

**MICROSCAN®**

# LVS® 9570 Operating Instructions



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### **GS1 Solution Partner**



### ***Disclaimer***

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

### ***Latest Manual Version***

For the latest version of this manual, see the Download Center on our web site at:  
[www.microscan.com](http://www.microscan.com).

### ***Technical Support***

For technical support, e-mail: [helpdesk@microscan.com](mailto:helpdesk@microscan.com).

### ***Warranty***

For current warranty information, see: [www.microscan.com/warranty](http://www.microscan.com/warranty).

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## Important Information to Read

- 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 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:
  - LVS-9570 video demonstration located on the flash drive supplied with your system.
  - 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.
  - 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 Microscan distributor or Microscan technical support:

Microscan Technical Support:

+1-425-203-4841 | +1-800-762-1149 | [helpdesk@microscan.com](mailto: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 Microscan or your 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

---

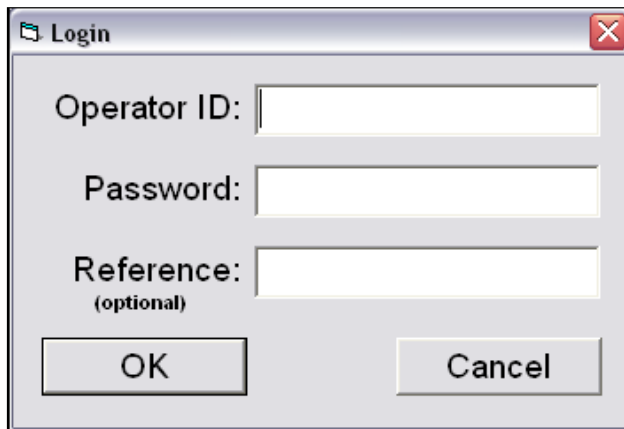
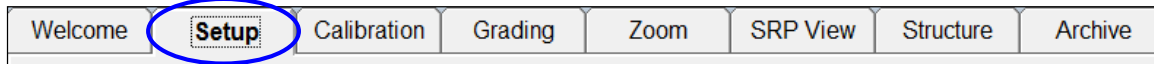
**Note:** Refer to the “LVS-95XX Series Software Installation Guide” for step-by-step instructions on installing the LVS-95XX software; a hard copy version of this guide is packaged with your system and an electronic version is located on the installation media supplied with your system.

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## Log On to the 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.



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) or LVS-9505 (1.3 mp or 2.1 mp cameras), then all systems appear in the "Camera" section. Select the desired camera you wish to use.

The screenshot shows the 'Setup' tab of the LVS-9570 interface. The 'Camera' section is highlighted with a blue box, and a blue arrow points from the 'Additional camera' label to the '9570' option. The 'Current information' section shows the date and time. The 'System Settings' section includes options for minimum passing score, password expiration, and auto logoff. The 'Optional features' section includes a list of options and a button for 'Optional Features Activation'. The 'Change password' button is at the bottom.

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).

Values are not entered in the “Goal” and “Actual” columns until the calibration card is scanned.

An image does not appear in the field of view until the calibration card is scanned.

|              | Goal | Actual |
|--------------|------|--------|
| Decodability | ??.  | ??     |
| Contrast     | ??.  | ??     |
| Modulation   | ??.  | ??     |
| Rmax         | ??.  | ??     |

**Calibration Needed**  
Calibrate







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.

**CALIBRATED CONFORMANCE STANDARD  
TEST CARD  
FOR EAN/UPC SYMBOL VERIFIERS  
USING 6 MIL APERTURES**

| EAN-13 MASTER GRADE   | UPC-A MASTER GRADE   |
|---|--|
| <br>FAIL PASS<br>5 0 1 2 3 4 5 6 7 8 9 0 0   | <br>FAIL PASS<br>0 1 2 3 4 5 6 7 8 9 0 5         |
| DECODABILITY: <u>85.6</u> %   | DECODABILITY: <u>84.3</u> %  |
| CONTRAST: <u>82.6</u> %   | CONTRAST: <u>82.7</u> %  |
| MODULATION: <u>83.7</u> %   | MODULATION: <u>85.1</u> %  |
| <br><b>DEFECTS (VOID)</b><br><u>22.1</u> %   | <br><b>DECODABILITY (BAR)</b><br><u>43.2</u> % |
| CALIBRATION # <u>UPC2-3350</u><br>WAVE LENGTH: <u>670 nm</u><br>EFF. APERT: <u>0.006 in.</u>  |  |
|  <b>BarCodes and eCom™</b><br>US   |  |
| • PER ANSI A3182<br>• PER ISO/IEC 15416 STANDARDS   |  |
| DATE ISSUED: _____<br><small>THE STANDARD IS CERTIFIED FOR 2 YEARS FROM IN SERVICE DATE.<br/>           WHEN HANDLED IN ACCORDANCE WITH USE OF CALIBRATED<br/>           CONFORMANCE STANDARDS DOCUMENTATION.</small> |  |
| <small>© 2005 GS1 US. ALL RIGHTS RESERVED.</small>  |  |

