

VS-1 TRACK AND TRACE

Complete Label Inspection Solution



The VS-1 Track and Trace machine vision inspection solution is a complete system that's efficient, easy to use, and simple to install. It features a smart camera, integrated lighting, and powerful machine vision tools to read barcodes, verify text, inspect labels for misalignment and skew, and a variety of other critical label and product inspections. From pharmaceutical to food and beverage applications, the VS-1 Track and Trace meets demanding industry requirements for reliable, accurate and easily validated packaging inspection.

VS-1 Track & Trace: At a Glance

- High speed decoding and verification of 1D/2D codes
- Robust Optical Character Verification (OCV)
- 21 CFR Part 11 Compliant for Pharmaceuticals
- Standard and High Resolution Models Available
- Includes components for complete solution:

- VS-1 Smart Camera and Lens
- Integrated NERLITE Dark Field Light
- I-PAK Inspection Software & Tools
- Intellifind Geometric Location Tool
- Power Supply Kit
- Communication Cable

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

Proven I-PAK Software

The VS-1 Track and Trace includes I-PAK vision processing software, a proven solution chosen by major manufacturers worldwide. The user interface makes setup and deployment of applications fast and easy, and allows 100% verification of every product on the line.

Powerful OCR & OCV

Robust OCR and OCV algorithms adapt to acceptable changes in preprinted or overprinted codes to reduce false rejects. Provides fail-safe identification of incorrect or illegible characters while tolerating normal print variation.

FDA Compliance

Meets requirements of 21 CFR Part 11 to enable pharmaceutical manufacturers to comply with FDA's current Good Manufacturing Practices.

Unique Lighting

The integrated NERLITE lighting solution provides even lighting across the field of view for illumination of reflective labels, with no need for a separate power supply or controller.

Advanced Capabilities

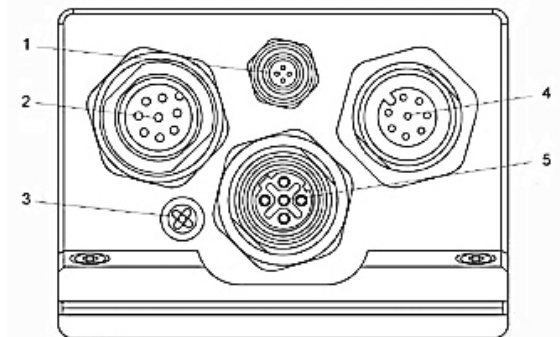
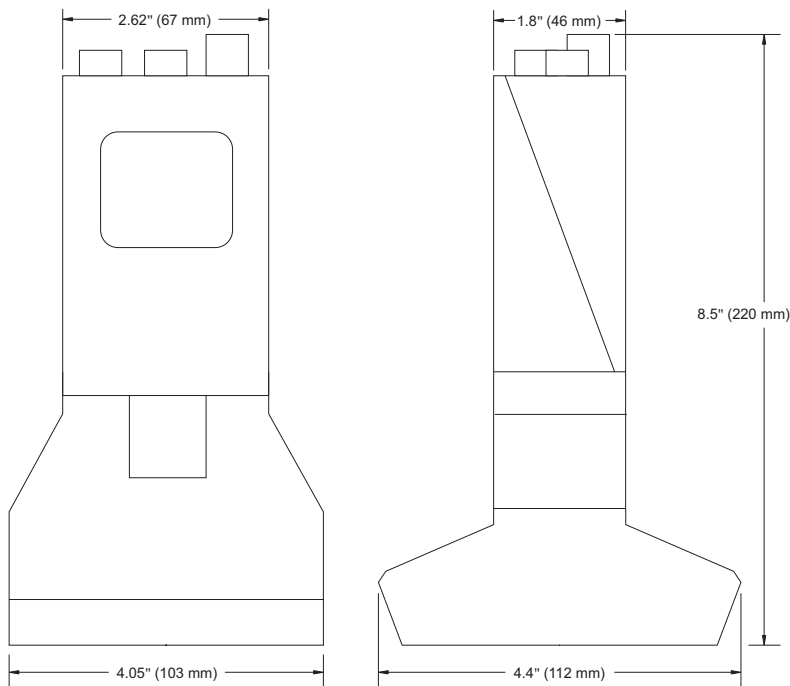
- Print quality and readability of date/lot codes, NDC or other human readable marks
- Inspection of codes on labels, cartons, inserts/outserts or directly marked on products
- Accommodates a variety of marking methods (laser, hot stamp, ink jet)
- Fast and reliable decoding and quality verification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

VS-1 Track & Trace: 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®

VS-1 TRACK AND TRACE SPECIFICATIONS AND OPTIONS



CONNECTORS

No.	Function
1	Lighting Power and Strobe
2	X1 Power and Primary IO
3	QuicSet
4	Secondary IO and Serial
5	X4 Ethernet

MECHANICAL

Height: 8.5" (220 mm)
Width: 4.05" (103 mm)
Depth: 4.4" (112 mm)
Weight: 2.33 lbs (1.06 Kg)

LIGHT COLLECTION

Progressive scan, full frame and partial frame
Sensor: 1/3 inch CCD
Standard: 640 by 480 pixels (VGA)
High Resolution: 1024 by 768 pixels (XGA)

IMAGING RATES

60 full frame images/second (VS-1 Standard)

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

INPUTS/OUTPUTS

Dedicated Trigger input
Outputs 1-3: 50 mA
Universal I/O 1-4: (Optoisolated) 20 mA at 24 VDC

DARK FIELD LIGHT

Note: VS-1 camera must be set to "Power Strobe" mode to enable operation
Type: High output LED, strobe, diffuse
Color Temperature: 6500K (white)
Light Output: 618cd
Stand Off: 1" to 2" (25 to 51 mm)
Field of View: 1.5" to 2" (38 to 51 mm)
Expected Life: 10,000 hours
Eye Safety: EN 60825-1: Class 1

ENVIRONMENTAL

Enclosure: Black anodized aluminum, IP67 rated
Operating Temperature: 0° to 40° C (32° to 104° F)
Storage Temperature: 0° to 50° C (32° to 122° F)
Storage: Up to 95% (non-condensing)

ELECTRICAL (VS-1)

Power: 24V at 200 mA (4.8 W)
Supply Voltage: 20.4 to 28.8V

ELECTRICAL (VS-1 with attached light)

Power: 24V at 1000 mA peak current at 6% duty cycle (24 W)
Supply Voltage: 23 to 24V

INDICATORS

LEDs: Trigger, Fail, Pass, Mode, Power, Link, Activity

INPUTS/OUTPUTS

LEDs: Trigger, Fail, Pass, Mode, Power, Link, Activity

COMMUNICATION PROTOCOLS

Interfaces: Ethernet 10/100 MB, supports TCP/IP, DHCP, APIPA and static IP address, EtherNet/IP (in Visionscape)
Software Flow Control: RS-232

SAFETY CERTIFICATIONS

FCC, CE

ROHS/WEEE COMPLIANT

ISO CERTIFICATION

Certified ISO 9001:2008 Quality Management System

COMPONENTS

P/N	Description
GMV-xHF16-0CM1G	VS-1 Smart Camera with IntelliFind
GMV-IP16-0HE0	I-PAK Inspection Software
98-HT00-OLP1G	White Dark Field Strobe
98-92800572	12 mm C-Mount Lens
98-C0206	Lens Extension Tube Set
98-HT00-OPS0	Power Supply Kit
98-HT00-OCE0	Ethernet Cable

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 Read Range and other 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 Read Range 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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