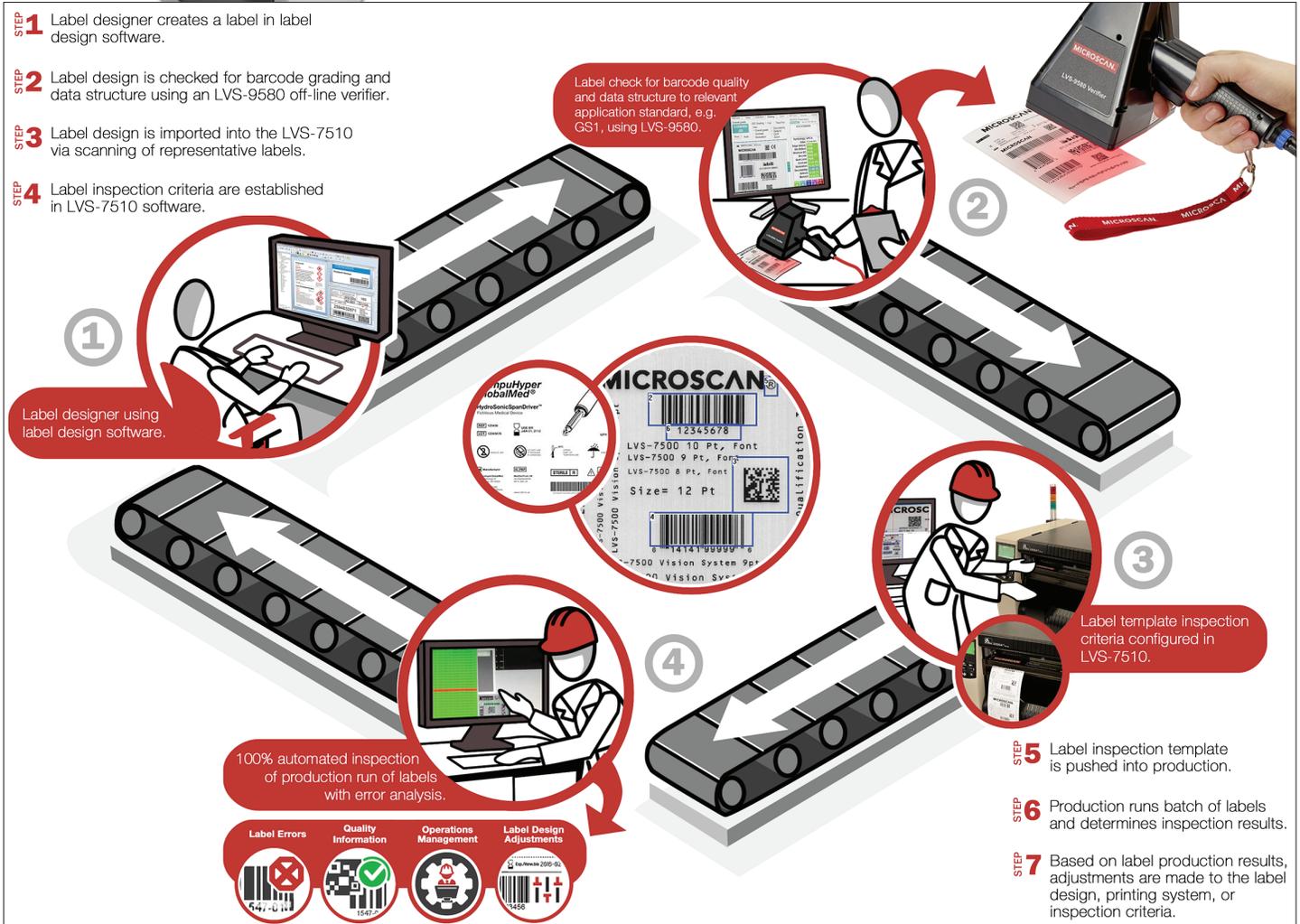


LVS-7510 FOR ZEBRA ZT600 SERIES



Thermal Printer Label Inspection System

Ensure that 100% of labels are compliant with regulations and quality requirements at the point of label production, avoiding costly downstream errors. The LVS-7510 is now available for the Zebra ZT600 series of printers, providing 100% print quality inspection and barcode verification without slowing down the printing operation.