**CONTRAST**  
48.1 %



PART NO. CCSV-1    REV Q-2

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.

Welcome Setup **Calibration** Grading Zoom SRP View Structure Archive

Last Calibrated On  
16-Jan-2012 11:23 local  
16-Jan-2012 16:23 GMT

Enter test card parameters

Print Show instructions

Calibration label

Mils 13

Effective aperture 06

Field of view 5.4"

|            | Goal | Actual |
|------------|------|--------|
| Resolution | 86.3 | 86     |
| Modulation | 84.8 | 84     |
| Rmax       | 85.8 | 84     |

**Calibration OK**

Calibrate

USING 6 MIL APERTURES

EAN-13 MASTER GRADE UPC-A MASTER GRADE

5 012345 678900 5

DECODABILITY: 86.0 %

CONTRAST: 82.7 %

MODULATION: 85.7 %

5 012345 678900 5

DECODABILITY: 86.3 %

CONTRAST: 82.2 %

MODULATION: 84.8 %

EAN-13 and UPC-A Master Grade barcodes appearing in the field of view.

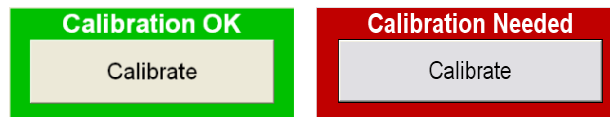
5. Using the mouse, click one time in the "PASS" portion of the EAN-13 or UPC-A Master Grade barcode. The blue line will move to the "PASS" portion of the barcode.

Click anywhere 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 code.

6. Click the "Calibrate" button.
- Successful calibration is indicated by a green "Calibration OK" message.
  - Failed calibration is indicated by a "Calibration Needed" message and the calibration button area turns red. 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 Microscan or your Microscan representative for further instructions.

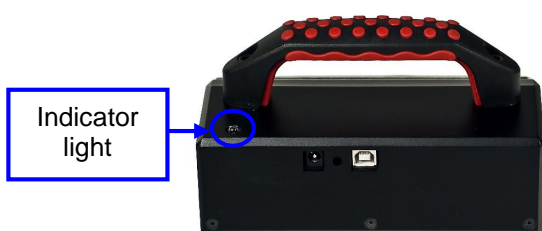
**IMPORTANT:** The calibration score will hardly ever match exactly; this is normal and acceptable as long as the scores are within +/- 5 percent.



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. |

Overall grade: 4.0/10/660 (A)

ISO Grading: ☐ Full ☒ Pass/Fail

View: ☐ Overall grade ☐ Contrast ☐ Modulation ☐ Decodability ☐ Defects ☐ OCR ☐ Zoom

Barcode parameters:

Symbology: UPC-A

Xdim: 13.0 mils 100%

Edge determ: PASS

Min Reflect: PASS

Decode: PASS 154

Quiet zone: PASS

Contrast: 4.0 (A) 77%

Modulation: 4.0 (A) 84%

Decodability: 4.0 (A) 85%

Defects: 4.0 (A) 7%

Blemish: 4.0 (A) 0%

Scoring legend:

3.5-4.0 (A) 2.5-3.4 (B) 1.5-2.4 (C) 0.5-1.4 (D) 0.0-0.4 (F)

