

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 SE2: High speed 19" industrial touch screen PC in an IP65 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 cameras



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.

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.

FDA Compliance

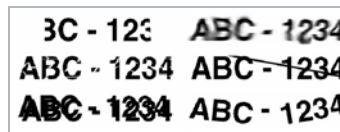
I-PAK enables manufacturers to comply with FDA's current Good Manufacturing Practices and meets the requirements of 21 CFR Part 11 through user access control features and audit trail capabilities.

Advanced Capabilities

- 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 Databar (RSS) and Data Matrix
- Fully configurable system for broad range of other product or package inspections

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

Visionscape I-PAK: Available Codes

Linear	All Standard 	2D Symbols	Data Matrix 	QR
Stacked	PDF417 	Human Readable	User-defined/ trainable Optical Character Recognition (OCR) and Verification (OCV)	
	GS1 Databar 			

MICROSCAN®



I-PAK SK: Specifications for Solution Kit Configuration

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

- Pentium P4 class PC (2.4 GHz or higher)
- Windows XP (SP3 or later)
- 1 GB minimum RAM
- XGA display (True Color or 64K)
- One open PCI slot (for Visionscape Board installation)

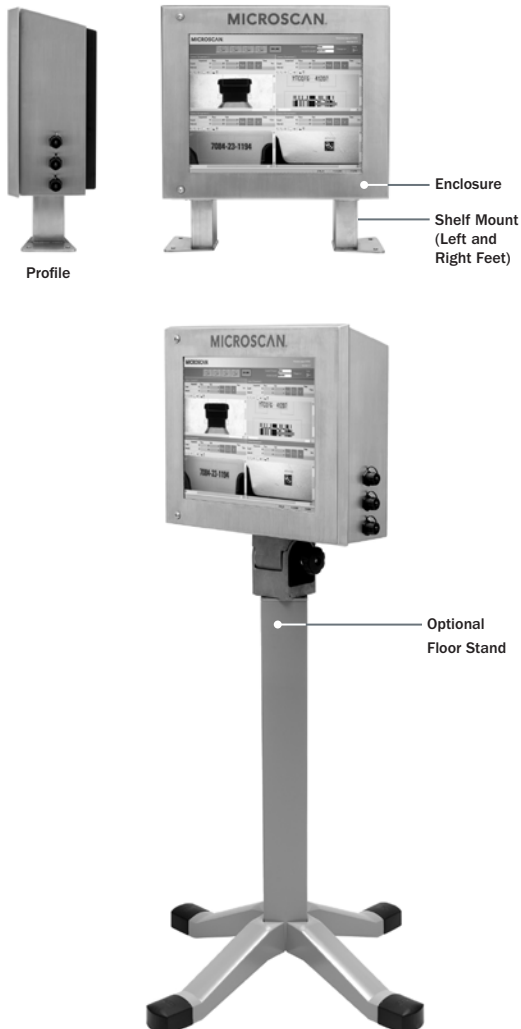


I-PAK HE: Specifications for Smart Camera Software Configuration

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

- Pentium P4 class PC (2.4 GHz or higher)
- Windows XP (SP3 or later), Windows 7 (32-bit, SP1 or later)
- 1 GB minimum RAM
- XGA display (True Color or 64K)
- 100BaseT Ethernet NIC

I-PAK SE2: Specifications for Stainless Steel Enclosure Configuration



I-PAK SE2 Includes: Enclosure, I-PAK software, Visionscape board, and camera breakout cable for up to 4 cameras

MECHANICAL: Enclosure

Height: 17.14" (435 mm)
Width: 20.06" (523 mm)
Depth: 8.10" (206 mm)
Weight: 53.0 lbs (24 Kg)

MECHANICAL: Shelf Mount

Height: 5.00" (127 mm)
Depth: 5.00" (127 mm)
Weight: 6 lbs/set of feet (2.8 Kg)

MECHANICAL: Floor Stand

Height: 41.81" (1062 mm)
Width: 23.62" (600 mm)
Depth: 23.62" (600 mm)
Weight: 43.6 lbs (19.8 Kg)

ENVIRONMENTAL

Enclosure: Stainless steel, IP65
Operating Temperature: 0° to 40° C (32° to 104° F)
Storage Temperature: -20° to 60° C (-4° to 140° F)
Storage: Up to 95% (non-condensing)

SYMBOLGY 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

ELECTRICAL

Power Requirement: 115/220V, 50/60Hz
Current: 0.9/0.45 Amps
Power Consumption: 100 W
Recommended Option: Uninterruptable Power Supply (UPS)

DISCRETE I/O

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

COMMUNICATION

Interfaces: RS-232, Ethernet TCP/IP
Ports: 2 RS-232, 3 USB, 2 10/100/1000 Ethernet

HUMAN MACHINE INTERFACE

19" (483 mm) touch screen, resistive touch mouse pad, optional DVD

SAFETY CERTIFICATIONS

FCC, CE

ISO CERTIFICATION

Certified ISO 9001:2008 Quality Management System

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 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. Free extended 3 year warranty upon online product registration.

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