LVS-7510 FOR ZEBRA ZT600-SERIES THERMAL TRANSFER PRINTERS

Barcode Verification and Trend Graphing

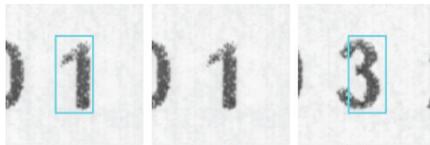


Data Matrix verification parameters and results

| Section | Barcode 2D grade |
|-----------------------|--|
| Minimum passing score | 1.5 |
| okay | 33 / 33 - 100% |
| Decoded Text | 30000-0.1MG DOSE CARTON to 30029-0.1MG DOSE CARTON |
| Overall | B:11 (93%), C:22 (67%) |
| Symbology | Data Matrix |
| Xdim | 22.2 to 22.4, average was 22.3 |
| Contrast | B:23 (79%), C:18 (30%) |
| Modulation | B:11 (44%), C:18 (23%) |
| AxisNonUniform | A:33 (100%) |
| GridNonUniform | A:33 (100%) |
| UnreadEC | A:33 (100%) |
| FoundDef | A:31 (94%), B:2 (6%) |

Grade 1D and 2D symbols to ISO/IEC 15415 and ISO/IEC 15416 standards with user-configurable thresholds for establishing a "pass" grade. ECC-200 Data Matrix, QR Code, PDF417, MicroPDF417, GS1-128, Code 39, UPC-A, UPC-E, EAN, Aztec, and other symbologies are supported.

Blemish Detection



Golden Toggle Actual

Create and store hundreds of reference "golden images" with the ability to detect print faults, to distinguish fixed from variable information, to detect die-cut errors and label misalignment, and to identify missing information. Blemish, barcode, and OCR/OCV error images can be viewed on the operator HMI.

OCR and OCV

Verify Optical Character Recognition (OCR) and Optical Character Verification (OCV) data such as lot number or expiration date, comparing information against expected values and triggering errors when a mismatch occurs. Validation of an expected numerical series, such as serial numbers, can be compared against an imported file containing expected numbers. The system can be trained to learned additional Latin-based character fonts.

LVS-7510 Functionality at a Glance

- Used for product label verification in medical device manufacturing, pharmaceutical manufacturing, consumer goods packaging, cosmetics packaging, food and beverage packaging, and specialty chemical applications.
- 100% label inspection, including 1D/2D barcode quality verification, OCR/OCV verification, serialization, and blemish detection.
- Available with optional peel and present and internal rewinder
- Provides operator notification of print quality degradation, enabling proactive maintenance.
- Can be used with off-line verifiers to create a seamless label design and production quality system.

For more information, visit www.microscan.com/LVS-7510.

Database Archive and Connectivity

Job data is archived and stored in .csv file format for ease of export. All records are date, time-stamped and automatically archived. Remotely review errors and record acceptance or rejection action. Run summary report for quality control and data validity checking. Import of matchfile date in .csv format for use in inspection jobs supported. Data exchange via TCP/IP commands is supported.

Error Notification

Multiple output options for error notification including stop relay interface to the printer, external light stack, and on-screen warning set to user-defined thresholds.

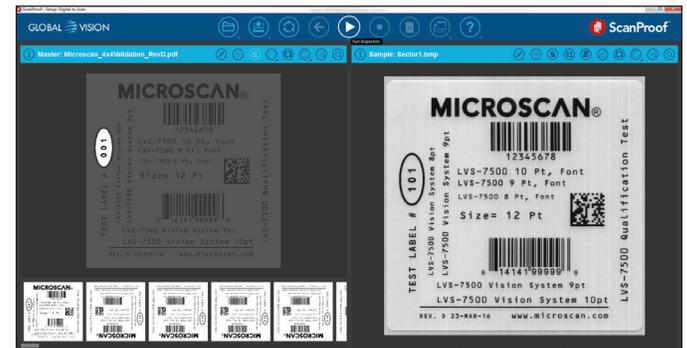
Validated System Applications

21 CFR part 11-compliant-ready with multiple security levels and comprehensive data management and reporting options. Microsoft Active Directory, audit trail of operator actions, and inspection archive for each label.

AutoExecute Function

AutoExecute allows the user to initiate the automatic import of one or more LVS-7510 jobs. This helps automate the processing of multiple jobs without operator interaction.

Optional PDF Comparator Software



The PDF Comparator is an optional advanced error detection program for the LVS-7510 which compares one reference "golden image" to a PDF master artwork file selected by the user. The PDF Comparator compares the approved master artwork file to the golden image, and the Blemish Detection Tool compares the golden image to the rest of the labels.