WARNING: This symbol should use application standard GS1

**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.

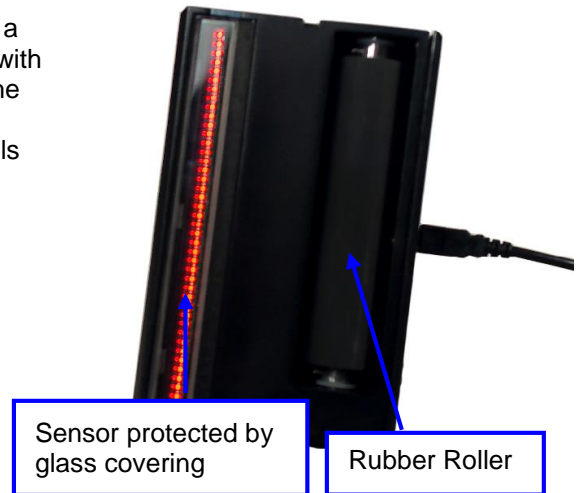
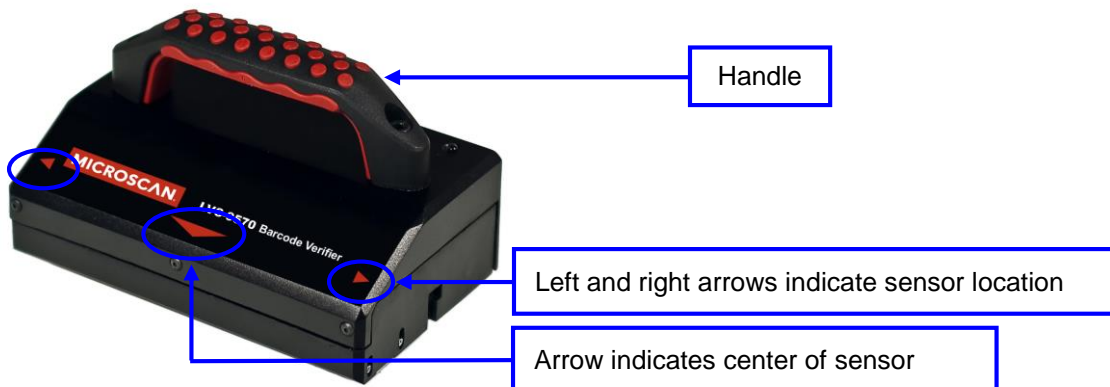
## Hardware Overview

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.

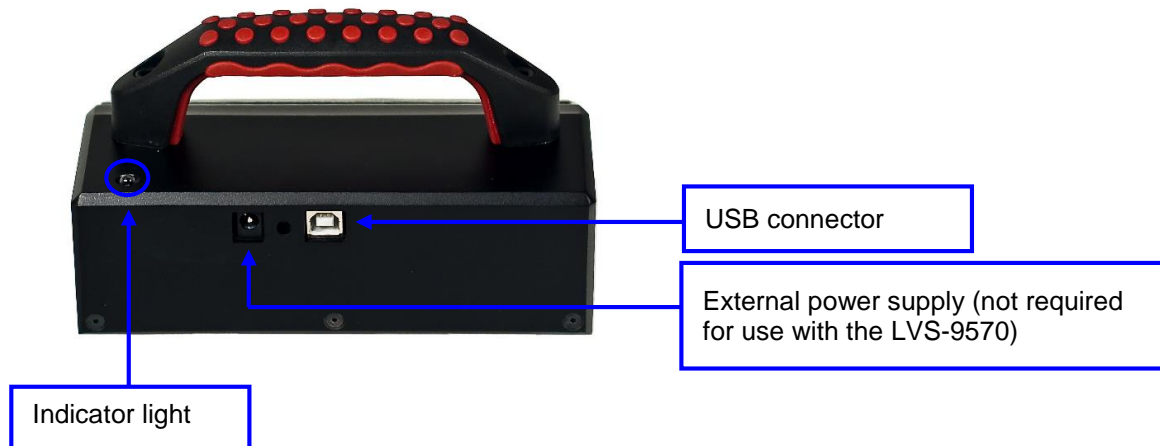
A 6-foot (1.8 m) USB cable is provided with each LVS-9570 system. Some users require a longer length USB cable, which is allowable when used with a powered USB hub. USB hubs are available for purchase at local Electronics stores.

Additional LVS-9570 hardware images are below.

