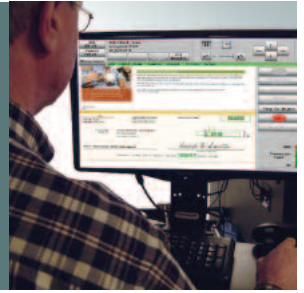


DocuVision[®] Solutions

Web Inspection Cameras for
Océ ColorStream[®] Series Inkjet Printers



DocuVision Solutions for Océ ColorStream Inkjet Printers series provide the user with real-time print quality feedback, variable content verification and image data management. They combine a full color vision system, powerful image analysis software, robust data management utilities and an easy to use operator interface. This scalable, modular solution is designed specifically for integration with Océ ColorStream 3000 Series products.

DocuVision Display: Available option for Océ ColorStream 3000 Series inkjet system

In-Process Document Viewing and Jet Out Detection

Operator Interface

- View full page document image
- Live pan + zoom view of the web during production
- Virtual “pause” of the web
- Selective document image record/playback
- Critical enabler for high-speed, inside the print engine operation

Embedded design - “under the hood”

- No additional footprint
- Printer stop interface

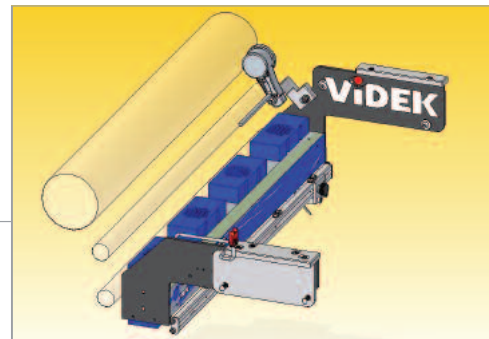
Jet Out Detection

- Periodic test pattern detects individual non-functioning jets, or adjacent jets are detected by using the spit bar
- Ensures document integrity and high-quality output

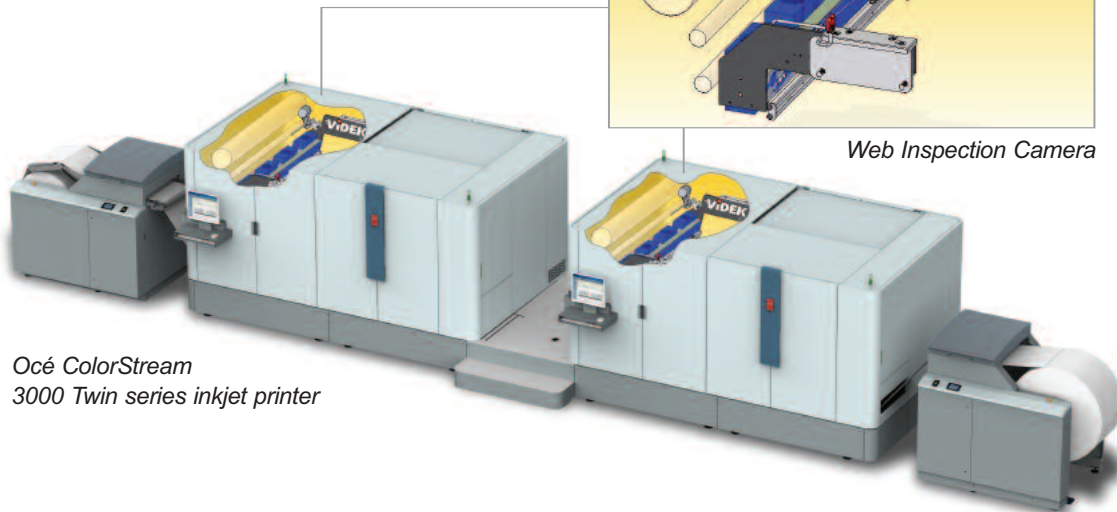
DocuVision Inspect: Automated Document Inspection

