INTEGRA 9510

INFORMATION BOOKLET

LVS®

Label Vision Systems, Inc.

THE LEADING PROVIDER OF PRINT QUALITY INSPECTION SYSTEMS

LVS® IS AN ISO 9001:2008 REGISTERED COMPANY

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>
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> - The information in this guide is for informational purposes only. It is not intended for use as an Operations Manual.

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FEATURES

The INTEGRA 9510 is for offline verification of bar codes to ISO/IEC standards. The INTEGRA 9510 is unique in the world of ISO verification due to its ease of use and ability to verify linear and two-dimensional (2D) codes without any change of equipment; autodiscriminate the symbology, narrow bar width and aperature to be used to evaluate the code; and highlight trouble spots in the code. Additional outstanding features include:

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

- The INTEGRA 9510 inspects all nine of the ISO (ANSI) parameters, plus added features of determining blemishes, opacity, and human readable validation. The INTEGRA 9510 also verifies 2D codes and reports all parameters as specified in the applicable symbology specification.

- Analysis is color coded to show exactly where the problem is located within the bar code, and sections of the bar code can be analyzed to determine how to solve the problem. Reference to an online Help screen helps aid in the analysis.

- High-resolution inspection of the bar code is possible due to the use of a 5.0 megapixel high resolution camera, which allows reading and analyzing every two thousandth of an inch (.002"/.05 mm) of the bar code height; this exceeds the minimum ten-scan average required by ISO.

- Camera technology allows more detailed analysis of the bar code, and makes reading of small and truncated codes possible, accurate and easy.

- Multiple codes, including any combination of Linear, Matrix (such as Data Matrix, QR Code and Aztec Code) and Stacked Linear (such as PDF 417, Micro PDF and Composite Codes) can be verified on one label within the field of view.

- Accuracy and repeatability are paramount in bar code verification. The INTEGRA 9510 is the most accurate verifier on the market today with the highest degree of repeatability. The operator is not involved in the scanning process. No wand to hold or move, no angle to maintain, and no buttons to push that can affect the overall grade results.

- The INTEGRA 9510 is the most reliable system on the market. There are no moving parts to wear out and no laser diode to burn out.

- The INTEGRA 9510 is designed to ISO grade bar codes on various label sizes and finished products with flat or rounded sides.

- The INTEGRA 9510 is supplied with a NIST traceable conformance standard test card provided by GS1 to ensure that it is always within a known calibration standard.

INSTALLATION

Installation of the INTEGRA 9510 is easy! Simply install the INTEGRA 9510 software (located on the Installation CD) on a customer-supplied computer. The onscreen instructions guide you through each step of the software installation process. Next, connect a USB cable (included with purchase) from the INTEGRA 9510 to the customer-supplied computer. An onscreen Hardware Wizard appears, guiding you through each hardware installation step. You are also provided with the "INTEGRA 95XX Series Software Installation Guide" ensuring the installation process is as simple as possible.

CONFIGURATIONS

The INTEGRA 9510 is available with a 5.0 megapixel (MP) camera with four available fields of view.

MINIMUM X DIMENSION (NOMINAL)		FIELD OF VIEW (APPROXIMATE)	CALIBRATION CARD	PART NUMBER
1D	2D			
4.0 mils (0.10 mm)	5.9 mils (0.15 mm)	3 inches (76 mm)	EAN/UPC Part #: CAL002	9510-5-3.0
6.0 mils (0.15 mm)	9.0 mils (0.23 mm)	4.0 inches (102 mm)	EAN/UPC Part #: CAL002	9510-5-4.0
7.0 mils (0.18 mm)	9.8 mils (0.25 mm)	4.5 inches (114 mm)	EAN/UPC Part #: CAL002	9510-5-4.5
9.4 mils (0.24 mm)	13.1 mils (0.33 mm)	6.250 Inches (159 mm)	GS1-128 Part #: CAL003	9510-5-6.250

ITEMS INCLUDED WITH PURCHASE

The following items are included with your INTEGRA 9510 purchase:

- Power Cord (for North America shipments only)
- Power Supply (requires localized power cord for shipments outside North America)
- USB Cable
- Top Cover (stabilizes labels on the viewing window)
- Installation CD (includes INTEGRA 9510 software and "INTEGRA 95XX Series Bar Code Quality Station Operations Manual")
- INTEGRA 95XX Series Software Installation Guide
- NIST traceable Calibrated Conformance Test Card (test card) used for calibrating the INTEGRA 9510. The test card is provided by GS1 to ensure the INTEGRA 9510 is always within a known calibration standard. The type of test card received is based on the selected field of view. Test cards include EAN/UPC and GS1-128.