### Front of System



### Back of System



## 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.

### PICKET FENCE ORIENTATION

The LVS-9570 has a scanning width of 5.4" (137.16 mm) for barcodes in a picket fence orientation

Scanning Direction



5.4" (137.16 mm)  
Scanning Width

### LADDER ORIENTATION

The LVS-9570 has a scanning length of 12.0" (305 mm) for barcodes in a ladder orientation

Scanning Direction

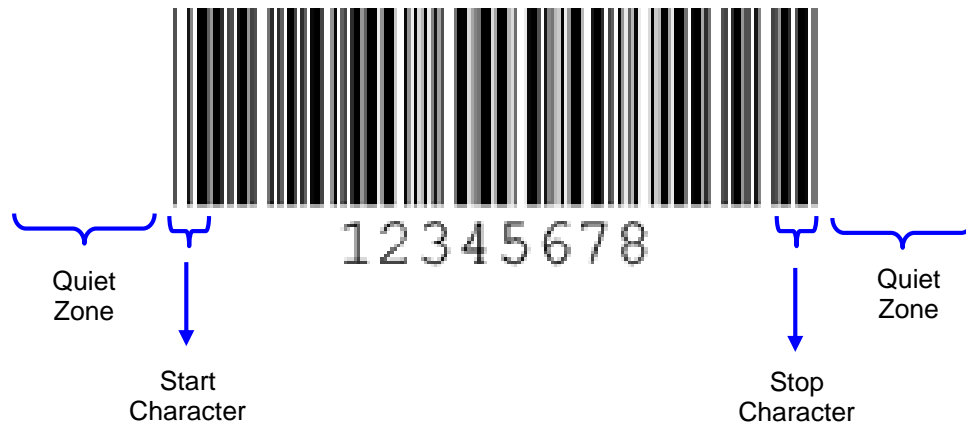


12.0" (305 mm)  
Scanning Length

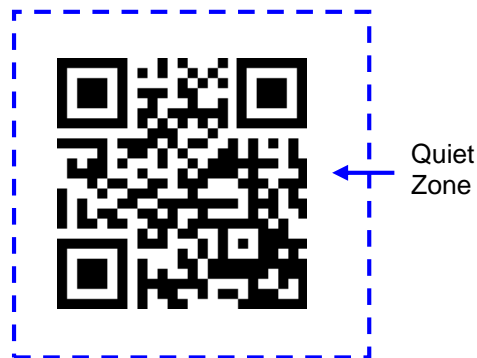
## Quiet Zone

The **Quiet 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



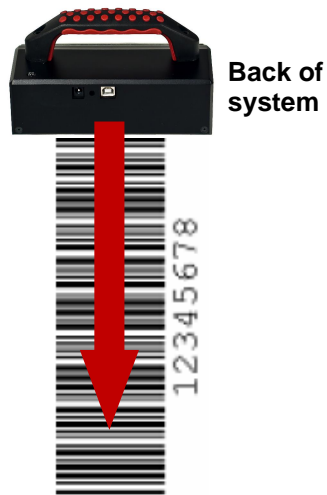
## Scanning Direction

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

“Pull” the LVS-9570 through a barcode label.



