DocuVision® 8600 VL

Color Print Inspection System for the KODAK VERSAMARK VL-Series

The DocuVision 8600 VL is a real-time print quality, variable content verification and image data management system for the Kodak Versamark VL-Series of high-speed color inkjet printing systems. The system combines a full color vision platform, powerful image analysis software, robust data management utilities, and an easy to use operator interface to deliver advanced automated image inspections and operator visibility to web production.

Critical Capabilities for Today's and Tomorrow's Data-Centric Applications

The 8600 VL is optimized for print service providers with data-driven TransPromo, High-Volume Transactional, Direct Marketing and On-Demand Publishing applications who need to ensure the accuracy, security and quality of every image, while managing accountability of variable information. Users are empowered with the most extensive suite of variable content inspection capabilities available including; color quality monitoring, reading and verification of barcodes, MICR and any other alpha-numeric information, as well as overall image quality analyses - all highly configurable to meet the unique requirements of your specific jobs.

Error detection parameters and response actions are both fully user definable, enabling the 8600 VL system to be configured to most effectively monitor your mission-critical criteria and manage outcomes appropriately – whether that means alerting an operator to error conditions in real-time, or interoperating with enterprise ADF systems to drive new production efficiencies.

Data for Smarter Digital Workflows

When combined with Videk's RECON Manager data collection and reporting utility, the 8600 VL system can collect and store data for detailed production reporting including job auditing & reconciliation, print quality statistics and productivity monitoring. This information can then be accessed locally, via a network, or fed into enterprise ADF platforms for enhanced operational intelligence.

Integration Options to Optimize the 8600 VL for Your Application Requirements

The 8600 VL is available as a turn-key, 4-camera modular system that is placed in-line at finishing, as well as a printer-embedded 2-camera configuration built directly into the VL's print engine. These options enable optimized cost and performance based on customer requirements.

The DocuVision 8600 VL enables capitalizing on the breakthrough communication capabilities of the Kodak Versamark VL-Series while assuring variable data accuracy and security, tracking critical production information and assuring zero-defect quality – leading to superior customer service and a competitive edge for your business.

Features:

- A complete production integrity assurance system, built specifically for interoperability with the Kodak Versamark VL-Series
- Real-time, automated variable content verification of every image for mission-critical data-driven applications to assure accuracy, security and process-ability
- Robust production reporting utility enables piece-level accountability of variable information, and connectivity to ADF systems enhanced digital workflow knowledge
- Intuitive operator web viewing tools - multi-function operator interface provides full-page document view-ability, with pan, zoom and image rewind functions
- Print job flexibility – configurable for simplex or duplex scanning, with full web width coverage
- Informative, highly visible error alerts including alarm light illumination and on-screen operator notification

DocuVision® 8600 JS

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Specifications:

Automated Inspection Capabilities

2D Bar Codes

Code Types	Data Matrix ECC200
Minimum Cell Size	0.020 inches square (0.51mm square)
Resulting Minimum Matrix Sizes	8 x 8: 0.200 inches square / 5.1mm square 10 x 10: 0.240 inches square / 6.1mm square 12 x 12: 0.280 inches square / 7.1mm square 16 x 16: 0.360 inches square / 9.1mm square
Quality Measurement	Score based on contrast, squareness and number of errors corrected during decoding.

Linear Bar Codes

Code Types	Code 25 (Interleaved or Non-Interleaved 2 of 5) Code 39 Code 128 UPCA EAN8 EAN13
Minimum Element Width	0.015 Inches / 0.4mm
Quality Measurement	Score based on percentage of barcode decodable

Postal Codes

Code Types	POSTNET PLANET Intelligent Mail Barcode (IMB), UPU ID Tag Australia Post
IMB Quality Measurement	Bar height, width, spacing Clear zone Check digit

OCR

Minimum Font Size	Printed at 300 dpi: 0.14 inches / 3.5mm (typically 10pt) Printed at 600 dpi: 0.11 inches / 2.8mm (typically 8pt)
Quality Measurement	Score based on similarity of character to pre-trained sample.

Streak Detection

No Clear Zone Requirement
Isolates CMYK color channels
Minimum Width: Adjustable
Minimum Length: Adjustable

Print Registration

Orientation: Vertical and/or Horizontal
Accuracy: 0.005 inches (.13mm)
Reference: Any pre-printed mark, character, graphic or web edge

Color Alignment

Measures relative registration of CMYK color planes

Color Correctness Inspection

System trained using master image
User adjustable acceptance criteria

Sequence Checking

Track sequential information and identify breaks in sequences

Presence / Absence

Determine presence or absence of text, logos or graphics

OMR Reading

Reads standard OMR codes

Conditional Inspection

Variable inspections based on page-type or content, within a continous variable layout print stream

Operator Interface Station

User Controls	Capabilities
Mouse Keyboard 19" Color Monitor	Menu-driven system navigation Pan and Zoom viewing functions Freeze frame image display Full-page image viewing Image history catalog and viewing

System Performance

Paper Speed	
Maximum Speed	492 feet / minute (150 meters / minute)
Scan Width	20.5 inches (520.7 mm)
Camera Resolution	2048 pixels / inch
System Outputs	
Printer Interface	Type I, 4710
Communications Outputs	RS-232 Serial Output Videk Real Time Connectivity Architecture (RTCA) via 10/100BaseT Ethernet

Power Requirements	
North American Model	110-120VAC, 50/60 Hz, 10 Amps
International Model	220VAC, 50/60 Hz, 5 Amps
Environmental	
Operating Temperature	40 to 95 Degrees F (4 to 35 Degrees C)
Humidity	30 to 90 percent RH
Agency Certifications	
North American Model:	Safety: UL/CSA, EMC: FCC
International Model:	Safety & EMC: CE

Preliminary