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ENGINEERING SPECIFICATIONS

Physical Properties

- Depth = 9.062 inches (230 mm)
- Width = 11.125 inches (282 mm)
- Height = 10.5 inches (266.7 mm)
- Viewing Window = 5 inches x 7 inches (127 mm x 177.79 mm)
- Weight:
  - Unpackaged weight (standalone INTEGRA 9510 unit) = 6 pounds (2.72 kg)
  - Shipping weight (includes all items packaged in shipping box, such as power supply, cables, manuals, etc.) = 13 pounds (5.89 kg)

Viewing Window

Top Cover

- 5.5 inches x 7.5 inches (139.7 mm x 190.5 mm)
- Weight = 5.5 oz (162.65 grams)

Video Camera

- Monochrome
- 5.0 megapixel

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 *(additional ports required for each Auxiliary Readhead in use)*

IMPORTANT: The customer-supplied computer connecting to the Auxiliary Readhead must be running INTEGRA 95XX software version 3.0.8 or higher.

Light Source

- White Light. Red (660 nm) filter. Optional clear window available for purchase.

Inputs / Outputs

- USB 2.0 port
- Power Supply 12 vdc @ 2.5 amps (minimum)

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 *(one of the following:)*

- EAN/UPC Calibrated Conformance Test Card (LVS® part # CAL002)
- GS1-128 Calibrated Conformance Test Card (LVS® part # CAL003)

Specifications subject to change without notice.

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AUXILIARY READHEAD

Auxiliary Readheads are used as an alternate reading device for grading barcodes of different sizes that require a different field of view and minimum X dimension or cell size than the main INTEGRA Barcode Verifier.

The Auxiliary Readhead connects to the INTEGRA 9510 and a customer-supplied computer installed with INTEGRA 9510 software via a USB cable. Simply place a bar code on the viewing stage and the results are displayed on the computer screen. The Auxiliary Readhead is designed to comply with ISO/IEC Standards.

IMPORTANT: The customer-supplied computer connecting to the Auxiliary Readhead must be running INTEGRA 95XX software version 3.0.8 or higher.

CONFIGURATIONS

The Auxiliary Readhead is offered with a 5.0 MP camera with four available fields of view.

MINIMUM X DIMENSION (NOMINAL)		FIELD OF VIEW (APPROXIMATE)	CALIBRATION CARD	PART NUMBER
1D	2D			
4.0 mils (0.10 mm)	5.9 mils (0.15 mm)	3 inches (76 mm)	EAN/UPC Part #: CAL002	9510A-5-3.0
6.0 mils (0.15 mm)	9.0 mils (0.23 mm)	4.0 inches (102 mm)	EAN/UPC Part #: CAL002	9510A-5-4.0
7.0 mils (0.18 mm)	9.8 mils (0.25 mm)	4.5 inches (114 mm)	EAN/UPC Part #: CAL002	9510A-5-4.5
9.4 mils (0.24 mm)	13.1 mils (0.33 mm)	6.250 Inches (159 mm)	GS1-128 Part #: CAL003	9510A-5-6.250

ITEMS INCLUDED WITH PURCHASE

- Power Cord (for North America shipments only)
- Power Supply (requires localized power cord for shipments outside North America)
- USB Cable
- INTEGRA 95XX Series Software Installation Guide (includes Auxiliary Readhead installation steps)
- Calibrated Conformance Test Card (test card) used for calibrating the Auxiliary Readhead. Note that the type of test card received is based on the selected field of view. Test cards include Data Matrix (2D), EAN/UPC, GS1-128 and GS1 DataBar (formally called RSS). The test card used to calibrate the Auxiliary Reader may be different than the test card used to calibrate the INTEGRA 9510 unit.