### ☐ INCORRECT

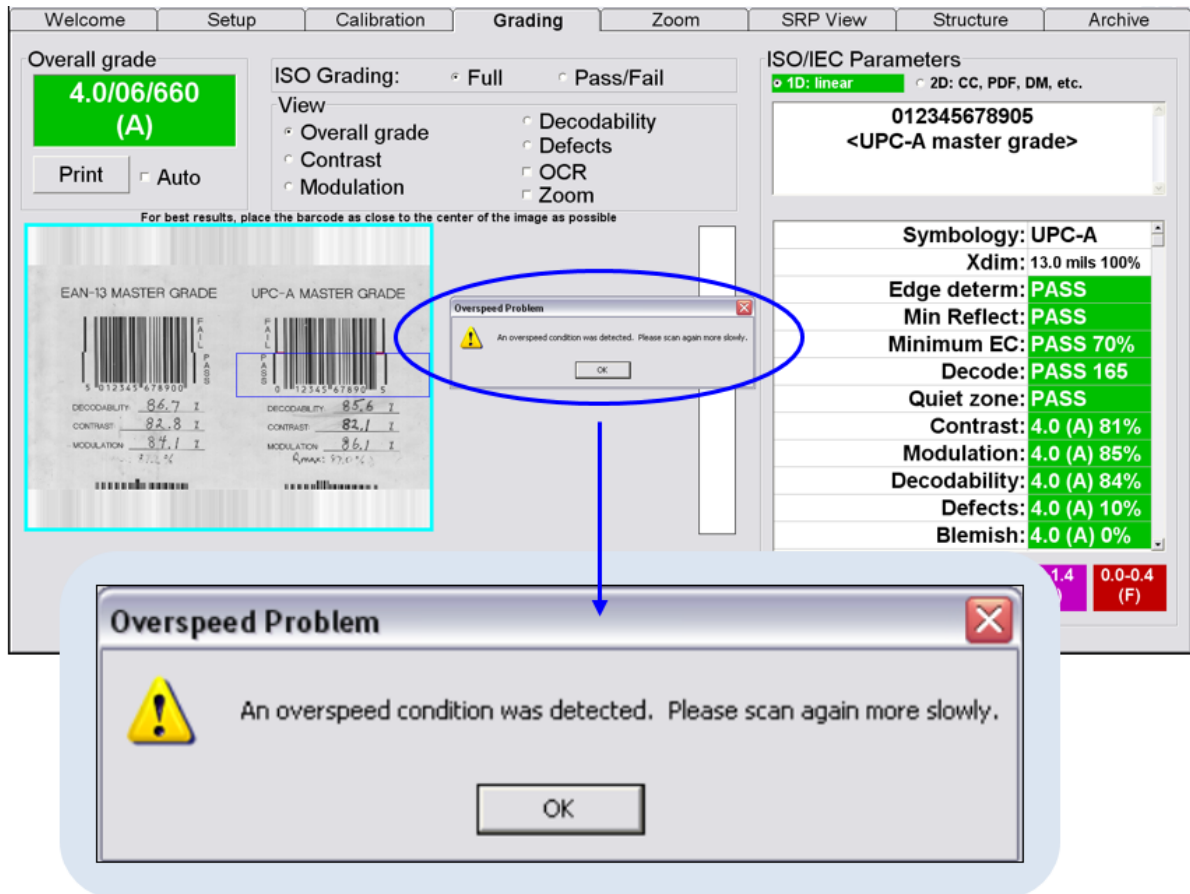
DO NOT “push” the LVS-9570 through a barcode label.





## 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

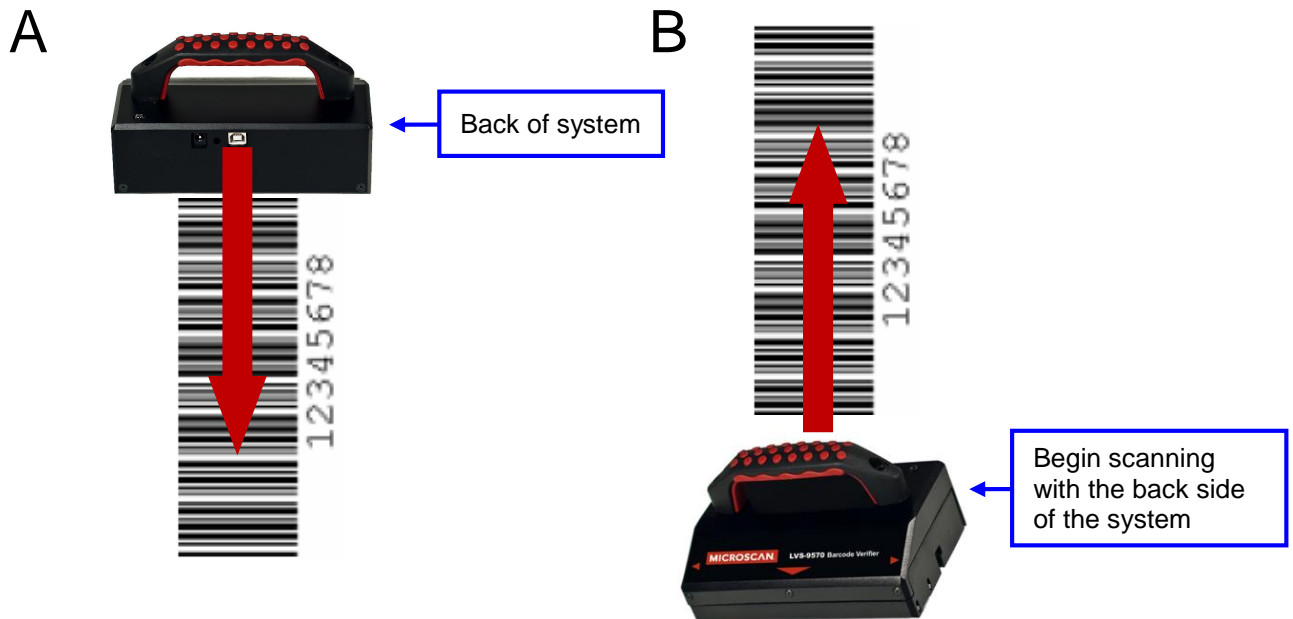
It is important to maintain a perpendicular orientation to the barcode image. Failure to do so may result in a distorted image. If the image displayed on the monitor appears distorted, scan the image again making sure the LVS-9570 is using a perpendicular orientation to the barcode and is pulled slowly. 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.



