OMRON
MICROSCAN

LVS® 9570 Operating Instructions

GS1 Solution Partner

Disclaimer
The information and specifications described in this manual are subject to change without notice.

Latest Manual Version or Technical Support
For the latest version of this manual, or for technical support, see your local Omron website. Your local Omron website can be located by visiting https://www.ia.omron.com/ and selecting your region from the Global Network panel on the right side of the screen.

Omron Microscan Systems, Inc.

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Important Information

- The LVS-9570 arrives to your site packaged in a specially designed shipping carton. DO NOT discard this shipping carton in case you must ship or store the system for any reason. Failure to use this carton when returning your product to Omron Microscan will void warranty.

- This guide is intended to help you understand the features and functionality of the LVS-9570. Be sure to reference the following additional resources:

  o LVS-9570 video demonstration located on the flash drive supplied with your system.

  o Refer to the "LVS-95XX Series Software Installation Guide" for steps on installing the LVS-95XX software; a hard copy version of this manual is packaged with your system and an electronic version is located on the installation media supplied with your system.

  o Refer to the "LVS-95XX Series Barcode Quality Station Operations Manual" for comprehensive steps on operating the LVS-95XX software. This manual is located on the installation media supplied with your system.

- If you have any questions or concerns about the performance of the LVS-9570, please call your local Omron Microscan distributor or Omron Microscan technical support:

  Omron Microscan Technical Support:

  +1-425-203-4841 | +1-800-762-1149 | helpdesk@microscan.com

Safety Instructions

The LVS-9570 has been carefully designed to provide years of safe, reliable performance. However, as with all electrical equipment, there are some basic precautions you should follow to avoid personal injury or damage to the system:

- Before using the system, carefully read all the installation and operating instructions.

- Observe all warning instruction labels on the system.

- Never insert anything into the openings of the system.

- Do not use the system near water or spill liquid into it.

- All components used to create your system are UL and CE approved. All circuits were designed to incorporate maximum safety. However, any equipment using electrical voltages may cause personal injury if improperly handled.

- Do not attempt to work on the system with the USB cable connected.

- To avoid damaging the system, unplug the USB cable before cleaning.

- If the system ever needs repair, consult Omron Microscan or your Omron Microscan distributor.

About the LVS-9570

The LVS-9570 is a handheld barcode verifier designed for offline verification of barcodes to ISO/IEC standards. The LVS-9570 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 using a lightweight, handheld verifier; autodiscriminate the symbology, narrow bar width and aperture to be used to evaluate the code; and highlight trouble spots in the code.

The LVS-9570 verifies barcode labels located on any flat surface, including barcode labels on corrugated cardboard boxes, shipping containers, or on a web.

The LVS-9570 is a line scan, camera-based system. An image of the barcode label is generated by placing the LVS-9570 flat onto the surface of a barcode label and scanning through the barcode label in either a ladder or picket fence orientation (see the "Scanning Direction, Speed, and Position" section for more information on ladder and picket fence orientations).

LVS-95XX Software Steps

Refer to the sections below for steps on:

- Logging on to the LVS-95XX software
- Turning on the camera
- Calibrating the LVS-9570

Note: Refer to the "LVS-95XX Series Software Installation Guide" for step-by-step instructions on installing the LVS-95XX software; a hard copy version of this guide is packaged with your system and an electronic version is located on the installation media supplied with your system.

Log In to LVS-95XX Software

To log on to the LVS-95XX software, click the "Setup" tab. The "Login" box appears.

Enter "admin" (not case sensitive) in the "Operator ID" field and "admin" (not case sensitive) in the "Password" field, and then click "OK." You are now logged in to the LVS-9570.

| Welcome | **Setup** | Calibration | Grading | Zoom | SRP View | Structure | Archive |
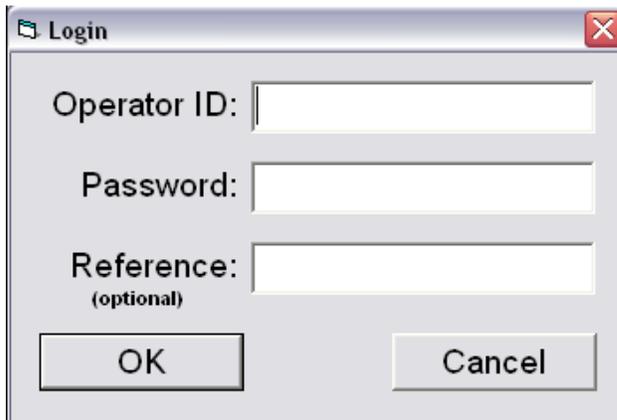
You next need to turn on the LVS-9570 camera. See the next section for detailed steps on turning on the LVS-9570 camera.

Turn On the LVS-9570 Camera

1. To ensure the LVS-9570 camera is turned on, click the "Setup" tab and verify that "9570" is selected in the "Camera" section.

   Note: If you are using only an LVS-9570, then "9570" will be the only camera listed in the "Camera" section.

   If you are using an LVS-9570 with an LVS-9510 (1.3 MP or 5.5 MP cameras) then all systems appear in the "Camera" section. Select the desired camera you wish to use.

2. You next need to calibrate the LVS-9570. See the next section for calibration steps.

Calibrate the LVS-9570

IMPORTANT: Calibrate the LVS-9570 at least weekly, if not daily. The entire calibration process takes less than 30 seconds to complete and ensures the LVS-9570 is certified according to industry standards.

- The Calibrated Conformance Standard Test Card should be replaced every two years.
- It is recommended to clean the sensor glass prior to calibration. See the "Cleaning the Sensor Window" section for more information.

1. To calibrate the LVS-9570, click the "Calibration" tab.

    The field of view and the parameters in the "Goal" and "Actual" columns are empty until the calibration card is scanned (as directed in the next step).

2. Place the EAN/UPC Calibrated Conformance Standard Test Card ("test card") on a flat surface.
3. Center the LVS-9570 at the top of the test card. The left and right arrows on the LVS-9570 indicate the sensor location.

Position the LVS-9570 at the top of the test card.