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SUPPORTED SYMBOLOGIES

The INTEGRA 9510 supports the following symbologies:

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

SUPPORTED STANDARDS

The INTEGRA 9510 supports the following 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)

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

APPLICATION STANDARDS:
Below are just a few Application Standards supported by the INTEGRA 9510:

AIAG/DAMA/JAPIA/Odette
ALDI
AS9132-A /AIM DPM Cat 0
DHL
GS1 General Specifications
IFAH
Italian Pharmacode
Japan Codabar
Laetus Miniature Pharmacode
Laetus Pharmacode
Laetus Standard
MIL-STD-130M
PZN (big, normal, small)

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SOFTWARE OVERVIEW

The INTEGRA 9510 software is comprised of tabs located across the top of the screen, each designed to perform a specific function. Refer to the following sections for more information on each tab.
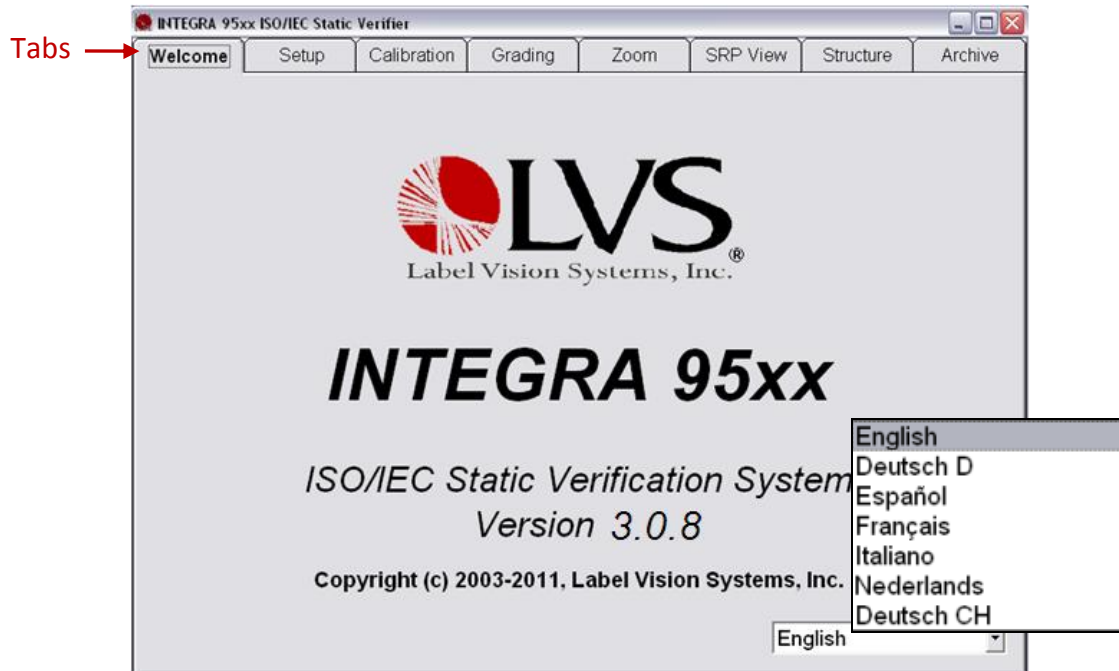
WELCOME TAB

The **Welcome** tab is the first tab to appear when logging onto the INTEGRA 9510. This tab provides the version number and allows the user to select the desired software language. The INTEGRA 9510 currently supports 11 languages.

SETUP TAB

The **Setup** tab is where system settings are defined, such as:

- The preferred method of grading bar codes (automatic, manual or auto-sector)
- Single or Multi-bar code Verification
- Application Standards
- Camera options
- Operator names and passwords
- Local time of day, date, Greenwich Mean Time (GMT), and time zone
- Product Information (used for EAN-8, EAN-13, UPC-A, and UPC-E Symbologies)
- Distributor Information

CALIBRATION TAB

The **Calibration** tab is where calibration of the system occurs. Two Calibrated Conformance Standard Test Cards are available for calibration: GS1-128 and EAN/UPC. The Calibration Card you use depends on your field of view.

The Calibration Cards are used to certify that the system is calibrated according to ISO/IEC 15416:2000(E) and is traceable to NIST standards.

GRADING TAB

The **Grading** tab performs the following functions:

- Indicates the overall grade of the bar code.

- Allows you to select one of two ways to verify a bar code: Full or Pass/Fail.
    - The "Full" option analyzes a bar code in detail and displays the ISO parameters.
    - The "Pass/Fail" option should be selected if you are not interested in the detailed analysis of the bar code and are more interested in whether the bar code meets your company's minimum ISO grade requirements.

- Viewing options such as:

OPTION	DESCRIPTION
Contrast	Contrast of each scan line on the bar code.
Modulation	Allows you to view a modulation error.
Decodability	Indicates the measurement of the deviation of the width of bars and spaces when compared to their ideal widths.
Defects	Indicates elements on the correct side of the global threshold but have deviation in reflectance.
OCR	Verifies the human readable portion of a bar code.
Zoom	Allows you to view small labels.