### 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.



## 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.

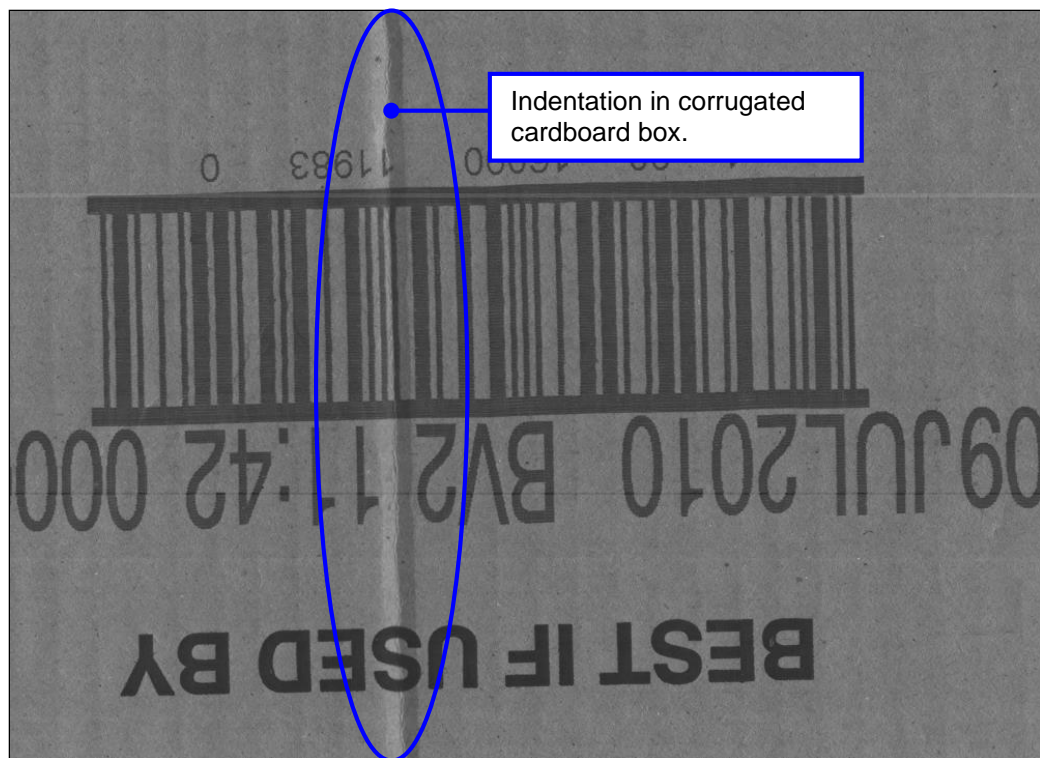
An image is collected only when the roller is rotating while the sensor passes over the image of the barcode and only if the user pulls down on the LVS-9570. The LVS-9570 will not read anything when pushed upwards through a barcode image.

### 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.



## ***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

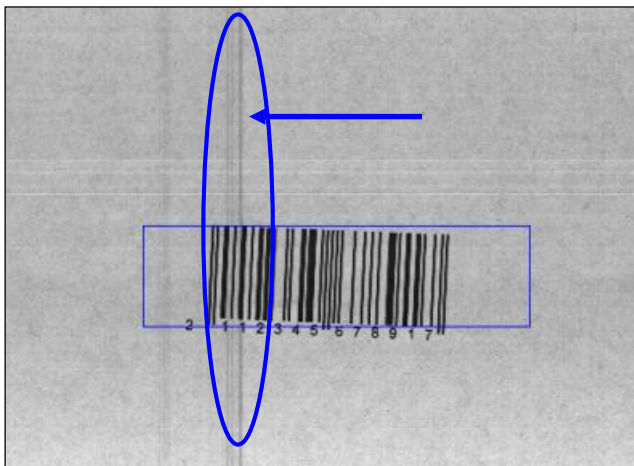
Dampen the cloth with the cleaning solution and wipe the window. Inspect the window closely, looking for any label debris that may get stuck on the window. Do not scrape the window with a sharp object as this may damage the window causing the system to not grade correctly.