Pull the LVS-9570 down approximately 3" (76 mm) to 4" (101.6 mm) as directed in the next step.

CONFORMANCE CALIBRATION STANDARD
ENHANCED TEST CARD
FOR UPC/EAN SYMBOL VERIFIERS
USING 6 MIL APERTURES

EAN-13 MASTER GRADE

UPC-A MASTER GRADE

DECODABILITY: 86.3 %
CONTRAST: 82.7 %
TION: 84.2 %
86.2 %

DECODABILITY: 84.8 %
CONTRAST: 83.0 %
MODULATION: 84.7 %
RMAX: 86.6 %

3.6 %R

B

86.0 %R

DEFECTS (VOID)
22.7 %

DECODABILITY (BAR)
43.5 %

CALIBRATION #: UPCE-21257
WAVE LENGTH: 660 nm
EFF. APER: 0.006 in.

CONTRAST
48.0 %

C

55.4 %R

APPLIED ® 1653 East Main Street
Rochester, NY 14609
IMAGE Voice: (585) 482-0300
Fax: (585) 288-5989
Inc www.appliedimage.com
LVS9585 1719018

• PER ANSI X3182
• PER ISO/IEC 15416 STANDARDS

DATE ISSUED: 30 Aug 2017
THE STANDARD IS CERTIFIED FOR 2 YEARS FROM IN SERVICE DATE
WHEN HANDLED IN ACCORDANCE WITH USE OF CALIBRATED
CONFORMANCE STANDARDS DOCUMENTATION
© 1997, 2015, Applied Image Inc, ALL RIGHTS RESERVED

D

7.9 %R

PART NO. AI-CCS-UPC/EAN-ENHANCED REV R
NIST TRACEABLE - JUDGE CERTIFIED

4. Slowly pull down the LVS-9570 approximately 3" (76 mm) to 4" (101.6 mm). The EAN-13 and UPC-A Master Grade barcodes appear in the field of view on the **Calibration** tab.
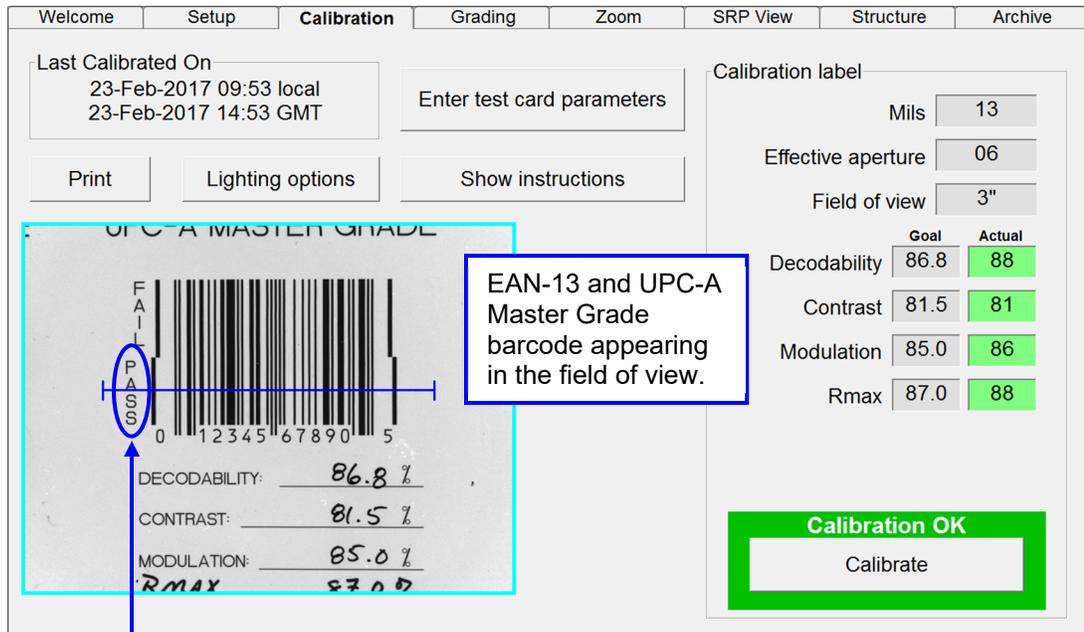
The blue line must pass through the "PASS" portion of the barcode.

5. Using the mouse, click one time in the "PASS" portion of the EAN-13 or UPC-A Master Grade barcode. The blue line will move to the "PASS" portion of the barcode.
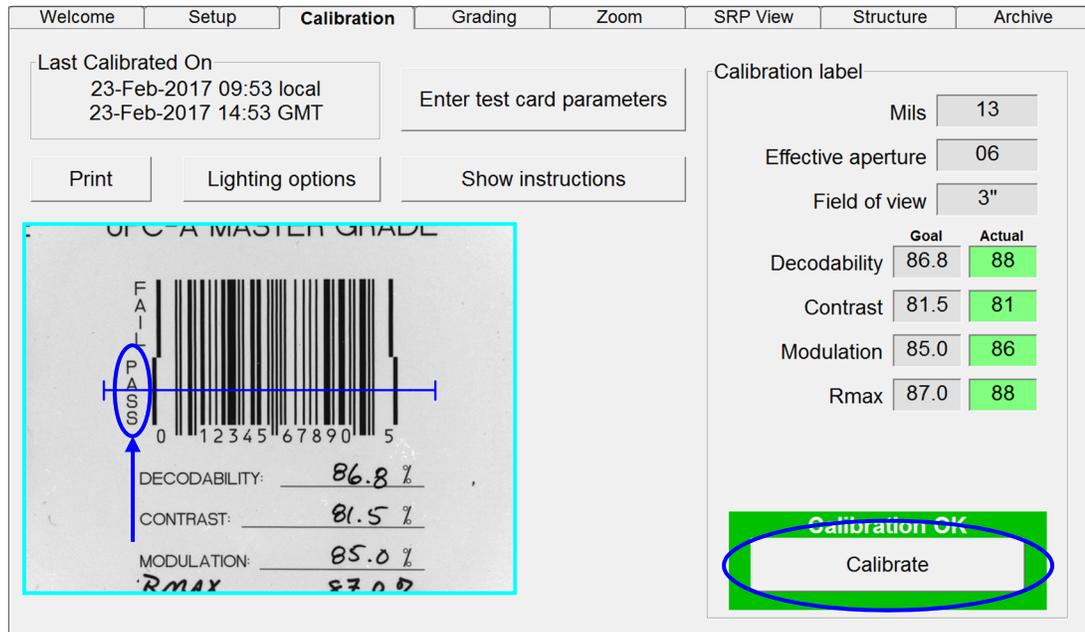
6. Click the "Calibrate" button.

