INTEGRA 9570

INFORMATION BOOKLET

LVS®

THE LEADING PROVIDER OF
PRINT QUALITY INSPECTION SYSTEMS

LVS® IS AN ISO 9001:2008 REGISTERED COMPANY

Label Vision Systems
101 Auburn Court
Peachtree City, GA 30269
USA

Phone: +1-770-487-6414
Toll Free: +1-800-432-9430
Fax: +1-770-487-0860
E-mail: info@lvs-inc.com

Visit us online at
www.lvs-inc.com

EFFECTIVE: 20-JAN-2012
SUPERSEDES: NONE

TABLE OF CONTENTS

IMPORTANT

- While all information contained in this document is believed to be accurate and complete, the continual improvements of LVS® products may cause information in this document to become outdated. Please contact LVS® or your distributor if you have product questions or to verify you have the most current version of the document.
- The information in this guide is for informational purposes only. It is not intended for use as an Operations Manual.

How to Contact Us

Label Vision Systems, Inc.
101 Auburn Court
Peachtree City, GA 30269 USA

Local:	+1-770-487-6414
Fax:	+1-770-487-0860
Toll Free:	+1-800-432-9430
Information:	info@lvs-inc.com
Internet:	www.lvs-inc.com

FEATURES

The INTEGRA 9570 is a 1D and 2D handheld bar code verifier desgined for offline verification of bar codes to ISO/IEC standards. The INTEGRA 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 aperature to be used to evaluate the code; and highlight trouble spots in the code. Additional outstanding features include:

- **Inspection.** Inspects all nine of the ISO (ANSI) parameters, plus added features of determining blemishes, opacity, and human readable validation. The INTEGRA 9570 also verifies 2D codes and reports all parameters as specified in the applicable symbology specification.
- **Detailed Analysis.** 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 aids in the analysis.
- **Advanced Technology.** Sensor technology allows more detailed analysis of the bar code, and makes reading of small and truncated codes possible, accurate and easy.
- **Numerous Verification Options.** 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.
- **ISO Grading.** ISO grades bar codes on various label sizes.
- **Accurate.** The INTEGRA 9570 is the most accurate handheld verifier on the market today with the highest degree of accuracy and repeatability.
- **Reliable.** The INTEGRA 9570 is the most reliable handheld verifier on the market.
- **EAN/UPC NIST Traceable Calibrated Conformance Standard Test Card.** The INTEGRA 9570 is supplied with a NIST traceable calibrated conformance standard test card provided by GS1 to ensure that the system is always within a known calibration standard.
- **21 CFR Part 11 compliant-ready**

ENGINEERING SPECIFICATIONS

Physical Properties

Height ▪ Verifier height ▪ Total height including handle	2.13 inches 4 inches	54.10 mm 101.6 mm
Length	3.94 inches	100.08 mm
Width	6.56 inches	166.62 mm
Weight	1.3 pounds	0.589 kg

Line Scan Camera

- 400 DPI
- Floating Sensor Head

Overall Scanning Width

- 5.4 inches (137.16 mm) (picket fence format)
- 8.0 inches (203.2 mm) (ladder format)

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 that comply with ISO/IEC standards and GS1 General Specifications

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

- 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 (LVS® part # CAL002)

21 CFR Part 11 Compliant-Ready

Specifications subject to change without notice.

CONTACT FOR FREE DEMO
+1-770-487-6414 ◆ info@lvs-inc.com

CONFIGURATIONS

The INTEGRA 9570 uses a 400 dpi line scan camera to verify 1D and 2D codes that comply with ISO/IEC standards and GS1 General Specifications.

Minimum X Dimension (Nominal):	1D (Narrow Bar Width): 8.8 mils (0.0088 inches) (0.223 mm) 2D (Cell Size): 12.5 mils (0.0125 inches) (0.317 mm)
Field of View (Approximate):	5.4 inches (138 mm)
Calibration Card:	EAN/UPC (Part Number: CAL002)
INTEGRA 9570 Part Number:	9570-C-5-0

ITEMS INCLUDED WITH PURCHASE

- INTEGRA 9570 Handheld Barcode Verifier
- USB Cable
- USB Dongle
- Hex Wrench
- EAN/UPC NIST traceable Calibrated Conformance Test Card (test card) used for calibrating the INTEGRA 9570. The test card is provided by GS1 to ensure the INTEGRA 9570 is always within a known calibration standard.
- Installation CD (includes INTEGRA 95XX software and "INTEGRA 95XX Series Bar Code Quality Station Operations Manual")
- "INTEGRA 9570 Installation and Quick Start Guide"
- Flash Drive (contains INTEGRA 9570 demonstration video)

  Note: The INTEGRA 9570 connects to a customer-supplied computer. See "Engineering Specifications" section for minimum computer requirements.

INSTALLATION

Installation of the INTEGRA 9570 consists of three easy steps:

1. Install the INTEGRA 95XX software (located on the Installation CD) on a customer-supplied computer. Onscreen instructions guide you through each step of the installation process.
2. Insert the supplied dongle into the computer's USB port.
3. Connect the USB cable from the computer's USB port to the INTEGRA 9570's USB port.

An onscreen instructional Wizard is provided, along with an "INTEGRA 9570 Installation and Quick Start Guide," ensuring the installation process is as simple as possible.

