PRODUCT NEWS



No: 002 Product: LVS-95XX

Date: updated August 22, 2019 Type: Software Update

LVS-95XX Software 4.4.1.4002 – Release Notes

Summary:

LVS-95XX Software, Omron Microscan's proprietary 1D and 2D symbol verification software for use with all LVS-95XX products, provides an intuitive way to verify virtually any symbology to a wide variety of standards. LVS-95XX Software supports Windows® 7 Professional and Windows® 10 Pro.

Version 4.4.1.4002 was built on 03 May, 2019.



Feature	Description	Benefits
Issue resolution	Specific issues related to non-US locals and GS1 codes	 Works more reliably when using non-US locale settings. More accurately reports GS1 code grades

Specifications and prices in this product news are as of the issue date and are subject to change without notice. Only main changes in specifications are described in this document. Please be sure to read the relevant catalogs, datasheets, product specifications, instructions, and manuals for precautions and necessary information when using products.

Note: It is recommended to first uninstall previous versions of LVS-95XX Software before installing version 4.4.1.4002. If installing on a new PC then the database file (.mdb) must be copied from the existing PC to the new PC LVS-95xx program folder – see the user manuals for further information.

Please see the following pages for more detail about updates and improvements. A complete software version history is available from the archive tab of LVS-95XX software.

New Features, Updates, and Improvements

This new version of LVS-95XX Software includes several improvements and additions to functionality.

Planned Updates:

None

Improvements and Fixes:

- Non-US regional settings
- GS1 QR code grading

Known Issues

The following known caveats will be fixed in a future release of the 95XX software:

- When grading QR codes using a DPM application standard, MeanLight and MeanDark measurements are reported as Rmin and Rmax.
- Decoded Chinese characters do not render correctly in reports.
- Some graded parameters do not transfer correctly to custom reports.
- MIL STD 130 structural errors reported incorrectly for PDT and REM.
- Calibration events are recorded separately from the audit trail.

LVS-95XX Software Version History

A summary of important software changes from January 2016 through April 2019 is shown below. This version history is limited to software builds that were distributed to customers and partners. A complete software version history is available from the archive tab of LVS-95XX Software. That version history includes all software build numbers. In most cases, the versions listed in this document will include updates from multiple different builds.

Version	Release Date	Changes
4.4.1.4002		 Fixed issue with non-US decimal & thousands separators Improved analysis of GS1 QR codes
T.T.1.4002 Iviay 03, 2019		 GS1 2019 General Specification updates, including new Application Identifiers. Micro QR code decoding errors corrected QR Code 2D Analysis reporting improved when using DPM TR-29158 as application standard Grid Nonuniformity round-off fixed Axial Nonuniformity round-off fixed MySQL memory handling improved when selecting all reports OCR tip presentation for non-English languages enhanced "Type mismatch error" during calibration caused by regional settings fixed
4.4.1.3013	Not released	 Data archives when analyzing composite codes fixed – both 1D and 2D data is saved Shortcut keys to change form tabs run-time error fixed Reference Data Export using SQL Grading Data Matrix with DPM TR-29158 fixed issue with embedded <gs> character</gs> Text wrapping when printing multi-sector report Verification reports include Pass/Fail indication based on minimum passing score External trigger (CTRL+SHIFT) Aperture setting for non-GS1 Data Matrix codes Quiet zone reporting in 2D analysis screen Transition Ratio measurement color coding (clarifies FPD grading, helping to understand grading of Data Matrix codes created using dots) 1 decimal place display of data in calibration screen Both 1D and 2D parameters included in export reference report when appropriate "Machine not authorized" error message GS1 Stacked Databar analysis no longer reports missing <fnc1> when <fnc1> is implied</fnc1></fnc1> Rounding when grading Symbol Contrast for Data Matrix improved Stitching function automatically turns on camera as appropriate 2D analysis of reflectance values on Analysis Screen exclude 20Z white space analysis

