

LVS[®] 95XX Series Software Installation Guide

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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 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

Security Measures

Anti-Virus Protection

Install the latest commercial-quality antivirus software on the computer connected to the control system and maintain to keep the software up to date.

Security Measures to Prevent Unauthorized Access

- Take the following measures to prevent unauthorized access to our products:
 - Install physical controls so that only authorized personnel can access control systems and equipment.
 - Reduce connections to control systems and equipment via networks to prevent access from untrusted devices.
 - Install firewalls to shut down unused communications ports and limit communications hosts and isolate control systems and equipment from the IT network.
 - Use a virtual private network (VPN) for remote access to control systems and equipment.
 - Adopt multifactor authentication to devices with remote access to control systems and equipment.
 - Set strong passwords and change them frequently.
 - Scan for viruses to ensure safety of USB drives or other external storage devices before connecting them to control systems and equipment.

Data Input and Output Protection

Validate backups and ranges to cope with unintentional modification of input/output data to control systems and equipment. Check the scope of data.

- Check validity of backups and prepare data for restore in case of falsification or abnormalities.
- Safety design, such as emergency shutdown and fail-soft operation in case of data tampering or abnormalities.

Data Recovery Back up and update data periodically to prepare for data loss.

When using an intranet environment through a global address, connecting to an unauthorized terminal such as a SCADA, HMI or to an unauthorized server may result in network security issues such as spoofing and tampering. You must take sufficient measures such as restricting access to the terminal, using a terminal equipped with a secure function,

and locking the installation area by yourself.

When constructing an intranet, communication failure may occur due to cable disconnection or the influence of unauthorized network equipment. Take adequate measures, such as restricting physical access to network devices, by such means as locking the installation area.

When using a device equipped with the SD Memory Card function, there is a security risk that a third party may acquire, alter, or replace the files and data in the removable media by removing or unmounting the removable media. Please take sufficient measures, such as restricting physical access to the controller or taking appropriate management measures for removable media, by means of locking the installation area, entrance management, etc.

Software

To prevent computer viruses, install antivirus software on the computer where you use this software. Make sure to keep the antivirus software updated.

Keep your computer's OS updated to avoid security risks caused by a vulnerability in the OS.

Always use the latest version of this software to add new features, increase operability, and enhance security. Manage usernames and passwords for this software carefully to protect them from unauthorized uses.

Set up a firewall (e.g., disabling unused communication ports, limiting communication hosts, etc.) on a network for a control system and devices to separate them from other IT networks.

Make sure to connect to the control system inside the firewall.

Use a virtual private network (VPN) for remote access to a control system and devices from this software.

Safety Instructions

The LVS-95XX system 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 main power lines connected.
- Ensure that the AC power source matches the ratings listed for the system. If unsure, check with your dealer or local utility provider.
- Do not place the AC power cord where it can be stepped on. If the AC power cord becomes damaged or frayed, replace it immediately.
- Avoid looking directly into any system lights. If you need to examine the lights, or look at any component near the lights, be sure to first turn off the lights. If the lights cannot be turned off, then wear polarized/UV blocking sunglasses while examining the lights.
- To avoid damaging the system, turn off and unplug the system before cleaning.
- If the system ever needs repair, consult Omron representative or your Omron distributor.

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Important – Read Prior to Installation

Please read the information below before installing the LVS-95XX system.

- The LVS-95XX system 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.
- 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 of Windows 10 and excludes all other editions.
- All LVS-95XX systems must use the calibration card and installation flash drive issued with the system. The LVS-95XX system, calibration card and installation flash drive use the same serial number and must be used in conjunction with each other to obtain correct calibration results. Failure to use the calibration card and installation flash drive issued with the system will result in incorrect calibration results.
- If a USB device fails to load automatically, manually load the USB device using Device Manager. Consult your Systems Administrator for assistance, if required.
- If using an LVS-9510:
 - Minute imperfections may be seen in the LVS-9510 glass. These imperfections are minor and caused by the anti-reflective coating process. The imperfections will not affect the operation of the LVS-9510.
 - Treat the LVS-9510 as laboratory equipment, meaning that extreme care and delicacy should be used when servicing the equipment.
 - Do not place the LVS-9510 near any machinery that vibrates. This external vibration may result in software constantly re-grading symbols within the field of view.
 - Routine cleaning of the viewing window is recommended weekly to maintain optimum performance. To maintain a clean and clear appearance, use a soft, lint-free, non-abrasive towel or cloth and clean only the outside of the viewing window. Use a commercially available household glass cleaner, such as Windex[®], Glassex[®], VISS[®], and Mr. Muscle[®]. Do not use an industrial-strength glass cleaner. Do not clean the inside of the viewing window due to an anti-reflective coating.
 - If you have any questions or concerns about the performance of this equipment, please call your local Omron Microscan distributor or Omron Microscan technical support.