    - Successful calibration is indicated by a green "Calibration OK" message.
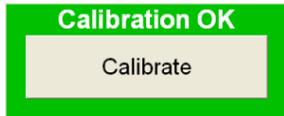
    - Failed calibration is indicated by a red "Calibration Needed" message.

    If calibration fails:

    - Re-scan the EAN-13 and UPC-A Master Grade barcodes and follow the above steps to calibrate. It may take 2 or 3 attempts before calibration is complete.

    - If calibration continues to fail, contact Omron Microscan or your Omron Microscan representative for further instructions.

    > **IMPORTANT:** The calibration score will hardly ever match exactly. This is normal and acceptable as long as the scores are within +/- 5 percent.

7. When calibration is complete, click the "Grading" tab to grade the desired barcodes. To grade a barcode, scan a barcode image, draw a box around the PASS portion of the barcode, ensuring enough space for the quiet zone (see the "Quiet Zone" section for more information). The verification results display immediately. Refer to the "Grading tab" section in the "LVS-95XX Series Barcode Quality Station Operations Manual" for detailed steps on grading barcodes; this manual is located on the installation media supplied with your system.

After drawing a box around the PASS portion of the barcode, the LVS-9570 indicator light turns one of the following colors:
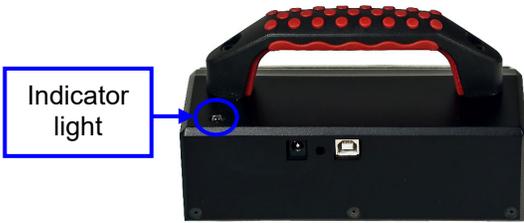
Color	Description
Yellow	Indicates the LVS-9570 is processing the barcode sector.
Green	Indicates all barcode parameters receive a passing grade of A, B, C, or D.
Red	Indicates if any of the barcode parameters receive a failing grade of F or if a barcode was not detected.

Note: If using the "Pass/Fail" option to grade barcodes, the LVS-9570 does not report the barcode parameters listed above. Instead, a green "Pass" message appears for passing barcodes and a red "Fail" message appears for failed barcodes. If using the "Pass/Fail" option, the indicator light turns red for failed barcodes and green for passed barcodes. Refer to the "ISO Grading" section in the "LVS-95XX Series Barcode Quality Station Operations Manual" for more information.

Hardware Overview

The LVS-9570 is comprised of two major hardware components: the sensor (protected by a glass covering) and a rubber roller. Both of these components must make contact with the surface of the label. The sensor detects the image and the roller activates an encoder that allows the LVS-95XX software to collect the image. It is important that the roller rolls contiguously across the surface along with the sensor. Failure to do so results in a distorted image.

A 6-foot (1.8 m) USB cable is provided with each LVS-9570 system. Some users require a longer length USB cable, which is allowable when used with a powered USB hub. USB hubs are available for purchase at local Electronics stores.

Additional LVS-9570 hardware images are below.

Sensor protected by glass covering

Rubber roller

Front of System

Handle

Left and right arrows indicate sensor location

Arrow indicates center of sensor

Back of System

USB connector

External power supply (not required for use with the LVS-9570)

Indicator light
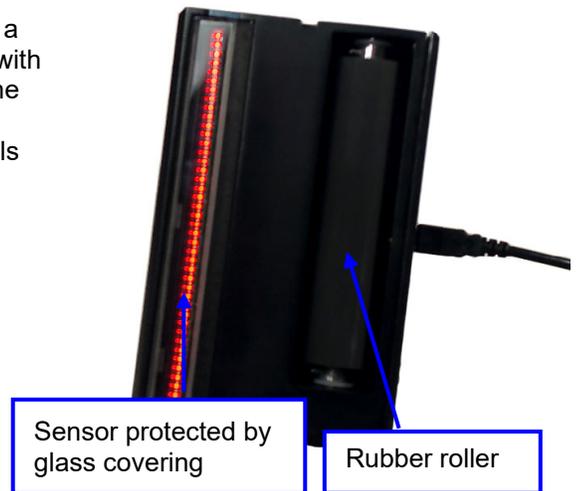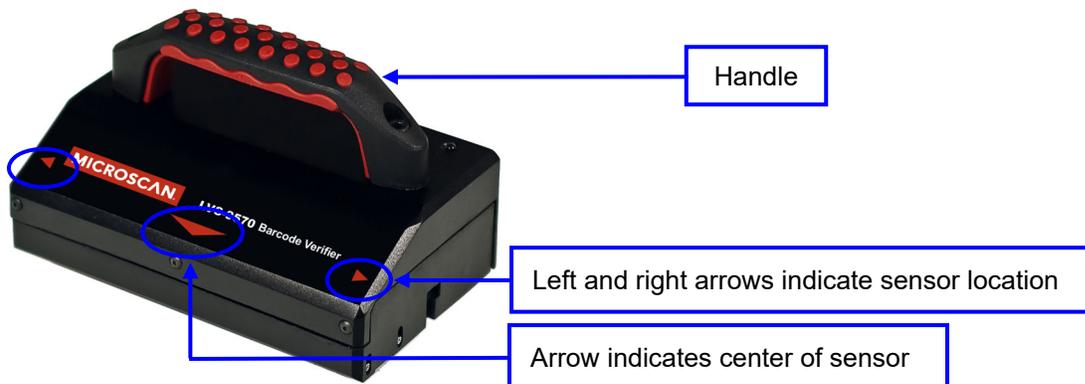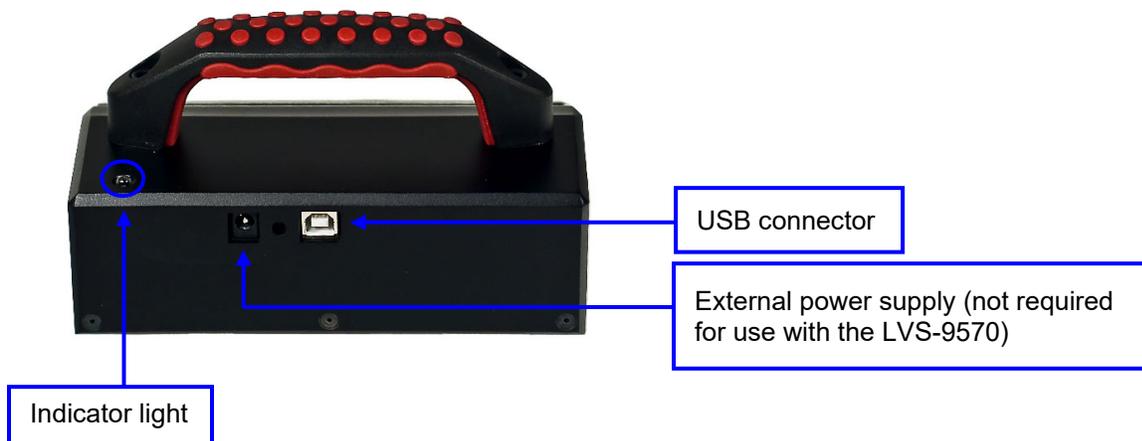
Scanning Direction, Speed, and Position