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

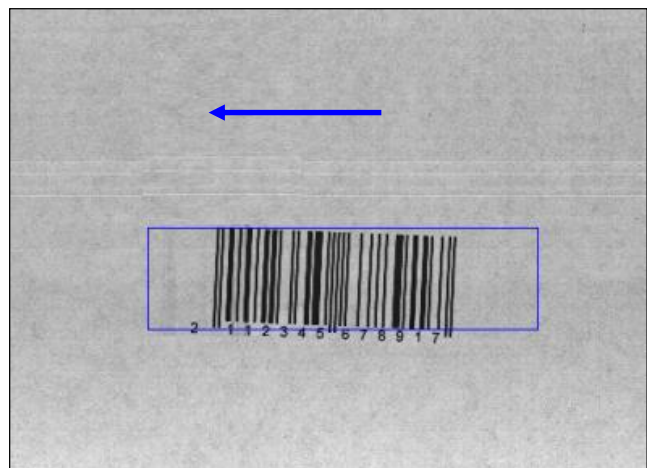
**IMPORTANT:**

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 Microscan (or your Microscan distributor) for sensor replacement. Contact your 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"               | <p>This guide documents steps on installing the LVS-95XX software.</p> <p>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.</p> |
| LVS-9570 video demonstration                                | <p>A live video demonstration of the LVS-9570.</p> <p>The video is located on the flash drive supplied with your system.</p>  |
| "LVS-95XX Series Barcode Quality Station Operations Manual" | <p>This comprehensive manual documents steps on operating the LVS-95XX software.</p> <p>The manual is located on the installation media supplied with your system.</p>  |



# 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® XP Professional or Windows® 7 (Windows® Vista is not supported)
- Intel® Core™ 2 Duo Processor (or equivalent)
- 2 GB RAM
- 800 x 600 Resolution
- One available USB 2.0 port

## Light Source

- Red Light
- 660 nm



## Inputs / Outputs

- USB 2.0 port

## Operating Temperature

- 10° C (50° F) to 30° C (86° F)

## Storage Temperature

- 0° C (32° F) to 40° C (104° 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.*

## Supported Symbolologies and Standards

Below are just a few of the Symbolologies and Standards supported by the LVS-9570. Contact Microscan for a full list of supported Symbolologies and Standards.

### Supported Symbolologies

- Aztec Code
- Composite Code CC-A
- Composite Code CC-B
- Composite Code CC-C
- Codabar
- Code 128
- Code 39
- Code 93
- DataBar expanded
- DataBar limited
- DataBar stacked
- DataBar-14
- EAN/JAN-13
- EAN/JAN-8
- ECC-200 (Data Matrix)
- GS1-128
- Hanxin Code
- Interleaved 2 of 5 (ITF)
- ITF-14
- Japan Post
- MaxiCode
- Micro QR Code
- MicroPDF417
- MSI Plessey
- PDF417
- Pharmacode – Italian
- Pharmacode – Laetus
- PPN (Pharmacy Product Number)
- QR Code
- UPC-A
- UPC-E
- USPS Intelligent Mail Barcode (4-State Barcode)

### Supported Standards

#### **ISO Conformance Standards:**

- ISO/IEC 15415:2004(E)
- ISO/IEC 15416:2000(E)
- ISO/IEC 15426-1:2000(E)
- ISO/IEC 15426-2:2004(E)
- All Supported ISO/IEC Symbology Specifications

#### **Application Standards:**

- AIAG / JAMA / JAPIA / ODETTE
- ALDI
- AS9132-A / AIM DPM Cat 0
- Automatic GS1 or ISO
- Chinese Sensible (Han Xin) Code
- DHL
- FPMAJ
- French CIP
- GS1 Data Matrix including NHRN
- GS1 General Specifications

- GS1 (NTIN)
- HDMA Guidelines
- HIBC
- IFAH
- ISO/IEC 15415/15416
- Italian Pharmacode
- Japanese Codabar
- Laetus Pharmacode
- MIL-STD-130
- Miniature Pharmacode
- Multi-rotation Data Matrix
- Multi-rotation QR Code
- Postal (USPS IMB/Code 128, PostNet, Japan Post)
- PPN Code
- PZN-big, normal, small (German Pharmacode)
- PZN8