- Verify the following types of codes: linear codes, two-dimensional matrix codes and two-dimensional multi-row codes.

- View all of the measured parameters individually, which are used to determine why a bar code has a certain grade. There are numerous parameters listed, depending on the symbology.

- Checks for Opacity and Blemishes.

- Height and Width measurements of the bar code.

- Color Code legend which reports ISO/IEC grades by color code.

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ZOOM TAB

The **Zoom** tab allows you to further evaluate the quality of bar codes by magnifying the bar code image up to four times. You can change the position of magnification by clicking on a different position on the image, and you can also change the horizontal and vertical position of the image.

SRP VIEW TAB

The **SRP** (Scan Reflectance Profile) tab allows you to further evaluate a bar code error by selecting what type of error will be super-imposed onto the SRP graph. Options include:

- Element Reflectance
- Modulation
- Decodability (width of each element)
- Defects (inflection to element reflectance)
- Full Screen Waveform
- Traditional Bar Growth and Shrinkage

STRUCTURE TAB

Many organizations throughout the world create bar code labels according to a set of rules used to standardize how bar code data is to be structured in order to easily transfer trade-related information between two parties. For the most part, these rules were created and governed by an international group called ISO/IEC. The **Structure** tab shows the data structure analysis of all bar code symbologies.

ARCHIVE TAB

The INTEGRA 9510 constantly monitors the bar code image and determines if it is different from the last bar code image collected. If the image is different, the software stores the new report and marks it with a file number along with a new date/time stamp. The **Archive** Tab allows you to access these various reports and files, which are stored in an SQL-compatible database. Archive options include:

- Import Image from File
- Export Image to File
- Recent Reports (last 30 days)
- Delete Prior to Specific Date
- Software Version History Files
- Audit Trail Report
- Calibration Report (History)
- Reference Report
- Export reference data
- Change SQL connection
- Create Backup database
- Browse Backup database

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TERMS AND CONDITIONS

QUOTED TERMS

An LVS® End User Price Book or Sales Quotation provided by an LVS® Sales Representative or Distributor determines the pricing of the system. Quotations are valid for 60 days from the Quotation date. Any modifications will necessitate a new Quotation.

SHIPPING

Varies based on quoted system. INTEGRA 9510 systems ship approximately 10 business days after receipt of order. Shipment is dependent on LVS® production schedules at receipt of Purchase Order. LVS® will acknowledge receipt of Purchase Order and delivery date.

All systems ship via truck transport/courier service against customer Account Number. All prices are F.O.B (EXW – International) Label Vision Systems' facility in Peachtree City, Georgia 30269 USA.

PAYMENT TERMS

Payment is due 30 days from date of invoice with approved credit terms or as agreed in writing. Payment in advance for orders until credit terms approved. All prices are F.O.B (EXW – International) Label Vision Systems' facility in Peachtree City, Georgia 30269 USA.

WARRANTY

For customers outside the United States, LVS® warrants the quoted system will be free of manufacturing defects for a period of one year from the date of shipment to Customer and will conform with all current specifications at time of product shipment. At its option, Label Vision Systems, Inc. will replace or repair defective goods at no charge. Consumable items (see "Optional Accessories and Spare Parts" section in LVS® Price Book) are excluded from this warranty.

Customer shall pay to ship goods to and from Label Vision Systems' facility. If personnel must travel to Customer's location, Customer shall bear those travel expense. THIS WARRANTY IS IN LEIU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. LABEL VISION SYSTEMS MAKES NO WARRANTY THAT SAID GOODS ARE FIT FOR ANY PARTICULAR PURPOSE, NOR ANY WARRANTY AS TO THE MERCHANTABILITY OR QUALITY OF GOODS SOLD EXCEPT AS HEREIN STATED. Under no circumstances will Label Vision Systems be liable for any special or consequential damages.

TECHNICAL SUPPORT

- ### TECHNICAL SUPPORT - USA

    LVS® provides telephone support (+1-770-487-6414) five days a week from 9:00 a.m. to 4:00 p.m., Monday through Friday (EST/EDT). Online support with an LVS® representative is available via the following web-based system:

Contact LVS® at +1-770-487-6414 or info@lvs-inc.com

www.gottomypc.com; customer must have an Internet connection with complete access to the LVS® system. Contact your LVS® representative to initiate a GoToMyPC online session.