Accuracy and Data Integrity

- Lower Inspection Costs
- Identify Defects
- Maintain Quality
- Reduce Rework
- Control Waste
- Reduce Non-Compliance Risk

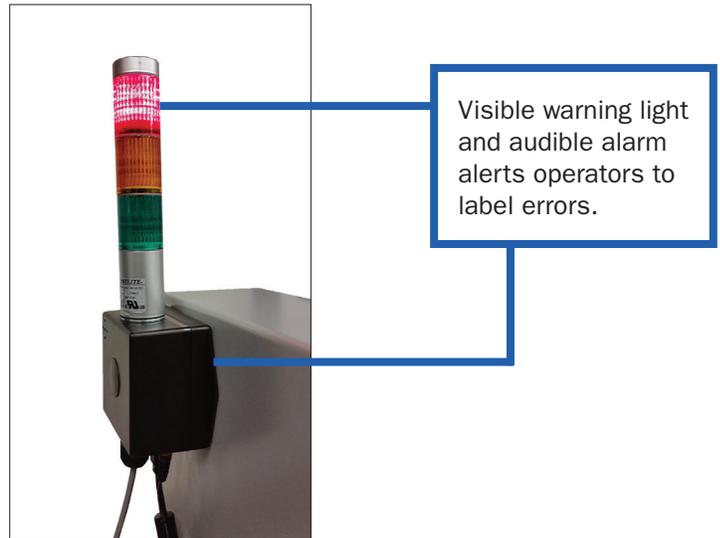
Typical LVS-7510 Applications

- Medical Device Manufacturing
- Pharmaceutical Manufacturing
- Consumer Goods Packaging
- Specialty Chemical Manufacturing

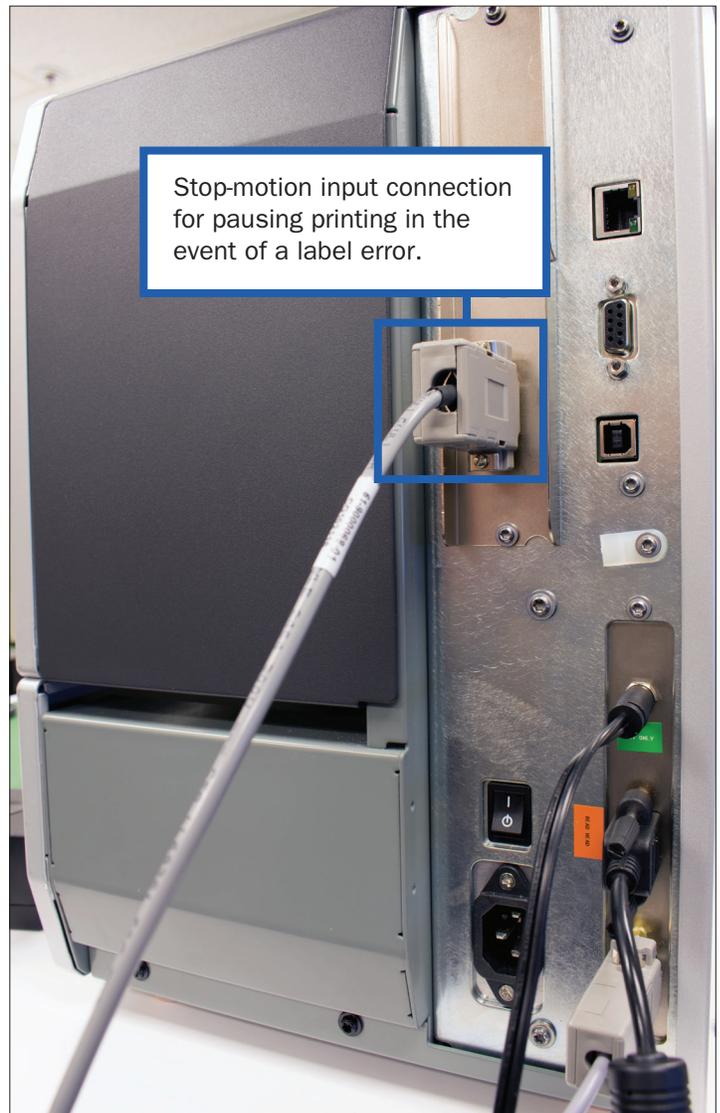
LVS-7510 FOR ZEBRA ZT600-SERIES THERMAL TRANSFER PRINTERS

Product Compatibility

Omron Microscan LVS-7510 Software has been tested by Zebra and is certified as compatible with Zebra ZT600-series printers.