The LVS-9570 has a scanning width of 5.4" (137.16 mm) (including the quiet zone) for barcodes in a picket fence orientation and a scanning length of 12.0" (305 mm) (including the quiet zone) for barcodes in a ladder orientation. See the "Quiet Zone" section for more information on quiet zones.

<table>
<tr><td align="center">PICKET FENCE
ORIENTATION</td><td align="center">LADDER
ORIENTATION</td></tr>
<tr><td align="center">The LVS-9570 has a scanning width of 5.4" (137.16 mm) for barcodes in a picket fence orientation

Scanning Direction

12345678

5.4" (137.16 mm)
Scanning Width</td><td align="center">The LVS-9570 has a scanning length of 12.0" (305 mm) for barcodes in a ladder orientation

Scanning Direction

12345678

12.0" (305 mm)
Scanning Length</td></tr>
</table>

Quiet Zone

The **Quite Zone** is a clear space preceding the start character of a barcode symbol and follows the stop character. When scanning a barcode symbol, you must allow enough space for the Quiet zone. The required Quiet Zone space for each barcode varies by symbology. An error message will appear on the monitor if not enough space has been allowed for the Quiet Zone.

Linear (1D) Barcode Quiet Zones
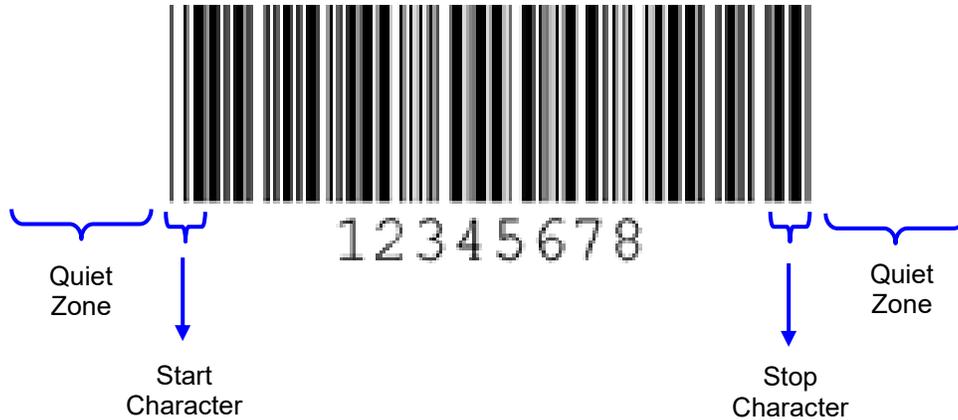
Two-Dimensional (2D) Quiet Zones
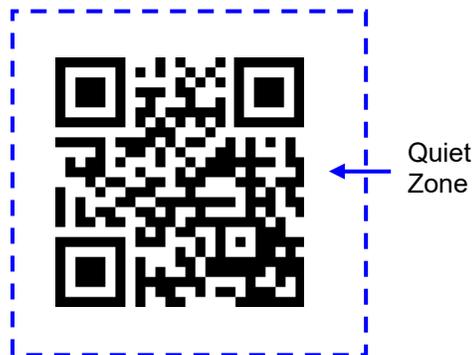
Scanning Direction

The LVS-9570 reads barcode labels in one direction only and must be "pulled" through a barcode label; it does not detect anything when "pushed" through a barcode label.

IMPORTANT: An image is collected only when the roller is rotating while the sensor passes over the barcode image.