System Manuals

All LVS-95XX system manuals are stored in the following locations:

Installation Flash	Each system purchase	is supplied with an installation flash drive containing	
Drive	installation software an	d system manuals.	
Host Computer	After successful installation of the LVS-95XX software, the system manuals are		
	located at the paths be	low:	
	Windows [®] 10:	C:\Program Files (x86)\Microscan\LVS-95XX\Manuals	

System manuals are also located on the installation flash drive. If you would like to view or print the manuals located on the installation flash drive prior to installing LVS-95XX software, follow the steps below.

Accessing documentation prior to installation

 If you are installing the software from the USB drive that came with your 95XX unit, insert the installation flash drive into the USB port. If you have downloaded the software distribution zip file from the web, extract the zip file to a convenient location on your hard drive. The file and folder structure of either the USB drive or the zip file will look similar to what's illustrated below. This may vary slightly from one release to another.

Name	Date modified	Туре	Size	
📙 Inno	8/5/2021 5:14 PM	File folder		
Manuals	8/5/2021 5:14 PM	File folder		
OtherSetup	8/5/2021 5:14 PM	File folder		
🔊 AutoRun.inf	8/5/2021 5:14 PM	Setup Information		1 KB
LVS-95XX Series Software Installation Guide - English.pdf	8/5/2021 5:14 PM	PDF Document	1,	367 KB
🗔 Setup.exe	8/5/2021 5:14 PM	Application		48 KB
StampBuild.txt	8/5/2021 5:14 PM	Text Document		1 KB
Updates.sql	8/5/2021 5:14 PM	SQL File		754 KB

2. Click on the "Manuals" folder to view and access documentation.

📙 🛃 🎑 = Manuals				
File Home Share View				
← → → ↑ 📜 > LVS-95xx softwa	are > LVS-9	95XX_4.4.3.3016 → Manuals		
	^	Name	Size	
🖈 Quick access		R		
Desktop	*	S Appendix B - LVS-95XX Understanding the Standards.pdf	311 KB	
Downloads		🧟 Appendix C - LVS-95XX Data Backup.pdf	507 KB	
	<u>^</u>	😰 Appendix E - LVS-95XX Layman's Guide.pdf	1,337 KB	
Documents	*	😰 Appendix F - LVS-95XX Data Sharing.pdf	217 KB	
🔚 Pictures	*	😰 Appendix G - LVS-95XX Special Features.pdf	7,519 KB	
Sid_Plotter	*	Appendix H - LVS-95XX Non-Exclusive License Agreement.pdf	166 KB	
Document Review Manuals		Appendix J - LVS-95XX Factory Calibration Not Found.pdf	845 KB	
Hours and Status Report		Appendix L - LVS-95XX Data Matrix Calibrated Conformance Standard Test Card.pdf	632 KB	
Pre-Release Notes Documents		LVS-95XX Series Barcode Quality Station Operations Manual - English - v4.4.3.pdf	10,697 KB	
TTP17136		😰 LVS-95XX Series Software Installation Guide - English.pdf	1,367 KB	
		🙎 LVS-9510 Operating Instructions - English.pdf	894 KB	
🗦 Dropbox		LVS-9570 Operating Instructions - English.pdf	2,579 KB	
OneDrive - OMRON		LVS-9580-LVS-9585 Operating Instructions - English.pdf	4,374 KB	

The LVS-95XX Series Barcode Quality Station Operations Manual-English gives an overall view of all features and functions available. Other Manuals listed contain specific instructions for Software Installation, Operating Instructions, Barcode Quality information, and other available Features.

Installation Checklist

Please ensure you have the required items listed below before installing the LVS-95XX system. Contact your Omron Microscan sales representative if any items are missing.

- LVS-95XX system
- USB cable
- EAN/UPC NIST traceable Calibrated Conformance Standard Test Card used for calibrating the LVS-95XX system (1.75" FOV, 3.0" FOV, 4.0" FOV, 4.5" FOV)
- GS1-128 NIST traceable Calibrated Conformance Standard Test Card used for calibrating the LVS-9510-6.250" FOV.
- ISO/IEC Data Matrix NIST traceable Conformance Calibration Standard Test Card used for calibrating the LVS-958x-DPM-HD system.
- Installation flash drive (includes LVS-95XX software and the core LVS-95XX documentation set.)
- "LVS-95XX Series Software Installation Guide" (this document)

IMPORTANT: All LVS-95XX systems must use the calibration card and installation flash drive issued with the system. The LVS-95XX system, calibration card and installation flash drive use the same serial number and must be used in conjunction with each other to obtain correct calibration results. Failure to use the calibration card and installation flash drive issued with the system will result in incorrect calibration results.

Installation Steps – Read Prior to Installation

This section documents the software installation steps for Windows® 10

Before installing the LVS-95XX software, ensure that no USB cables are plugged into the LVS-95XX USB ports. You are directed at a particular step in this guide when to plug in the USB cable.