		Full and compact Aztec codes grading and reading
		 Data Matrix structure analysis error that caused dropped characters from reported data fixed
		 MicroPDF codes read if only one of either the stop or start pattern is valid
		 Xdim and Symbol Height warning flag (on Setup tab) configurable for all application standards
		 Ability to delete an old report on the Archive screen restricted to users who have "Allow change archive file" permission
		 Software installation guide and Readme.txt added to root of LVS- 95XX software download
		 Auto-logoff inhibited if user is grading symbols but not using mouse
		 Warnings about minimum X dimensions when near the specification limits
		 Accuracy of aperture size reporting for Data Matrix codes
		 Inverted PDF417 and MicroPDF417 reading
		 Data Matrix and DPM symbol reading
		 9510 1.75" field of view
		 Erroneous non-printable characters included in barcode data
		 Updated contact reference when using Japanese language
		Czech language
		Hungarian language
		"Suomi-Svenska" removed from the translation table
		Default directory cleanup after installation
4.4.0.5101	Jun 27, 2018	Update data identifier database to avoid incorrect structure errors
4.4.0.4106	Jun 27, 2018	 Update to Japanese translation file
4.4.0.4105	May 30, 2018	 Increase camera watchdog timeout to avoid unnecessary camera reset
		 Fix type mismatch error during calibration when goals don't match regional settings
4 4 0 4400	May 40, 0040	Fix communications issue with 9580s
4.4.0.4102	May 18, 2018 May 17, 2018	 Improved ability to communicate with and upgrade older 9570 units Fixed regional setting conflict with SQL
4.4.0.4101	IVIAY 11, 2010	 Fixed regional setting conflict with SQL Updated PCB software to support 7.5MHz crystals
		Added missing FAQ files
		Improved French translations
4 4 0 2000	Apr 30, 2018	Fixed translation issue when displaying "GS1" Add dynamic bound rate adjustment for 0570 units
4.4.0.3009	Api 30, 2016	 Add dynamic baud rate adjustment for 9570 units Show correct mils on calibrate screen for 1.3" FOV
		Add word break option to avoid truncated display of decoded text
		Fix problem displaying (9580HD) when applicable
		Fix signing conflict with new Atmel 1.2.6 driver Record minimum passing grade when pass/fail entire used.
		 Record minimum passing grade when pass/fail option used Fix dome light correction for 1.3" FOV
		Fix incorrect Invalid AI warning
		Show (9580HD) on setup screen if applicable

		 Solve issue with synthetic aperture aligning with 6 mil aperture on 1.3" FOV
		Fix issue with Al calibration cardAdd new Al 22
		 Change report label from GS1 Pass/Fail to be GS1 Data Structure Pass/Fail
		 Change Symbol ANSI X3.182 Letter Grade scaling Fix 9585-HD calibration issue
		Fix incorrect Extraneous FNC1 warning
		Allow 9585 HD white balance calibration without factory override
		Check HIBC dates for validity
		 Correct 9585 HD dome light correlation
		 Enable pulldown for FPMAJ so height warnings can be made optional
		Fix bug in trapezoidal correction logic which would occasionally cause a crash
		 Improve logic for for non-breakable spaces in HTML reports
		Recompute Data Matrix error correction codewords when
		correcting pseudo-random padding errors
		Show (9585HD) if camera model is 9585HD
		Update manuals
		Attempt to mitigate issues with serial number zero Fix issue with Ctrl + Shift trigger time sout.
		Fix issue with Ctrl + Shift trigger timeout Pamerya problematic translation file 040P dat
		Remove problematic translation file 040B.datUpdate Atmel drivers to 1.2.6
		 Update for modified LVS-9570 driver PCB
		Record minimum passing grade when pass/fail option used
		Fix incorrect Invalid AI warning shown after <gs>.</gs>
		Change report label from GS1 Pass/Fail to be GS1 Data Structure
		Pass/Fail Pass/Fail
		 Fix incorrect Extraneous FNC1 warning
		Fix issue with Ctrl + Shift trigger timeout
		Restore ability for LVS-9570 to use automatic sector
		 Allow either <gs> or <232> as separators in GS1 Data Matrix codes</gs>
		Update max Xdim for Table 6 GS1 Data Matrix (per Gen Spec 18)
		Add 2018 GS1 Gen Spec Als; 714, 8013. New Al for NHRN Portugal and New GS1 identification leave Global Model Newshore
		Portugal and New GS1 identification key: Global Model Number (GMN)
		 Resolve Run Time error when connecting to an existing MS SQL database
		Add new standards for non-DPM versions of Mil-130
4.0.0.0000	00 N 0047	Allow 9510 factory calibration via phone support
4.3.0.3006	08-Nov-2017	Updated to comply with ISO 15416:2016 Updated for all and a COA Constant Specification v47, dated 4.
		 Updated for changes to GS1 General Specification v17, dated 1 July 2017
		Allow user to disable decimal grading without using password of
		the day.
		 Default setting that provides decimal grading as default for grading
		parameters.
		Improvements to DPM grading
		Streamlined software installation process, with fewer driver
		installation steps.