DocuVision Display functions, plus

- OCR, 1D & 2D code reading (for Document I.D., Account Number, Dollar Value, etc.)
- MICR character shape analysis
- Print alignment and other document attributes
- Monitor color consistency
- Streak detection - Isolates CMYK channels
- Sequence check



Web Inspection Camera



Océ ColorStream
3000 Twin series inkjet printer

Highlights

- A fully integrated production integrity assurance system, built specifically for interoperability with the Océ ColorStream Series inkjet printer
- Intuitive operator web viewing tools - multi-function operator interface provides full-page document view ability, with pan, zoom and image rewind functions
- Highly visible on-screen operator error notification
- Optional, real-time, automated variable content verification of every image for mission-critical data-driven applications to assure accuracy, security and process compliance
- Optional, robust production reporting utility enables piece-level accountability of variable information, and connectivity to Océ PRISMA[®] software or other ADF solutions for enhanced digital workflow knowledge



DocuVision® Solutions

Color Print Inspection System for the Océ ColorStream® Series Inkjet Printer

Specifications:

Automated Inspection Capabilities				
2D Bar Codes		Linear Bar Codes		
Code Types	Data Matrix ECC200	Code Types	Code 25 (Interleaved or Non-Interleaved 2 of 5) Code 39 Code 128 UPCA EAN8 EAN13	
Minimum Cell Size	0.020 inches square (0.51mm square)	Minimum Element Width	0.015 Inches / 0.4mm	
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 percentage of barcode decodable	
Quality Measurement	Score based on contrast, squareness and number of errors corrected during decoding.			
Postal Codes		OCR		
Code Types	Intelligent Mail Barcode (IMB) POSTNET PLANET UPU ID Tag Australia Post	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)	
IMB Quality Measurement	Bar height, width, spacing Clear zone Check digit	Quality Measurement	Score based on similarity of character to pre-trained sample.	
Void Detection	Streak Detection	Print Registration	Print Alignment	Color Consistency
Detect jet-outs – singles & clusters (requires periodic print of test pattern)	No Clear Zone Requirement Isolates CMYK color channels Adjustable tolerances for streak width & length	Orientation: Vertical and/or Horizontal Accuracy: 0.005 inches (.13mm) Reference: Any pre-printed mark, character, graphic or web edge	Relative registration of CMYK color planes	System trained using master image User adjustable acceptance criteria
Sequence Checking	Presence / Absence	OMR Reading	Conditional Inspection	
Track sequential information and identify breaks in sequences	Determine presence or absence of text, logos or graphics	Reads standard OMR codes	Variable inspections based on page-type or content, within a continuous variable layout print stream	
Operator Interface Station				
User Controls	Capabilities			
Mouse	Menu-driven system navigation	Full roll record/playback (option)		
Keyboard	Pan and Zoom viewing functions	Data archive/audit trail (option)		
Touchscreen Monitor	Freeze frame image display Full-page image viewing	Image archive (option)		
System Performance				
Paper Speed	417 feet / minute (127 meters / minute)		Power Requirements	
Scan Width	21.5 inches (546 mm) Duplex		North American Model	110-120VAC, 50/60 Hz, 10 Amps
System Outputs			International Model	220VAC, 50/60 Hz, 5 Amps
Printer Interface	Type I		Environmental	
Communications Outputs	RS-232 Serial Output Videk Real Time Connectivity Architecture (RTCA) via 10/100BaseT Ethernet		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
Upgrade Packages				
Full Roll Record/Playback	Image Archive	Data Archive	DocuVision Upgrade Kit	Stand Alone Transport
Image History of entire roll for immediate quality checking Available for both DocuVision Display & DocuVision Inspect systems	Transmit all images to external server for permanent storage Available for DocuVision Inspect only	Audit trail record of printing Available for DocuVision Inspect only	Field upgrade system for DocuVision Display users adds the functionality of DocuVision Inspect	Front-to-Back match verification Perforation verification option