☑ CORRECT	☒ INCORRECT
"Pull" the LVS-9570 through a barcode label.	DO NOT "push" the LVS-9570 through a barcode label.
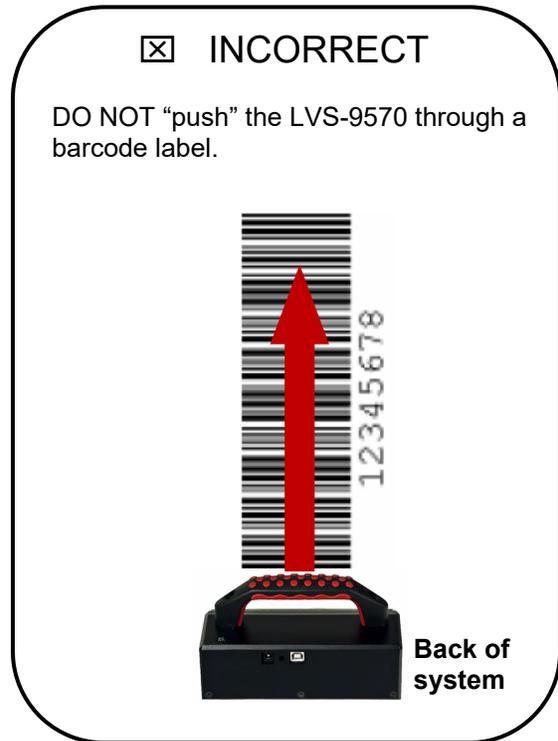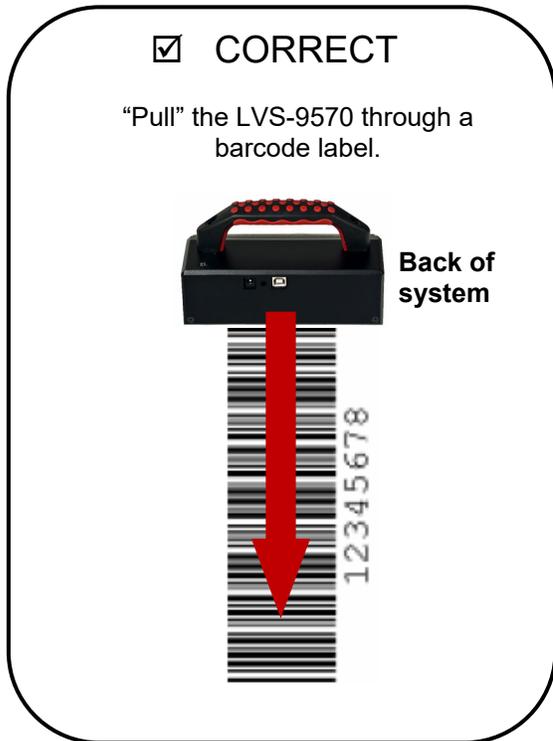
Scanning Speed

You must *slowly* pull the LVS-9570 through a barcode image. If the LVS-9570 is pulled too quickly through an image, an "Overspeed Problem" message appears on the computer monitor and the image will not be captured.

Scanning Positions

It is important to maintain a perpendicular orientation to the barcode image. Failure to do so may result in a distorted image. If the image displayed on the monitor appears distorted, scan the image again making sure the LVS-9570 is using a perpendicular orientation to the barcode and is pulled slowly. See the "Correct and Incorrect Images" section for examples of correctly and incorrectly scanned barcode images.

Ladder Orientation

If scanning a barcode in a ladder orientation, place the LVS-9570 at the top of the barcode with the back of the system facing the operator (see "A" below).

You may also scan from the bottom of the barcode as long as you are leading with the back side of the system (see "B" below).

When scanning, be sure to include space for the Quiet Zone.
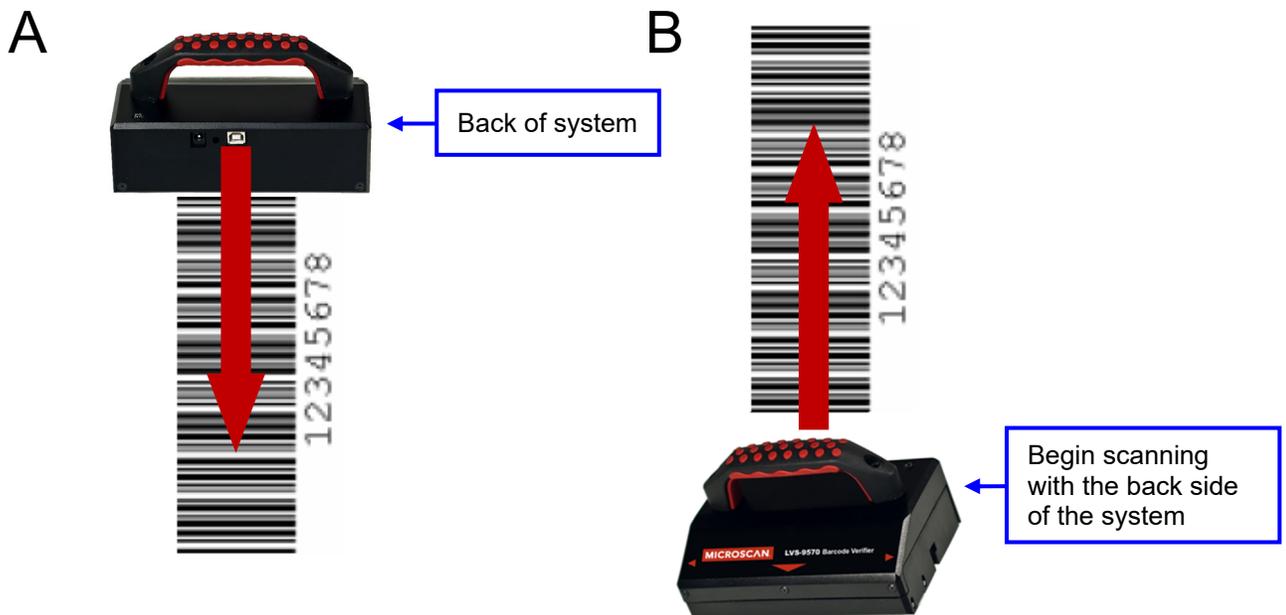
IMPORTANT: If scanning a label longer than 4.5" (114mm), the label image will be rotated 90º in the Grading tab. This allows the image to fit better into the window.

Picket Fence Orientation

If scanning a barcode in a picket fence orientation, place the LVS-9570 at the top of the barcode and scan the barcode leading with the back of the system, ensuring enough space for the Quiet Zone.

Back of system

12345678
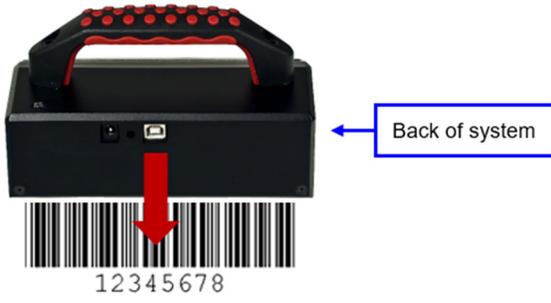
Correct and Incorrect Images

Correctly Scanned Image:

Incorrectly Scanned Image:

The image below shows an incorrectly scanned image created by sliding the LVS-9570 in a non-perpendicular way. When scanning an image, the LVS-9570 must maintain a perpendicular orientation to the barcode image.