Feature Overview



LVS-7510 FOR ZEBRA ZT600-SERIES THERMAL TRANSFER PRINTERS

AVAILABLE MODELS¹

| Zebra ZT600-Series Part Number | Omron Microscan LVS-7510 Part Number ² | Description |
|--------------------------------|---|---|
| ZT61043-T010100Z | 7510P-5-ZT610-300DPI | LVS-7510-5-ZT610-300DPI, INTEGRATED W/Zebra ZT610 300 DPI |
| ZT61046-T010100Z | 7510P-5-ZT610-600DPI | LVS-7510-5-ZT610-600DPI, INTEGRATED W/Zebra ZT610 600 DPI |
| ZT61043-T210100Z | 7510P-5-ZT610-300DPI-PP | LVS-7510-5-ZT610-300DPI, INTEGRATED W/Zebra ZT610 300 DPI with Peel and Present plus Rewinder |
| ZT61046-T210100Z | 7510P-5-ZT610-600DPI-PP | LVS-7510-5-ZT610-600DPI, INTEGRATED W/Zebra ZT610 600 DPI with Peel and Present plus Rewinder |
| ZT62063-T010100Z | 7510P-8-ZT620-300DPI | LVS-7510-8-ZT620-300DPI, INTEGRATED W/Zebra ZT620 300 DPI |
| ZT62063-T210100Z | 7510P-8-ZT620-300DPI-PP | LVS-7510-8-ZT620-300DPI, INTEGRATED W/Zebra ZT620 300 DPI with Peel and Present plus Rewinder |

¹Contact Omron Microscan for additional models not listed here.

²Assembly number includes factory integration with printer.

SPECIFICATIONS

| | |
|----------------------------------|---|
| Maximum Print Speed | Up to 254 mm/sec (10"/sec) based on printer capabilities |
| Supported Print Widths | Up to 104 mm (4.09") of label width inspected; maximum web width of 114 mm (4.5") |
| Barcode Verification | Grading according to ISO 15415 and ISO 15416 of 1D and 2D codes, including GS1 symbologies |
| Minimum Barcode Dimension | For reading only: 1D = 0.160 mm (0.0063") 2D = 0.254 mm (0.0100") For verification: 1D = 0.223 mm (0.0088") 2D = 0.317 mm (0.0125") |
| OCR Fonts Supported | Minimum 6-point font, Latin-based fonts, monospaced fonts, OCR-B for upper and lower case |
| Environmental | Operating Temperature: 10° to 30° C (50° to 86° F) Relative Humidity, Operating: 20% to 80% (non-condensing); Relative Humidity, Storage: 20% to 95% (non-condensing) |

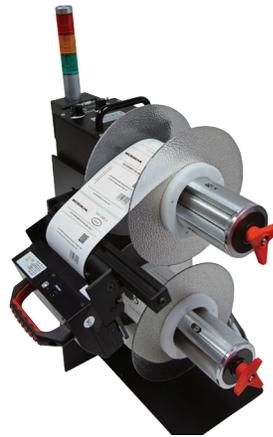
SYSTEM PERFORMANCE AND REQUIREMENTS

- Inspects at print speeds of up to 254 mm/sec (10"/sec)
- Requires PC for each connected printer, with Intel® Quad Core 2.6GHz processor, 8GB RAM, 500 GB storage
- Windows® 7, Windows® 8.1 Pro, or Windows® 10 Pro

SERVICES AND ACCESSORIES

| | |
|-------------------------|--|
| 98-LVS0092B | 7510 IQ/OQ Validation Procedure Guidelines |
| 98-LVS00035 | Onsite Training (Per Day) |
| 98-LVS00174 | Onsite Installation (Per Day) |
| 98-LVS00025 | Online Training and Support - 4 Hours |
| 98-LVS0092A | 7500 IQ/OQ Validation Procedure Guidelines |
| 98-CAL017-01 | Calibration Conformance Test Card, 7500 5 |
| 98-CAL018-01 | Calibration Conformance Test Card, 7500 8 |
| REPAIR | Time and Material for Repairs (Per Hour) |
| 98-12EW-VER-75XX | 12-Month Extended Warranty, LVS-75XX |
| 98-24EW-VER-75XX | 24-Month Extended Warranty, LVS-75XX |

ALSO AVAILABLE FROM OMRON MICROSCAN LVS-7500 with External Dual-Spindle Rewinder



Standalone label rewinder that can be configured for use with the LVS-7500/LVS-7510. This system is ideal for use with multiple printers supplying to a central inspection location. The dual spindle rewinder is a cost-effective, 100% inspection solution. Supports roll diameters up to 218 mm (8.5"), and inspection speeds up to 305 mm (12") per second.

LVS-7500 External System



For use with a broad variety of thermal label printers that have I/O interface capability. Adjustable stainless steel mounting brackets allow the readhead to be mounted and matched to the height of the printer. The user's printer is placed onto the steel base plate where the printer discharge aligns to the LVS-7500 readhead.

SAFETY CERTIFICATIONS DESIGNED FOR

FCC, CE, UL

QMS CERTIFICATION

www.microscan.com/quality

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Warranty – For current warranty information about this product, please visit www.microscan.com/warranty.



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