DocuVision® 12.0
Automated Color Print Quality Inspection and Variable Data Analysis for High-Speed Inkjet Presses

A Proven Way to Monitor Digital Print Output
DocuVision® 12.0 is an in-line print quality and data integrity inspection system built for today's high-speed color inkjet printers. At web speeds up to 1000 feet per minute, it delivers full page, full color 100% data verification and output quality control assurance. By automating the QC process with DocuVision, press performance can improve up to 15% over manual interventions resulting in improved productivity, reduced waste and the delivery of an exceptional product.

Maximize Printer Performance with DocuVision’s Prime Page™
To maximize the return on investment in inkjet technology, peak press performance must be maintained. While manual quality processes remain time consuming, ineffective and subjective, automatically validating critical press attributes overcomes this limitation. DocuVision Prime, a new set of Print Quality Monitoring tools, provides a revolutionary way to automate quality control without impacting press operations. This new automated ‘Operator Assistance’ feature uses high-resolution imaging coupled with proprietary “Prime Page” patterns and software to precisely analyze key press attributes and assure consistent output. Should any out-of-spec condition be detected, the operator is immediately alerted to the issue and optionally, the press can be signaled to stop production.

Pick a Frequency, Check the Press, Run with Confidence
The Prime Page is easily injected into the workflow using existing composition software packages at the beginning and/or end of a job segment, or as many times as desired. The pages can also be built into a standalone print job and run on-demand at pre-defined intervals (start of every role, every shift, etc.) DocuVision software analyzes the Prime Page detects:

- Missing or Misdirected Jet Detection
- Color to Color Registration
- Head Alignment (Stitch Accuracy)
- Operator Visual Indicators

It’s all about the Data
For transactional documents or targeted personalized direct mail, verifying digital information can be critical for compliance and regulatory concerns. DocuVision’s powerful software algorithms include the following:

- MICR character inspection, recognition and quality
- Alpha-numeric and OCR text reading
- Barcode reading and verification - 1D, 2D and postal codes including Intelligent Mail Barcode (IMB)
- Front-to-back matching
- Sequence checking, missing and duplicate document identification
- Page registration measurement
- Optional Data and Image Archiving
DocuVision 12.0 System Specifications:

Software:
- Real-time Linux based OS
- DocuVision 12.0 software
- Version 12.3 or higher to run Prime Page
- Prime Page Generator Application

DocuVision’s Prime Page:
- Created using Videk Pattern Generator for each paper width
- Frequency: Inserted into the print stream at desired inspection interval

Hardware:
- Full Color, High-resolution imaging system
- Dimensions: put in actual dimensions
- Power Requirements: 120 VAC, 10A or 220VAC, 5A

Print Inspection Capabilities:
- Missing or Misdirected Jet Detection
  - Detection of continuous jet-outs of the CMYK+MICR print heads using refresh lines
  - Precision and configurable detection of jetting module failures
  - Brand Colors: Monitors color variations from target color
- Color to Color Registration
  - Measures and verifies registration of Cyan, Magenta, and Yellow relative to Black
  - Visual indicators to assist operator in making press adjustments
- Head Alignment (Stitch Accuracy)
  - Monitors individual print head alignment in the process and cross-process direction across all colors.
  - Visual Indicators assist operator in identifying head misalignment and magnitude

System Outputs:
- Printer Interface: Type I, 4710
- Communications Outputs:
  - RS-232 Serial Output
  - Videk Real Time Connectivity Architecture (RTCA) via 10/100BaseT Ethernet

Environmental:
- Operating Temperature 40 to 95 Degrees F (4 to 35 Degrees C)
- Humidity 30 to 90 percent RH

Agency Certifications:
- International Model: Safety & EMC: CE

User Interface:
- Simplified, Touch Screen Format
- Interface - Multi-Lingual Support
- Visual Warnings, Error Messaging
- Printer Stop (if desired)
- Freeze, Pan, Zoom and Replay Images

Error Notifications:
- Error Thresholds: Individually selectable for all inspections
- Alarm Modes: On-Screen Message, Alarm Light and Printer Stop (if selected)

Automated Inspection Capabilities:
- Variable Data (OCR, MICR), Sequence Checking, Print Registration, Streak
- Detection, Barcodes (2D, 1D, Postal), Presence/Absence Job, Front to Back
- Matching (application dependent), Summary Reports, Conditional Inspection, Image Archive and more.

Upgrade Packages:
- Full Roll Record/Playback
  - Image History of entire roll for immediate quality checking
- Image Archive
  - Transmit all images to external server for permanent storage
- Data Archive
  - Audit trail record of printing
- Perforation Inspection

System Integration Options

Web Transport Stand:
Co-engineered by Videk and EMT International, high-resolution line scan cameras and specific lighting components are mounted inside the transport and placed in-line between any continuous inkjet printer and the finishing modules, like rewinders or cutters and after the dynamic perforation equipment when the Perf Detection Option is selected.

Inside the Printer:
This option places cameras inside your printer to minimize footprint and reduce your investment. Exceptional for retrofit situations, it installs quickly to bring immediate value to your print operation. For more details, please request printer-specific datasheet.

Printer compatibility:
- Canon Océ JetStream™ ImageStream™
- Pitney Bowes AcceleJet™
- Hewlett Packard T-200, T-300, T-400™
- Ricoh: Pro VC60000™, IP5000
- Xerox® Impika™ Evolution, Compact
- Screen TruePress 520S, 520ZZ™, 520HD

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