Incorrectly Scanned Image:

The image below shows an incorrectly scanned image created by sliding the LVS-9570 horizontally across a barcode image.

Scanning Labels Applied to Products

IMPORTANT: The LVS-9570 reads flat surfaces only. Uneven surfaces, such as a bag of potato chips for example, cannot be read due to the uneven surface.

An image is collected only when the roller is rotating while the sensor passes over the image of the barcode and only if the user pulls down on the LVS-9570. The LVS-9570 will not read anything when pushed upwards through a barcode image.

Corrugated Cardboard Boxes

It is best to scan corrugated cardboard boxes in a picket fence orientation due to the uneven surface typically found on this type of substrate. However, if the label is too wide to scan in picket fence orientation, then scan the label in ladder orientation. See the "Scanning Direction, Speed and Position" section for more information on picket fence and ladder orientations.

When scanning, be sure to include space for the Quiet Zone.

IMPORTANT: Indentations in a corrugated cardboard surface may cause poor grade results due to the uneven surface reflecting light at a different angle. See the example image below showing an indentation through a barcode label on a corrugated cardboard box.

Indentation in corrugated cardboard box.
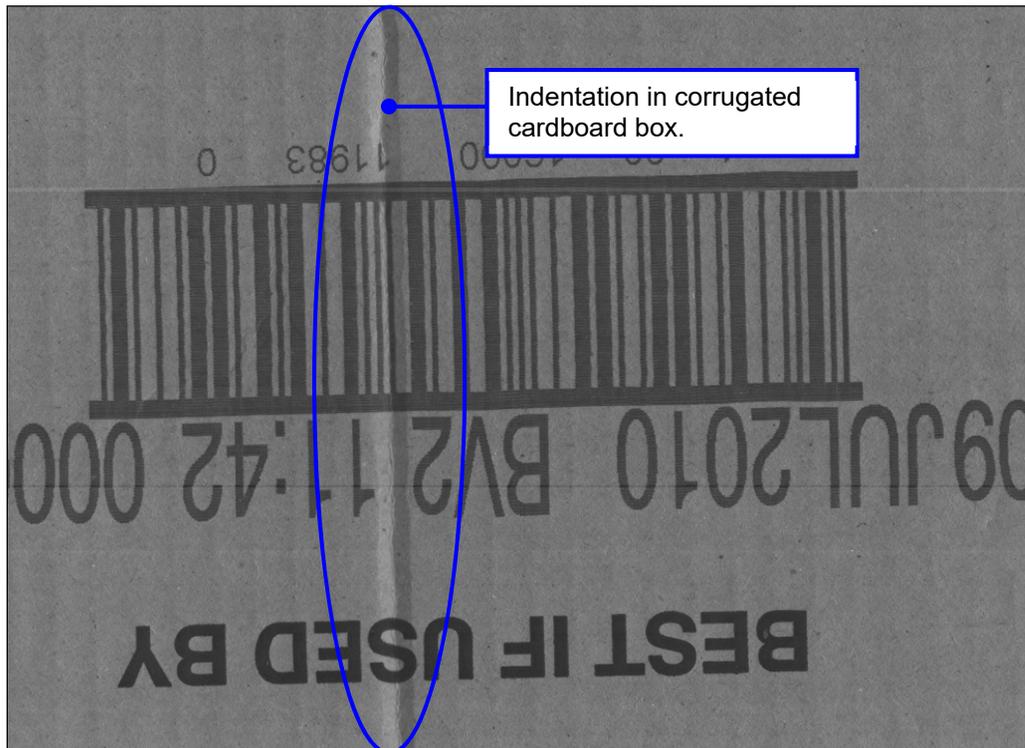
Shipping Containers

A shipping container must be flat and the LVS-9570 must be placed onto the shipping container in such a way that the sensor (glass window) and roller is located on the same surface.

You may use the picket fence orientation to pull the LVS-9570 through the entire height of the barcode from top to bottom, or use the ladder orientation to pull the LVS-9570 across the barcode label. See the "Scanning Direction, Speed and Position" section for more information on picket fence and ladder orientations.

When scanning, be sure to include space for the Quiet Zone.

Web Scanning

Barcode labels can be scanned on a web providing the web is stopped. The web should be fairly taut (tight) when a label is scanned. If not, place a flat surface under the barcode labels being scanned to maintain a flat surface. Scanning a barcode label on the web can be accomplished in either ladder or picket fence orientation; the results will be the same. See the "Scanning Direction, Speed and Position" section for more information on picket fence and ladder orientations.

When scanning, be sure to include space for the Quiet Zone.

Desktop Scanning

Scanning a paper document (containing a barcode label) on a desktop surface is one of the easiest ways to verify with the LVS-9570; however, the surface under the paper document must be flat. Scanning a paper document on a desktop surface can be performed in either ladder or picket fence orientation. See the "Scanning Direction, Speed and Position" section for more information on picket fence and ladder orientations.

When scanning, be sure to include space for the Quiet Zone.

Cleaning Instructions

Clean the Sensor Window

The sensor window may need to be cleaned daily, depending on use. Debris on the sensor window may cause the LVS-9570 to not grade accurately.

Locate the following supplies:

- One of the following:
    - Commercially available household glass cleaner, such as Windex®, Glassex®, VISS®, and Mr. Muscle®
    - Rubbing alcohol
    - Camera lens cleaning solution
- Soft, lint-free, non-abrasive towel or cloth, or tissue paper designed to clean a lens

Dampen the cloth with the cleaning solution and wipe the window. Inspect the window closely, looking for any label debris that may get stuck on the window. Do not scrape the window with a sharp object as this may damage the window causing the system to not grade correctly.

Any damage to the sensor window will be detected during the calibration process.

IMPORTANT:

DO NOT directly spray the sensor glass with glass cleaner; always spray a towel or cloth with glass cleaner and then gently wipe the sensor glass.

