*
- *High speed decoding and verification of 1D/ 2D codes*
- *21 CFR Part 11 Compliant*
- *Available in three versions for flexible implementation*

I-PAK SE: High speed, industrial touch screen PC in an IP67 stainless steel enclosure with tilted top, specifically designed for pharmaceutical environments

I-PAK SK: Solution Kit consists of Visionscape board and software, supports up to four progressive scan cameras or one CameraLink digital camera

I-PAK HE: Software CD offers I-PAK interface and functionality for up to four Visionscape Smart Cameras

For more information on this product, visit www.microscan.com.

Visionscape I-PAK: Available Codes

Linear — All Standard

2D Symbols — Data Matrix, QR

Stacked — PDF417, GS1 Databar

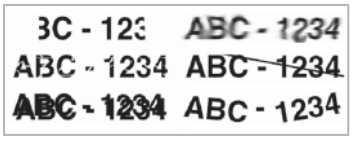
Human Readable — User-defined/ trainable Optical Character Recognition (OCR) and Verification (OCV)

Powerful Software

Based on the powerful Visionscape software, I-PAK offers a comprehensive selection of proven vision processing tools. The I-PAK user interface makes setup and deployment of applications fast and easy, and allows 100% verification of every product on the line.

Fail-Safe Identification

I-PAK provides fail-safe identification of incorrect or illegible characters while tolerating normal print variation. Proven robust OCV algorithms adapt to acceptable changes in preprinted or overprinted codes to reduce false rejects.



Sample print quality defects detected by I-PAK

FDA Compliance

I-PAK enables manufacturers to comply with FDA's current Good Manufacturing Practices and meets the requirements of 21 CFR Part 11 through user access control features and audit trail capabilities.

Advanced Capabilites

- Print quality and readability of date/lot codes, NDC or other human readable marks
- Inspection of codes on labels, cartons, inserts/ outserts or directly marked on products
- Accommodates a variety of marking methods (laser, hot stamp, ink jet)
- Fast and reliable decoding and quality verification of linear barcodes, GS1 Data-bar (RSS) and Data Matrix
- Fully configurable system for broad range of other product or package inspections

MICROSCAN®

Visionscape® I-PAK® Specifications and Options

I-PAK SK: Specifications for Solution Kit Configuration

MINIMUM PC REQUIREMENTS: I-PAK SK, host for VS0740 or VS0800 PCI board

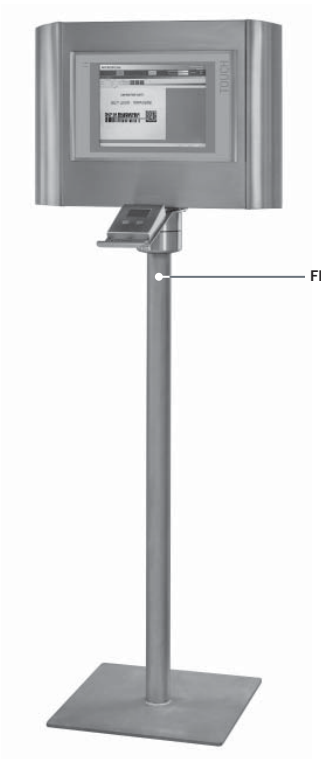
- Pentium P4 class PC (2.4 GHz or higher)
- Windows 2000 (SP4 or later), Windows XP (SP2 or later)
- 1 GB minimum RAM
- XGA display (True Color or 64K)
- One open PCI slot (for Visionscape Board installation)

I-PAK HE: Specifications for Smart Camera Software Configuration

MINIMUM PC REQUIREMENTS: I-PAK HE, platform for I-PAK HE GUI

- Pentium P4 class PC (2.4 GHz or higher)
- Windows 2000 (SP4 or later), Windows XP (SP2 or later)
- 1 GB minimum RAM
- XGA display (True Color or 64K)
- 100BaseT Ethernet NIC

I-PAK SE: Specifications for Stainless Steel Enclosure Configuration



MECHANICAL: Enclosure
Height: 20.63" (524 mm)
Width: 28.35" (720 mm)
Depth: 8.46" (215 mm)
Weight: 99.2 lbs (45 Kg)

MECHANICAL: Shelf Mount
Height: 5.12" (130 mm)
Depth: 6.14" (156 mm)
Weight: 26.5 lbs (12 Kg)

MECHANICAL: Floor Stand
Height: 19.69" (500 mm)
Width: 19.69" (500 mm)
Depth: 55.19" (1400 mm)
Weight: 66.1 lbs (30 Kg)

COMMUNICATION PROTOCOLS
Interfaces: RS-232, Ethernet TCP/IP

ELECTRICAL
Power Requirement: 115 VAC / 60Hz, 15 Amps max. or 230 VAC / 50Hz, 16 Amps max.
Power Consumption: 140 W max.

SYMBOLOGY TYPES
2D Symbologies: Data Matrix (ECC 0-200), QR Code, Micro QR Code
Stacked Symbologies: PDF417, GS1 Databar (Composite & Stacked)
Linear Barcodes: Code 39, Code 128, BC 412, I2 of 5, UPC/EAN, Pharmacode, Codabar, Code 93
Human Readable: User-defined/ trainable OCR and OCV

ENVIRONMENTAL
Enclosure: Stainless steel, IP67
Operating Temperature: 0° to 40°C (32° to 104°F)
Storage Temperature: 0° to 40°C (32° to 104°F)
Storage: Up to 95% (non-condensing)

DISCRETE I/O
Up to 16 discrete digital I/O points
4 strobe signals
4 trigger signals

SAFETY CERTIFICATIONS
FCC, CE

ISO CERTIFICATION
Issued by Det Norske Veritas
Cert No. 8446-2007-AQ-USA-ANAB

Performance data is determined using high quality Grade A symbols per ISO/IEC 15415 and ISO/IEC 15416 in a 25°C environment. For application-specific results, testing should be performed with symbols used in the actual application. Microscan Applications Engineering is available to assist with evaluations. Results may vary depending on symbol quality. **Warranty–**One year limited warranty on parts and labor. Extended warranty available.

MICROSCAN®

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