SUPPORTED SYMBOLOGIES

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
QR Code
UPC-A
UPC-E
USPS Intelligent Mail Barcode (also referred to as 4-State Barcode)

SUPPORTED STANDARDS

The INTEGRA 9570 supports the following standards:

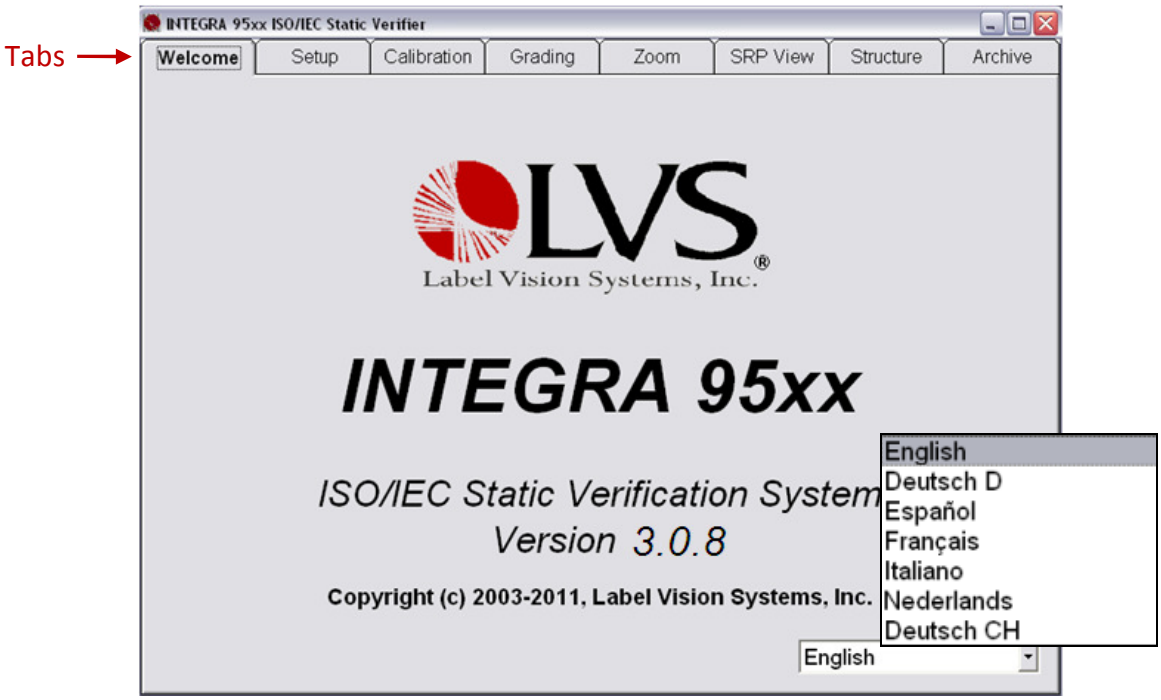
APPLICATION STANDARDS:
Below are just a few Application Standards supported by the INTEGRA 9570:

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)

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

SOFTWARE OVERVIEW

The INTEGRA 9570 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 9570. This tab provides the version number and allows the user to select the desired software language. The INTEGRA 9570 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. An EAN/UPC NIST traceable Calibrated Conformance Test Card (test card) used for calibrating the INTEGRA 9570. The test card is provided by GS1 to ensure the INTEGRA 9570 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.

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 9570 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

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. The INTEGRA 9570 ships 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:

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.

ABOUT LVS®

For over 30 years, LVS® has been in the business of designing, developing and manufacturing print quality vision inspection systems, leveraging our patented methodology in bar code imaging and ISO (ANSI) bar code grading. LVS® has installations in over 35 countries and maintains a commitment of excellence to our customers, the print industry and the vision products we produce.

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.

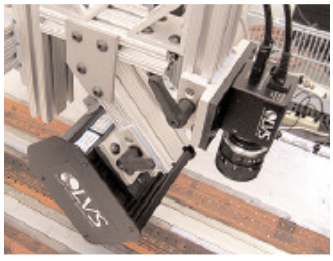
The receipt of ISO 9001:2008 registration is the most widely recognized standard for quality management systems. ISO 9001:2008 certification validates LVS'® commitment to all our customers and guarantees that continued improvement and compliance are achieved.

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.

The in-line LVS® 7000 system verifies to ISO/IEC standards all bar codes and matrix codes as they are printed, validates sequential or random number sequences, as well as fullfills the normal print quality inspection steps such as blemish (Master to Label Comparison) detection, missing or filled in text, etc; all of this is accomplished at line speed.



LVS® 7000

The LVS® 7500 builds on the successful LVS® 7000 systems which have provided the market with a full range of bar code verification and print quality inspection capabilities. The LVS® 7500 now makes this complete functionality available for use on Thermal and Thermal Transfer Printers. Solid state, high resolution image capturing technology replaces the camera and lighting previously used, resulting in a low cost, practical solution that specifically meets the needs of the thermal and thermal transfer label printing industry. Currently, LVS® offers two models, the LVS® 7500, with a sensor width of 5.4 inches (138 mm), and the LVS® 7508, with a sensor width of 8.5 inches (216 mm).

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

Contact Us

Label Vision Systems, Inc.
101 Auburn Court
Peachtree City, GA 30269 USA

Local:	+1-770-487-6414
Fax:	+1-770-487-0860
Toll Free:	+1-800-432-9430
Information:	info@lvs-inc.com
Internet:	www.lvs-inc.com