

## LVS-9510



Comes with handheld top cover (not shown) to keep label in position on viewing window.

## Desktop Barcode Verification System

The LVS-9510 is a high-performance system for off-line verification of barcodes to ISO/IEC, ANSI, GS1, and UDI standards.

The LVS-9510 is unique in the world of ISO verification due to its ease of use and ability to verify linear (1D) and two-dimensional (2D) codes without any change of equipment. The system automatically determines the symbology and aperture needed to evaluate the code and identifies and highlights trouble spots.

The LVS-9510 offers a "stitching" feature that allows grading of barcodes that are larger than the field of view.

### LVS-9510: At a Glance

- Validates to ISO/IEC, ANSI, GS1, and UDI print quality standards.
- Software upgrade options include Multi-Sector for verification of multiple barcodes on a label.
- 21 CFR Part 11 compliant-ready.
- Certified by GS1 US.
- Supports 15 languages with the ability to add more languages.
- Quality data reporting for auditing purposes.
- Manage operator permissions using LVS-95XX software or using Microsoft Active Directory.
- Includes NIST-Traceable Calibrated Conformance Standard Test Card for calibrating the system.

For more information on this product, visit [www.microscan.com](http://www.microscan.com).

### LVS-9510: Available Symbologies

	Standard	Postal		
Linear				
	Data Matrix	QR Code	Micro QR Code	Aztec
2D				
	Micro PDF417	PDF417	GS1 DataBar	
Stacked				

Please see the second page for a complete list of supported symbologies.

#### ISO/ANSI for 1D

LVS-95XX series barcode verifiers inspect all nine ISO/ANSI parameters for linear (1D) barcodes, have the ability to identify blemishes, and can perform simple human-readable validation.

#### ISO/ANSI for 2D

The LVS-95XX series verifies 2D codes and reports all parameters as specified in the applicable symbology specification.

#### Analytical Tools

Equipped with numerous analytical tools to identify and evaluate barcode errors. Problems are color-coded to make problem solving easy.

#### Software

LVS-95XX software includes GS1 System Symbol Specification Tables. GS1 tables set standards for barcode data structure and how to maintain the quality of codes during barcode creation. Microscan offers an online training course on GS1 tables and how these apply to different organizations.

#### Software Upgrade: EAIV

The Enhanced Application Identifier Verification (EAIV) option verifies that all GS1 Application Identifiers, such as Expiration Date, Global Trade Item Number (GTIN), and Batch Number, embedded in the data structure of a GS1 barcode match the data programmed in the EAIV feature by the user.

#### User Permission Options

Manage permissions through LVS-95XX software: Passwords are stored in a local database. All passwords are encrypted, include an expiration date, and count failed password attempts.

Manage permissions through Microsoft Active Directory: User privileges are based on Microsoft authentication and LVS-95XX permissions are assigned based on group membership.

#### Field of View Options

- 1.75" (44 mm)
- 3.0" (76 mm)
- 4.0" (102 mm)
- 4.5" (114 mm)
- 6.250" (159 mm)

# LVS-9510 SPECIFICATIONS AND OPTIONS

## SUPPORTED STANDARDS

### Application Standards

AIAG/DAMA/JAPIA/Odette  
ALDI  
ISO/IEC TR 29158 (DPM Cat 0)  
DHL  
FPMJ  
French CIP  
GS1 General Specifications  
HDMA Guidelines  
Health Industry Barcode (HIBC)  
IFAH  
Italian Pharmacode  
Japan Codabar  
Laetus Pharmacode  
Laetus Standard  
MIL-STD-130  
Pharmacy Product Number (PPN)  
Automatic GS1 or ISO  
GS1 (NTIN)  
Miniature Pharmacode  
Postal (EIB, USPS IMB/Code 128, POSTNET, Japan Post)  
PZN-big, normal, small (German Pharmacode)

### GS1 US Certification

Data Matrix for Healthcare  
Data Matrix (ECC 200)  
EAN/UPC  
EAN/UPC and extended codes  
EAN/UPC with CC  
GS1 DataBar Omnidirectional  
ITF-14  
GS1 DataBar-14 with CC (formerly RSS-14 with CC)  
UCC/EAN with Supplementals  
UCC/EAN-128  
UCC/EAN-128 with CC

### ISO Conformance Standards

ISO/IEC 15415, 15416  
ISO/IEC 15426-1, 15426-2  
ISO/IEC TR 29158 (DPM Cat 0)  
All supported ISO/IEC Symbology Specifications

## MECHANICAL

**Height:** 279.4 mm (11.0")  
(Includes rubber feet on system base.)  
**Width:** 279.4 mm (11.0")  
**Depth:** 228.6 mm (9.0")  
**Viewing Window:** 120.65 mm x 171.45 mm  
(4.75" x 6.75")  
**Weight (Approx.):**  
Unpackaged standalone weight:  
2.72 kg (6.0 lbs.)  
Shipping weight (includes all items packaged in shipping box, such as power supply and cables): 5.89 kg (13.0 lbs.)  
**Top Cover Dimensions:**  
139.7 mm x 190.5 mm (5.5" x 7.5")  
**Top Cover Weight:**  
155.92 g (5.5 oz.)