Windows[®] 10 Installation Steps

Follow the steps below to install the LVS-95XX software on a Windows[®] 10 operating system.

 If you are installing the software from the USB drive that came with your 95XX unit, insert the installation flash drive into the USB port. If you have downloaded the software distribution zip file from the web, extract the zip file to a convenient location on your hard drive. Double-click the "Setup.exe" file to begin the LVS-95XX software installation process.



A note about Windows Security: A Windows 10 computer may display a popup message indicating the software being installed is not a Microsoft-verified app. The LVS-95XX software is not available in the Windows Store. If this message appears, it will be necessary to configure Windows to allow software installations from anywhere. To do this open Settings from the Windows desktop, go to Apps and in the 'Choose where to get apps' section, select Anywhere.

2. The following screen appears indicating that the LVS-95XX software is installing.



3. When the software installation is complete, the following screen appears. Click "OK".



NOTE: When software installation is complete, the latest LVS-95XX Manuals and Frequently asked Questions ICONS are automatically installed onto the desktop.



4. Using the supplied USB cable, insert one end of the USB cable into the computer's USB port. Insert the other end of the USB cable into the USB port on the LVS-95XX verifier.

IMPORTANT: The LVS-9570 must connect to a dedicated USB port on the computer; the LVS- 9570 cannot connect to an external USB Hub unless the Hub is externally powered. Failure to comply with these rules results in abnormal contrast readings.

Note: A green light on the back of the LVS-9570 turns on after LVS-95XX software is installed.

- 5. Remove the installation flash drive from the USB port.
- 6. During the LVS-95XX installation process, an Icon was placed onto the Desktop.



Double-click on this Icon. The LVS-95XX software will launch.

7. The "Welcome" screen automatically appears if the software loaded correctly. If the software does not launch correctly, contact your local Omron Microscan Distributor or Omron Microscan Technical Support.



8. 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."

Welcome	Setup	Calibration	Grading	Zoom	SRP View	Structure	Archive
		🞝. Login			×		
		Operato	or ID:				
		Passv	vord:				
		Refere (optiona	ence:				
		ОК		Ca	ancel		

9. In the "Camera" section, select the desired camera. Your screen may look differently depending on which cameras are being used.

UVS-95xx ISO/IEC Static Verifier 4.4	4.3.3016 OperatorID:admin	App:ISO/IEC 15415/15416					- 6
Welcome	Setup	Calibration	Grading	Zoom	SRP View	Structure	Archive
Camera		Grading mode Automatic Manual Auto-sector		Current information Local Time: GMT: Time Zone:	10-Jun-2021 1 10-Jun-2021 1 GMT -4	11:23 15:23	
Application	standards			System Settings			
ISO/IEC 154	15/15416		•	Minimum passing s	core	1.5	• •
Change grad	e to E if Xdim or symbo	l height is outside limits		Days before passwork	d expires	n/a	• •
Change grade	e to P il Adim of Symbo	ineight is outside innits	_	Minutes before auto le	ogoff	n/a	• •
(Configure ava	ailable standards		□ Days before calibration	on needed	n/a	• •
□ Overric	de aperture atures			Allow non-ISO blems QRCode quiet zone > Allow Automatically start pr Lock language when	n to anect grade 1X rogram decoding	- Mei	tric Off On
List of o Single sect	ptions (choos tor verification (no	se one): rmal)	V	Reference:		Additional refere	nce:
	Optional Fea	tures Activation		Company name on repo Omron Microscan Syste	orts: ems, Inc.		
	Change	password		Setup operators	Product looku	IP Dis info	tributor rmation

- 10. Installation is complete. The system you are using must now be calibrated. Read the information below for next steps.
 - LVS-9570 Systems: Calibration steps are outlined in the following documents:
 - LVS-9570 Operating Instructions (see "LVS-95XX Software Steps" section). This manual is located on the installation flash drive supplied with your LVS-9570 system.
 - LVS-95XX Series Barcode Quality Station Operations Manual (see "Calibration Tab" section). This manual is located on the installation flash drive supplied with your LVS-9570 system.
 - LVS-9580 and LVS-9585 Systems: Calibration steps are outlined in the following guides:
 - LVS-9580/LVS-9585 Operating Instructions (see "LVS-95XX Software Steps" section). This manual is located on the installation flash drive supplied with your LVS-9580 or LVS-9585 system.
 - LVS-95XX Series Barcode Quality Station Operations Manual (see "Calibration Tab" section). This manual is located on the installation flash drive supplied with your LVS-9580 or LVS-9585 system.
 - LVS-9510 Systems: Calibration steps are outlined in the LVS-95XX Series Barcode Quality Station Operations Manual (see "Calibration Tab" section). This manual is located on the installation flash drive supplied with your LVS-9510 system.