DO NOT use an industrial-strength glass cleaner
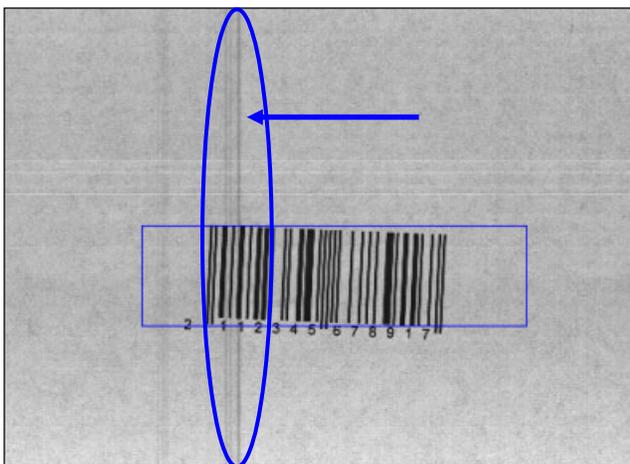
Streaks appearing in field of view.
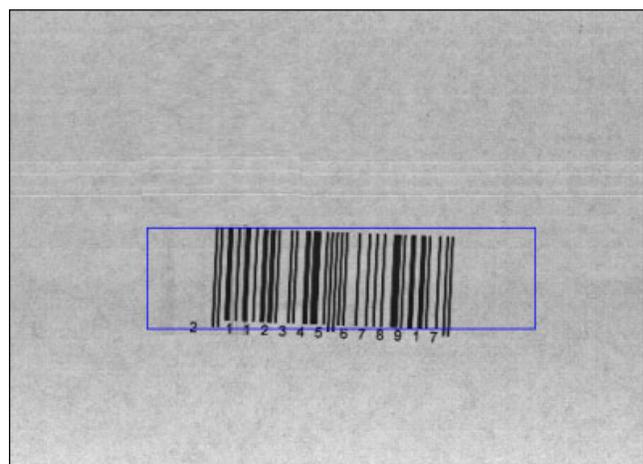
Streaks removed after cleaning sensor glass.

Clean the Rubber Roller

The LVS-9570 rubber roller may need cleaning periodically, as it is important to keep the roller free of debris, adhesive buildup and other surface materials.

Locate the following supplies:

- Dishwashing liquid
- 1 cup of water
- Lint-free cloth

> **WARNING:** *Use only dishwashing liquid to clean the rubber roller. Do not clean the roller with alcohol, window cleaner or petroleum-based products, as this causes the rubber to crack.*

Mix a few drops of dishwashing liquid into a cup of water and place a lint-free cloth into the solution until the cloth is saturated. Ring out the cloth so that no water drips from the cloth. Wipe down the rubber roller surface, removing any debris. As you wipe, turn the roller to clean the entire surface. Then, rinse out the cloth and wipe down the rubber surface again to remove any dishwashing liquid from the roller. Allow the roller to dry before using.

Window Scratches

When the sensor window is scratched, it may cause a streak in the image. This streak may cause the barcode grade results to be distorted if the streak is located within the barcode image. When a scratch occurs, you may need to return the system to Omron Microscan (or your Omron Microscan distributor) for sensor replacement. Contact your Omron Microscan representative for more information.

Additional Resources

Refer to the following resources for additional information on the LVS-9570:

"LVS-95XX Series Software Installation Guide"	This guide documents steps on installing the LVS-95XX software. A hard copy version of this guide is packaged with your system, and an electronic version is located on the installation media supplied with your system.
LVS-9570 video demonstration	A live video demonstration of the LVS-9570. The video is located on the flash drive supplied with your system.
"LVS-95XX Series Barcode Quality Station Operations Manual"	This comprehensive manual documents steps on operating the LVS-95XX software. The manual is located on the installation media supplied with your system.

Engineering Specifications

Physical Properties

Height:		
• Verifier height	2.13"	54.10 mm
• Total height including handle	4"	101.6 mm
Length	3.94"	100.08 mm
Width	6.56"	166.62 mm
Weight	2.3 pounds	1.04 kg

Line Scan Camera

- 400 DPI
- Floating Sensor Head

Overall Scanning Width

- 5.4" (137.16 mm) in picket fence orientation
- 12.0" (305 mm) in ladder orientation

Minimum X-Dimension

- 1D (Narrow Bar Width): 8.8 mils (0.0088") (0.223 mm)
- 2D (Cell Size): 12.5 mils (0.0125") (0.317 mm)

Verification

- 1D and 2D codes

Minimum PC Requirements

(PC Supplied by Customer)

- Windows® 10[1]
- Intel® Core™ 2 Duo Processor (or equivalent)
- 2 GB RAM
- One available USB 2.0 port

Light Source

- Red Light
- 660 nm

Inputs / Outputs

- USB 2.0 port

Operating Temperature

- 10º C (50º F) to 30º C (86º F)

Storage Temperature

- 0º C (32º F) to 40º C (104º F)

Relative Humidity

- 20% to 70% (non-condensing)

Calibration

- EAN/UPC Calibrated Conformance Test Card

21 CFR Part 11 Compliant-Ready

Specifications and photos subject to change.

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[1] The LVS-95XX software is currently supported on Windows 10 Professional and Windows 10 Enterprise operating systems. When this documentation refers to Windows 10, it is meant to refer to either of these two editions Windows 10 and excludes all other editions.

