

print inspection

webVISION

**100% quality control
at full production speed**



- Inspect the entire web
- 360 dpi resolution
- Target critical areas
- Take predetermined actions
- Reduce waste

Examine every page of print in-line as it's produced on today's fastest color or monochrome digital printers and perform instant analysis to ensure quality results. Whether your business handles transactional print, transpromo documents or print-on-demand, WebVision™ digital print quality assurance system from Lasermax Roll Systems guarantees that you're putting your best face forward to your customers.

WebVision analyzes print immediately, so problems are identified immediately and corrective action may be taken. Re-prints and the corresponding waste of time and materials are all slashed dramatically. Users of ultra-fast color printers with higher costs-per-page gain reassurance that their valuable color print contains no streaks or jet-outs, nor a variety of other quality or job integrity problems. WebVision's high-resolution cameras offer increased assurance that faults will be identified. A full suite of management reports offers the opportunity to gain critical insight into production processes to prevent future problems from ever happening.

With increasing printer speeds and the common use of barcodes, it is not possible for operators to perform manual inspections of print quality. WebVision enables automated analysis of data integrity, image quality, and workflow processes, through a broad array of testing functions. WebVision consists of a paper-handling module, high-resolution cameras, a controller, and a high-resolution touch-screen monitor. The system is powered by sophisticated image capture and analysis software and supports numerous areas of interest and quality tests per page. Each test can be configured, based on user-definable tolerances, to provide warnings such as a flashing light, audible bell, or stopping the printer.

Print image quality analysis

Color verification

WebVision matches printer output to a color pattern sample translated to a CIElab standard and provides a warning if the color drifts beyond a user-defined threshold.

Streak detection

Look within an expected white zone for streaks and ensure no print appears there. WebVision also has the unique ability to look at a defined area on the page, which may or may not have print, and distinguish between desired printed copy and undesired print (a streak or smear in the area.)

Void / Jet-out detection

Ensure printed lines and color blocks do not contain unwanted white space. WebVision checks the uniformity of a printed object along its horizontal and vertical lines to ensure inkjet heads are functioning as intended.

Postal standard verification

Avoid postal fines and verify the quality of postal elements. Intelligent Mail Barcode, PLANET code and POSTNET code are all tested.

Barcode grading

WebVision grades barcodes using 13 ANSI specifications, such as decodability, defects, edge determination, symbol contrasts, etc. The user defines lowest allowed overall grade, based upon the internal standards required to avoid issues on downstream processing systems. Graded barcodes

Alignment

Postal Verify

Color Verify

Void Detect

Streak Detect

DATE	DESCRIPTION
1-AUG	Allman's Sporting Eq...
3-AUG	Sherman's BBQ
4-AUG	Credit - Tillm... Dept.Store
5-AUG	J'aim...
9-AUG	Rest Stationery
10-AUG	Simpson's Deli
13-AUG	Campbell's Shoes
17-AUG	Cashback Promot...
20-AUG	Tindall...
22-AUG	ca N Diner
23-AUG	Online - Trader Corp.
27-AUG	Credit - Bullseye Dept.Store
29-AUG	Dylan's Seafood
30-AUG	Elliot Ramons
1-SEP	Karey ...
2-SEP	Bullseye Dept. Store
4-SEP	Tree Bark Greenhouse
9-SEP	Zubrance Day Spa
12-SEP	Briggett's Flower Garden
15-SEP	Dylan's Seafood
19-SEP	Cashback Promotion
22-SEP	Online Payment Received
23-SEP	Raferty Inn
25-SEP	Bullseye Dept. Store
27-SEP	Tree Bark Greenhouse
28-SEP	Zubrance Day Spa
30-SEP	Briggett's Flower Garden
1-OCT	Dylan's Seafood
2-OCT	Cashback Promotion
4-OCT	James Stone Jewelry
6-OCT	Raferty Inn
9-OCT	Bullseye Dept. Store

include 1D, 2D Datamatrix, PDF 417, MICR, and ISO/IEC 15415 and 15416. High-resolution imaging allows grading of very small barcodes.

Data integrity analysis

Data matching

Read and compare data from multiple locations to ensure a match. Guarantees that each page in a multi-page statement or policy is intended for a single account number or customer. WebVision has powerful OCR-reading capability and its high-resolution enables accurate reading of small fonts.

Duplicates check

WebVision checks a job id against a database to ensure that a single job is not printed twice.