		 Removed support for Lumenera cameras used in LVS-9570 serial # 14139 and lower (Dec. 2013 and earlier), LVS-9500, LVS-9505, and LVS-9510 serial # 12906 and lower (June 2012 and earlier). Added Traditional Chinese language (Taiwan) and character set.
4.3.0.3003	20-Oct-2017	 Extend maximum length of Als 91 through 99 to be 90 characters.
4004004	40.0 4.004	Include decimal for Rmin, Rmax, and GT.
4.3.0.1001	18-Oct-2017	Implement ISO/IEC 15416:2016(E)interpolation rule
4.2.0.3021	16-Sep-2017	 Automatically detect and draw blue sector box around symbol in DPM mod.
4.2.0.3019	08-Sep-2017	 Implement ability to read QR Codes when set for DPM.
4.2.0.3016	23-Aug-2017	 Fix HIBC error when code switch occurs inside \$\$+7 format. Update Japanese Translation File.
4.2.0.3003	06-Jul-2017	 Fix error in PZN check digit calculation for 2D symbols. Implement new clock track tracking algorithm for DPM. Show additional lighting information. Drop support of Lumenera cameras. Implement more sophisticated event handler. Improve build info displayed when double-clicking version. Include changes from GS1 General Specifications V17. Show HIBC structure if DPM and first character is a '+'. Support Taiwan language and character set. Upgrade to Visual Studio 2015 runtime. Use dfu-programmer instead of Atmel Flip. Use Inno Setup instead of InstallShield.
4.1.0j	23-Jan-2017	 Fix overly bright images when upgrading which only affects certain LVS-9580s.
4.1.0i	13-Jan-2017	 Fix bug related to blank passwords and ActiveDirectory. Remove logic to detect contrast label during calibration, as it is unreliable. Update Polish translation file.
4.1.0h	10-Jan-2017	Fix exposure decimal places.
4.1.0g	27-Dec-2016	 Accept GS1-128 calibration card. Avoid overflow error while minimized. Avoid overly bright images when upgrading from older versions. Fix problem with calibration with bright images. Fix symbology errors on tables 7.2, 7.3, and 7.4. Improve system responsiveness during focus calibration.
4.1.0f	07-Nov-2016	 Fix calibration not being reloaded when shortcut key used to change application standard. Update 0410 Italian translation.
4.1.0e	04-Nov-2016	 Don't report 'D' for dome lighting on non-LVS-9580 systems. Eliminate image jumping once image is stable. Fix problem with reference reports and SQL Server. Fix update problem with MySQL. Reload calibration when changing application standards. Update manuals.
4.1.0d	20-Oct-2016	 Don't allow Data Matrix when set for MIL-STD-130N Linear (1D). Fix stitching with LVS-9510/ LVS-9580/ LVS-9585. Update CompactLvsDB to include Microscan in search.
4.1.0c	18-Oct-2016	 Fix comma vs. period for GS1SpecificationTables. Fix MicroPDF vs. Interleaved 2 of 5 misread.