Supported Symbologies and Standards

Supported Symbologies

Symbology	Supported Standard(s)
Aztec	ISO 24778
Codabar	AIM BC3
Code 39	ISO 16388
Code 93	AIM BC5
Code-128	ISO 15417
Data Matrix	ISO 16022; DPM TR29158, ISO 21471:2000, MIL-STD-130N, MIL-STD-130N + UII
Data Matrix Rectangular Extensions	IS/IEC 21741
EAN-13	ISO 15420 & GS1 General Specifications
EAN-13 with 2 Digit supplemental	ISO 15420 & GS1 General Specifications
EAN-13 with 5 Digit supplemental	ISO 15420 & GS1 General Specifications
EAN-13 with CC-A	ISO 15420, ISO 24723 & GS1 General Specifications
EAN-13 with CC-B	ISO 15420, ISO 24723 & GS1 General Specifications
EAN-8	ISO 15420 & GS1 General Specifications
EAN-8 with CC-A	ISO 15420, ISO 24723 & GS1 General Specifications
EAN-8 with CC-B	ISO 15420, ISO 24723 & GS1 General Specifications
GS1 Data Matrix	ISO 16022 and GS1 General Specifications
GS1 Databar – 14	ISO 24724 & GS1 General Specifications
GS1 Databar – 14 Stacked	ISO 24724 & GS1 General Specifications
GS1 Databar – 14 Stacked with CC-A	ISO 24724, ISO 24723 & GS1 General Specifications
GS1 Databar – 14 Stacked with CC-B	ISO 24724, ISO 24723 & GS1 General Specifications
GS1 Databar – 14 with CC-A	ISO 24724, ISO 24723 & GS1 General Specifications
GS1 Databar – 14 with CC-B	ISO 24724, ISO 24723 & GS1 General Specifications
GS1 Databar Expanded	ISO 24724 & GS1 General Specifications
GS1 Databar Expanded CC-A	ISO 24724, ISO 24723 & GS1 General Specifications
GS1 Databar Expanded CC-B	ISO 24724, ISO 24723 & GS1 General Specifications
GS1 Databar Expanded Stacked	ISO 24724 & GS1 General Specifications
GS1 Databar Expanded Stacked CC-A	ISO 24724, ISO 24723 & GS1 General Specifications
GS1 Databar Expanded Stacked CC-B	ISO 24724, ISO 24723 & GS1 General Specifications
GS1 Databar Limited	ISO 24724 & GS1 General Specifications
GS1 Databar Limited with CC-A	ISO 24724, ISO 24723 & GS1 General Specifications
GS1 Databar Limited with CC-B	ISO 24724, ISO 24723 & GS1 General Specifications
GS1 Databar Omnidirectional	ISO 24724, ISO 24723 & GS1 General Specifications
GS1 Databar Stacked Omnidirectional	ISO 24724, ISO 24723 & GS1 General Specifications

Symbology	Supported Standard(s)
GS1 Databar Truncated	ISO 24724, ISO 24723 & GS1 General Specifications
GS1-128	ISO 15417 & GS1 General Specifications
GS1-128 with CC-A	ISO 15417, ISO 24723 & GS1 General Specifications
GS1-128 with CC-B	ISO 15417, ISO 24723 & GS1 General Specifications
GS1-128 with CC-C	ISO 15417, ISO 24723 & GS1 General Specifications
Han Xin	Draft AIM Specification
Interleaved 2 of 5	ISO 16390
ITF-14	ISO 16390 & GS1 General Specifications
Laetus Pharmacode	Laetus
MaxiCode	ISO 16023
Micro QR Code 2005	ISO 18004; DPM TR29158, MIL-STD-130N, MIL-STD- 130N + UII
MicroPDF417	ISO 24728
PDF417	ISO 15438
PPN (Pharmacy Product Number)	IFA Coding System / PPN-Code Specification
QR Code 2005	ISO 18004; DPM TR29158, MIL-STD-130N, MIL-STD- 130N + UII
UPC-A	ISO 15420 & GS1 General Specifications
UPC-A with 2 Digit supplemental	ISO 15420 & GS1 General Specifications
UPC-A with 5 Digit supplemental	ISO 15420 & GS1 General Specifications
UPC-A with CC-A	ISO 15420, ISO 24723 & GS1 General Specifications
UPC-A with CC-B	ISO 15420, ISO 24723 & GS1 General Specifications
UPC-E	ISO 15420 & GS1 General Specifications
UPC-E with 2 Digit supplemental	ISO 15420 & GS1 General Specifications
UPC-E with 5 Digit supplemental	ISO 15420 & GS1 General Specifications
UPC-E with CC-A	ISO 15420, ISO 24723 & GS1 General Specifications
UPC-E with CC-B	ISO 15420, ISO 24723 & GS1 General Specifications
USPS-128	USPS2000508

Additional Notes

- GS1 General Specifications can be obtained by contacting your local GS1 office.
- ISO Symbology Standards can be obtained from this link: https://www.iso.org/standards.html.
- AIM Symbology Standards can be obtained from this link: https://www.aimglobal.org/aim-standards.html.
  In addition to adherence to the symbology specifications, LVS-95XX systems comply with the following standards:
- ISO 15415 - Barcode print quality test specification - Two-dimensional symbols
- ISO 15416 - Barcode print quality test specification - Linear symbols
- ISO 15426-1 - Barcode verifier conformance specifications - Part 1: Linear symbols

- ISO 15426-2 - Barcode verifier conformance specification - Part 2: Two-dimensional symbols

Application Standards

An Application standard is a specific protocol established by a group or industry, such as the military, hospitals, FDA, etc. Currently, the LVS-95XX Series supports the following Application standards:

- *AIAG / JAMA / JAPIA / ODETTE*
- *ALDI*
- *Chinese Sensible (Han Xin) Code*
- *DHL*
- *FPMAJ*
- *French CIP*
- *GS1 1D Report.doc[2]*
- *GS1 2D Report.doc[1]*
- *GS1 General Specifications*
- *GS1 NTIN*
- *HDMA Guidelines*
- *HIBC*
- *IFAH*
- *ISO/IEC 15415/15416*
- *Italian Pharmacode*

- *ITF including 2 digits*
- *Japanese Codabar*
- *Laetus Pharmacode*
- *MIL-STD-130N*
- *MIL-STD-130N + UII*
- *Miniature Pharmacode*
- *Postal (IMB, Japan Post, Mailmark, PostNet)*
- *Postmatrix Code (PMC) with size checking*
- *Postmatrix Code (PMC) without size checking*
- *PPN Code*
- *PZN-big(German Pharmacode)*
- *PZN-normal (German Pharmacode)*
- *PZN-small (German Pharmacode)*
- *USPS Code 128*

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[2] *GS1 1D Report.doc and GS1 2D Report.doc are the default custom reports. You can create your own custom report(s) by following the steps outlined in Appendix G: Special Features (refer to the section entitled "Custom Reports").*