ANSI Barcode Grading

Data Integrity

Logo Match

Sequence

Sequence verification

Read a sequence number on a document and confirm proper sequencing to preceding numbers. WebVision alerts the operator to an issue, or merely logs missing sequence numbers, depending upon user set-up instructions.

Pattern / Logo match

Verify that a stored image pattern appears as required on a page. For example, confirm that a signature is properly in place on a check. WebVision is also capable of locating stored image patterns on a page without defining a specific region of interest, and testing those images for accuracy.

Data validation

Read data and validate that it is accurate. For example, confirm that the payment amount printed on a check is correct.

Workflow process analysis

Form ID Verification

For pre-printed forms commonly used on monochrome printers, WebVision reads the form ID to guarantee the correct roll stock has been loaded by the operator.

Pre-Print Alignment

For pre-printed forms commonly used on monochrome printers, WebVision confirms alignment of digital print to pre-print.

Operator check prompting

Some problems can only be identified by the human eye. WebVision recognizes this, and offers managers the ability to require periodic sign-off by the operator that they have reviewed stored images in WebVision. No stop in production is required for these visual checks.

WebVision takes predetermined actions after performing any user-defined test. You decide how critical a particular test is during initial set-up, and accordingly instruct WebVision how to respond to a failure. Choose different responses for different test failures—from simply logging a failure to stopping the entire print line—WebVision takes the action you want, when you need it.

Professional Services

Acquiring a print inspection system is not just installing a piece of hardware on your print room floor—it's establishing a partnership to help make your operation as accurate and productive as possible. Lasermax Roll Systems offers a variety of professional services to help you make optimum use of your WebVision print inspection system and bring you that success:

Software deployment and implementation

We'll spend extra time developing, validating and deploying your job templates.

Enhanced expert training

We'll spend extra time with designated "experts" within your organization, training them in template development and assisting as WebVision is implemented into your workflow.

Custom solutions group

We'll help you tie WebVision to your ADF systems, set-up auto divert functionality, or develop special features tailored to your operation.

Management reports

WebVision offers managers the ability to move beyond fixing problems as they occur—managers now have a resource for learning where faults typically occur to proactively attack the underlying problems. Reports are web-based for easy availability and may access an on-board SQL database for real-time lookup, analysis and logging.

User-friendly features

WebVision's flat touch screen, two-up full screen color view, and multi-lingual operator interface ensure that WebVision is easily accessible by print operators. Template-driven settings make it easy to change the parameters of existing jobs or program in new jobs.

ADF Connectivity

WebVision may connect to central ADF management systems to communicate job and document level details, as well as operator and machine performance statistics. Contact us for more details.



WebVision EXspect

The WebVision EXspect hardware configuration is positioned between the web-fed digital printer and the finishing module. A quality inspection system is only as good as the paper-handling platform—an unstable inspection location results in an unreliable test. Lasermax Roll Systems has more experience moving paper with digital printers than any company in the industry, so you can trust the WebVision EXspect hardware will provide the most reliable inspection.

Specifications

Performance / Media

Speed max.

<i>taut web</i>	650 fpm	3.3 m/sec
<i>slack web</i>	350 fpm	1.8 m/sec

Print Simplex, Duplex
1-up or 2-up

Feeding Pinfed or pinless

Paper weight 11# bond–110# index
42–200 gsm

Web width 8"–21" 200 mm–530 mm

Resolution 360-dpi grayscale or color

User interface

- ◆ Touch screen wide-format (2-up) monitor
- ◆ Multi-lingual operator interface (English, Spanish, French, German, Polish, Japanese, Swedish, Dutch)
- ◆ Simple template-driven job setup
- ◆ Multiple simultaneous areas of interest and quality tests per page
- ◆ Freeze, pan, zoom and replay images
- ◆ Visual warnings and alerts

Data Management

- ◆ On-board SQL database for real-time lookup, analysis and logging
- ◆ Extensive data export capabilities

Software capabilities

- ◆ Barcode grading
- ◆ Print Quality Verification
- ◆ Color Verification
- ◆ Format Verify, Postal Verify, Address Verify, and Sequence Verify
- ◆ Job tracking and reporting
- ◆ Matching (front to back)
- ◆ Data Validation
- ◆ Image recording and output, and more

Supported symbologies

- ◆ WebVision reads common 1D, 2D and Postal barcodes, as well as OCR fonts

System connectivity

- ◆ Real-time connectivity with ADF systems
- ◆ Communication with printers and/or post processing devices
- ◆ Generate configurable data output to networked systems