		Record structure information in database so it can be recalled and reprinted. To the search OR Control to a CRM.
4 4 01	11.0 10010	Try to read QR Code when set for DPM.
4.1.0b	11-Oct-2016	Grade tilted DPM but issue warning if applicable.Implement non-integral exposure.
4.1.0a	05-Oct-2016	 Avoid error when review report earlier than the latest report. Don't accept Defects symbol in calibration mode. Fix calibration not working in Manual grading mode. Plot Micro QRCode format cells properly. Show LVS-9585 as a choice on optional features. Show green crosshair on LVS-9580 while moving. Show yellow border while trigger is held.
4.1.0	27-Sep-2016	 Fix problems when interrupting processing. Fix problems when switching cameras. Instead of beeping, delay operations where possible.
4.0.0n	23-Sep-2016	Implement GS1 Table 7.
4.0.0m	19-Sep-2016	 Finish DPM2 implementation. Fix HIBC link character. Implement new background/multithread model for slower operations. Remember AutoPrint setting and don't reset when changing tabs.
4.0.0L	02-Sep-2016	Placeholder for unreleased version.
4.0.0k	26-Aug-2016	 Changes to Speedup creation of users from Active Directory. Fix HIBC issue - Unrecognized data identifier.
4.0.0j	07-Jun-2016	 Fixed issue with SQL dB, file access error 75 for Windows users without admin rights.
4.0.0h	25-Apr-2016	 Add 2D symbologies to GS1 table 4. Add 2D symbologies to GS1 table 7. Added AI (394) Percentage discount of a coupon. Added AI (8012) Software version. Added AI (8111) Loyalty points of a coupon. Change GS1-128 Table 11 aperture to 5. Clean up and sort translation files. Fix Active Directory bug when there are no users in the LVS All Users group. Fix problem misidentifying older LVS-9580 units. Fixed incorrect error about missing leader bars in Data Matrix codes. Fixed missing AI (30) in AI report. Remove obsolete manuals. Try more persistently to read UPC/EAN codes with a wrong check digit. Use data identifiers for MIL-STD-130N.
4.0.0g	10-Mar-2016	 Fix ConfirmEngineType to catch Microsoft SQL 2014. Fix MySQL MaxValue is reserved keyword; add delimiters when engine type is MySQL. Fix SQL Stmt. error in ActiveDirectoryIntegration. Use UPPER for MySQL and MSSQL. Fix error in ExportReferenceCommand by using MSSQL Database. Improve Microscan logo.
	10-Mar-2016	

		 Restore internal designations of Atmel-based LVS-9570 units. Revert translation files pending redesign.
4.0.0f	04-Feb-2016	Bump revision letter.
4.0.0e	02-Feb-2016	 Include proper Als in report for composite symbols. Include separate structure reports for 1D and 2D if applicable. Preserve ActiveDirectory settings when copying database.
4.0.0d	27-Jan-2016	 Change default exposure for LVS-9580 from 40 to 70 ms. Support new red/white lighting for LVS-9580 camera.
4.0.0c	24-Jan-2016	 Add ActiveDirectory Log file and form setting to enable. Add progress bar when creating operators from Active Directory. Correct bug in Active Directory CreateUsersFromAD. Fix HTML characters in "Manufactured By" field. Rename old registry values.
4.0.0b	18-Jan-2016	 Add ActiveDirectory Log file and form setting to enable. Add progress bar with creating operators from Active Directory. Correct bug in Active Directory CreateUsersFromAD. Correct bug in new Data Matrix locator algorithm.
4.0.0a	13-Jan-2016	Improve Data Matrix locator algorithm.
4.0.0	06-Jan-2016	 Rebrand as Microscan. Set modulation to 0 for scan lines which fail edge determination.