▪ TECHNICAL SUPPORT - INTERNATIONAL

Contact your local distributor as listed on the LVS® Web site (www.lvs-inc.com) or contact LVS® Headquarters in the USA as defined in the above section.

CANCELLATION

After LVS® accepts your order, the Customer may not cancel the order without LVS'® written consent. In the event of cancellation, Customer shall pay LVS® as liquidated damages all cost incurred by LVS® in connection with the contract, including actual labor and material, and the costs of materials on hand which were acquired or produced in connection with this order, plus an additional 40% of those costs.

PRODUCT RETURNS

Customer may return purchased system within 30 days from date of shipment from LVS® facility. Customer is charged 25% of system purchase price as a restocking fee and shall pay to ship goods to LVS® facility in Peachtree City, Georgia 30269 USA. The system must be returned in the original packaging in which it was received. Customer will be charged for any missing parts or damage to the system.

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ABOUT LVS®

For over 30 years, LVS® has designed, developed, and manufactured print quality vision inspection and verification systems, leveraging our patented methodology in bar code imaging and ISO (ANSI) bar code grading. LVS® has installations in over 40 countries and maintains a commitment of excellence to our customers, the print industry and the vision products we produce. LVS® is ISO 9001:2008 certified, is proud to be a GS1-US Solution Provider, and our INTEGRA 95XX products are GS1-US certified.

ISO 9001:2008 Certification

LVS® received ISO 9001:2008 certification from the National Quality Assurance, USA (NQA, USA), an accredited registrar that performs assessments of management systems against the requirements of national and international standards for quality.

The receipt of ISO 9001:2008 registration is the most widely recognized standard for quality management systems. ISO 9001:2008 certification validates LVS'® commitment to all our customers and guarantees that continued improvement and compliance are achieved.

Our Products

LVS'® products are unique in the world as they inspect variable printed data and bar codes to guidelines established by the International Standards Organization (ISO).

LVS® provides print quality inspection systems for both off-line and in-line applications. Off-line verifiers include the INTEGRA 9510 and hand-held INTEGRA 9570. Both verifiers are unique in the world of ISO verification due to their ease of use and ability to verify linear and two-dimensional (2D) codes without any change of equipment; autodiscriminate the symbology, narrow bar width and aperature to be used to evaluate the code; and highlight trouble spots in the code. The INTEGRA 9510 and INTEGRA 9570 also offer numerous, impressive analytical tools used to identify and evaluate barcode problems. The INTEGRA 9510 is certified by GS1 US and both verifiers are 21 CFR Part 11 compliant-ready.

INTEGRA 9510

INTEGRA 9570

The in-line LVS® 7000 system is a high speed, user-friendly vision system that improves the quality inspection process and reduces the related manpower. The LVS® 7000 verifies to ISO/IEC standards all bar codes and matrix codes as they are printed, validates sequential or

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random number sequences, as well as fullfills the normal print quality inspection steps such as Master-to-Label Comparison (blemish detection), missing or filled-in text, etc. The LVS® 7000 can be mounted on a press, rewinder, conveyor and most other inspection stations.
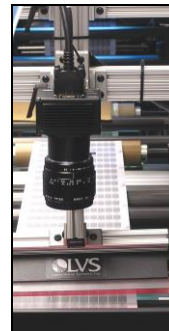
The LVS® 7500 offers 100% print quality inspection and barcode verification capabilities for use with Thermal Transfer Printers and other media. Built on the powerful LVS® 7000 software platform, the LVS® 7500 functions include master-to-label comparison (blemish detection), barcode verification (1D and 2D) , barcode validation, optical character recognition (OCR), optical character verification (OCV), field matching, and number/data validation. The LVS® 7500 provides a cost-effective means to identify defects, avoid liability, reduce re-work, and control waste resulting from labeling or print quality errors.

LVS® 7000

LVS® 7500

Our Clients

LVS'® products are sold on a worldwide basis with sales representation in Holland, England, Germany, Switzerland, Sweden, Serbia, France, Italy, Poland, China, Brazil, Chile, Japan and others. A few of our clients include:

- Johnson and Johnson
- Merck
- Bausch and Lomb
- Wyeth
- Mead Westvaco
- Pfizer
- FedEx

- Pitney Bowes
- Texas Instruments
- Cardinal Health
- DHL Worldwide Express
- Zebra Technologies
- Bosch
- Avery Dennison

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