## MINIMUM PC REQUIREMENTS

(PC supplied by customer.)  
Windows® 7 Professional or  
Windows® 8.1 Professional  
Intel® Core™ i3 or higher  
4 GB RAM  
800 x 600 Screen Resolution  
One USB 2.0 port available per unit

## SUPPORTED SYMBOLOGIES

### Linear (1D) Symbologies

Codabar  
Code 128, Code 39, Code 93  
DataBar  
DataBar Expanded and Limited  
DataBar Omnidirectional  
DataBar Stacked and Truncated  
EAN/JAN-13  
EAN/JAN-8  
Enterprise Intelligent Barcode (EIB)  
4-State (4SB)  
GS1-128  
Hanxin Code  
HIBC  
Interleaved 2 of 5 (ITF)  
ITF-14  
Japan Post  
MSI Plessey  
Pharmacode-Italian and Laetus  
PZN 7 and PZN 8  
UPC-A and UPC-E  
USPS-128  
USPS Intelligent Mail Barcode (4-State Customer Barcode)

### Two-Dimensional (2D) Symbologies

Aztec  
DataBar with CC-A, CC-B, or CC-C  
EAN/JAN-13 with CC-A, CC-B, or CC-C  
EAN/JAN-8 with CC-A, CC-B, or CC-C  
ECC-200 (Data Matrix) including:  
• EIB CMDM  
• French CIP  
• GS1 Data Matrix  
• NTIN and PPN  
GS1-128 with CC-A, CC-B, or CC-C  
MaxiCode  
Micro QR Code  
MicroPDF417  
PDF417  
QR Code  
UPC-A with CC-A, CC-B, or CC-C  
UPC-E with CC-A, CC-B, or CC-C  
Note: CC = Composite Components  
Contact Microscan for a complete list of supported ECC-200 (Data Matrix) codes.

## ILLUMINATION

Type: White LEDs; Red filter (660nm)  
Optional clear window available for purchase.

## ELECTRICAL

Power Input: 12 VDC @ max. 2.5 A

## COMMUNICATIONS

USB 2.0 A plug to B plug cable  
1.8 m (6 ft.)

## CAMERA

Monochrome 5.0 megapixel

## ENVIRONMENTAL

Operating Temperature: 10° to 30°C  
(50° to 86°F)  
Storage Temperature: 0° to 40°C  
(32° to 104°F)  
Relative Humidity: 20% to 70%  
(no water condensation allowed)

## 21 CFR PART 11

The LVS-9510 is certified by GS1 US and is 21 CFR Part 11 compliant-ready.

## CALIBRATION

One of the following options:  
EAN/UPC Calibrated Conformance Test Card  
GS1-128 Calibrated Conformance Test Card

### Calibration Card Part Numbers (Included with System)

9510-5-1.75: EAN/UPC Test Card P/N 98-CAL020  
9510-5-3.0: EAN/UPC Test Card P/N 98-CAL020  
9510-5-4.0: EAN/UPC Test Card P/N 98-CAL020  
9510-5-4.5: EAN/UPC Test Card P/N 98-CAL020  
9510-5-6.250: GS1-128 Test Card P/N 98-CAL021

## FIELD OF VIEW OPTIONS

Part Number	Minimum X Dimension (Nominal)		Field of View (Approximate)
	1D	2D	
9510-5-1.75	3.0 mil (0.07 mm)	4.5 mil (0.11 mm)	1.75 inches (44 mm)
9510-5-3.0	4.0 mil (0.10 mm)	5.9 mil (0.15 mm)	3.0 inches (76 mm)
9510-5-4.0	6.0 mil (0.15 mm)	9.0 mil (0.23 mm)	4.0 inches (102 mm)
9510-5-4.5	7.0 mil (0.18 mm)	9.8 mil (0.25 mm)	4.5 inches (114 mm)
9510-5-6.250	9.4 mil (0.24 mm)	13.1 mil (0.33 mm)	6.250 inches (159 mm)

## SAFETY CERTIFICATIONS DESIGNED FOR

FCC, CE, UL

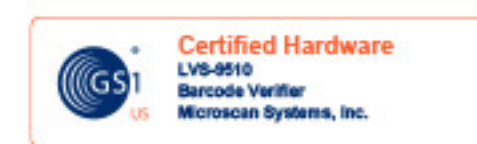
## RoHS COMPLIANT

## QMS CERTIFICATION

[www.microscan.com/quality](http://www.microscan.com/quality)

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Warranty – For current warranty information about this product, please visit [www.microscan.com/warranty](http://www.microscan.com/warranty).



# MICROSCAN®

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