

# DocuVision® Solutions

Web Inspection Cameras for Océ JetStream® Inkjet Family



DocuVision Solutions for the Océ JetStream inkjet family 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 JetStream inkjet products.

## DocuVision Display:

Default option on every Océ JetStream Inkjet Press

### In-Process Document Viewing and Jet Out Void 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, roll-to-roll operation

#### Embedded design - “under the hood”

- No additional footprint
- Printer stop interface

#### Jet Out Void Detection

- Periodic test pattern detects individual non-functioning jets
- 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 check (optical)
- Print registration and other document attributes
- Monitor color consistency
- Streak detection - Isolates CMYK channels
- Sequence check

## Upgrade Packages

### Full Roll Record/Playback

- Full Image History of entire roll for immediate quality checking
- Available for both DocuVision Display & DocuVision Inspect systems

### Image Archive

- Transmit all images to external server for permanent storage
- Available for DocuVision Inspect only

### Data Archive

- Audit trail record of printing
- Available for DocuVision Inspect only

### DocuVision Upgrade Kit

- Field upgrade system for DocuVision Display users adds the functionality of DocuVision Inspect

### Stand Alone Transport

- Front-to-Back match verification
- Perforation verification option



## Highlights

- A fully integrated production integrity assurance system, built specifically for interoperability with the Océ JetStream inkjet family
- 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 JetStream® Inkjet Family

### 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)<br>Code 39<br>Code 128<br>UPCA<br>EAN8<br>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<br>10 x 10: 0.240 inches square / 6.1mm square<br>12 x 12: 0.280 inches square / 7.1mm square<br>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   | POSTNET<br>PLANET<br>Intelligent Mail Barcode (IMB), UPU ID Tag<br>Australia Post  | Minimum Font Size  | Printed at 300 dpi: 0.14 inches / 3.5mm (typically 10pt)<br>Printed at 600 dpi: 0.11 inches / 2.8mm (typically 8pt) |  |
| IMB Quality Measurement  | Bar height, width, spacing<br>Clear zone<br>Check digit  | Quality Measurement  | Score based on similarity of character to pre-trained sample.   |  |
| Void Detection   | Streak Detection   | Print Registration   | Color Alignment   | Color Correctness Inspection   |
| Detect jet-outs – singles & clusters (requires periodic print of test pattern) | No Clear Zone Requirement<br>Isolates CMYK color channels<br>Adjustable tolerances for streak width & length   | Orientation: Vertical and/or Horizontal<br>Accuracy: 0.005 inches (.13mm)<br>Reference: Any pre-printed mark, character, graphic or web edge | Relative registration of CMYK color planes  | System trained using master image<br>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<br>Full-page image viewing  | Image archive (option)   |   |  |
| System Performance   |  |  |   |  |
| <b>Paper Speed</b>   | 656 feet / minute (200 meters / minute)  |  | <b>Power Requirements</b>   |  |
| <b>Scan Width</b>  | 20.5 inches (520.7 mm)   |  | North American Model  | 110-120VAC, 50/60 Hz, 10 Amps  |
| <b>System Outputs</b>  |  |  | International Model   | 220VAC, 50/60 Hz, 5 Amps   |
| Printer Interface  | Type I   | <b>Environmental</b>   |   |  |
| Communications Outputs   | RS-232 Serial Output<br>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   |  |
|  |  | <b>Agency Certifications</b>   |   |  |
|  |  | North American Model:  | Safety: UL/CSA, EMC: FCC  |  |
|  |  | International Model:   | Safety & EMC: CE  |  |