

PrintVision

Jupiter

Advanced Print Process Control Solution
for Automatic Defect Detection



Folding carton



Labels



Packaging



Commercial



Newspaper



Advanced Vision Technology

Catch it before you get caught!

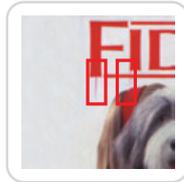
Process Control reduces printing waste by detecting printing defects before they are seen by the human eye and before they become costly waste. Featuring very high sensitivity, process control solutions ensure early warning of process defects that are building up.

Every defect, every time it occurs

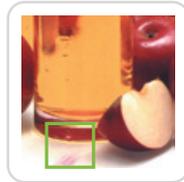
The moment a defect is detected, the relevant image of the printed area is displayed on the screen and the alert switches on. All defects are marked and classified as to advanced detection algorithms, per defect type. The system enables precise control of the defects' sensitivities, saving them to libraries for future use assuring printing consistency: same job in different runs. This high detectability is achieved with very low false alarm rate.



Color



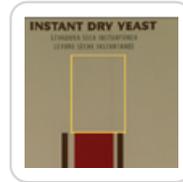
Streaks



Miss-registration



Spots Splashes



Hazing



Barcode

And many more...

PrintVision Jupiter

PrintVision/Jupiter introduces advanced automatic inspection platform with complete print process control. It identifies print defects before seen by the human eye and immediately alerts the press operator. Its operation is easy to use incorporating intuitive human interface. The system supports all press types and models, supports most types of substrates and enables

wide range of added-value modules. This unique platform deploys advanced innovative technologies developed expressly to meet growing customer demands to arrive at high quality production at higher speed.

PrintVision/Jupiter, with its Advanced Automatic Inspection software modules draws on the field-proven experience of industry leader, AVT.



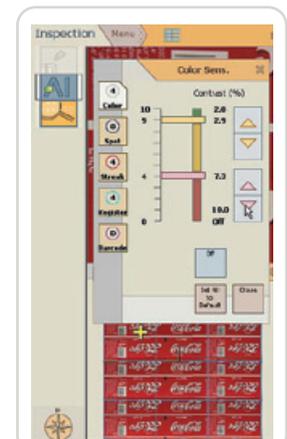
On Press operation in diverse applications

AVT process control platforms are applicable to every form of continuous web printing, including Gravure, Flexo and Offset presses for diverse applications. PrintVision/Jupiter is the ultimate solution for automatic print inspection. The system detects defects on most types of materials, including paper, foils and flexible translucent or opaque films.

Just what you need how you need it

PrintVision/Jupiter allows operators to define independent thresholds for specific printing defect types, enabling the system to be precisely tailored to the print quality specifications of a particular application or job. Its intuitive workflow, wizard based operation leads to very short setup time of less than 30 seconds. The system is Easy to install, Easy to learn and Easy to use.

Defect Sensitivities



Per defect type Per job

Quick and to the point

PrintVision/Jupiter's software module introduces advanced Automatic Inspection capabilities and tools, while presenting simplified step-by-step guided setup and intuitive control.

PrintVision/Jupiter platform is automated, helping you to assure an efficient and optimal operation and maintain the standards you specify.

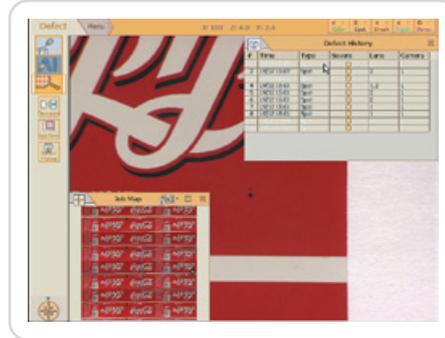
PrintVision/Jupiter is designed to make the interaction as simple, short and effective as possible.

Job Map

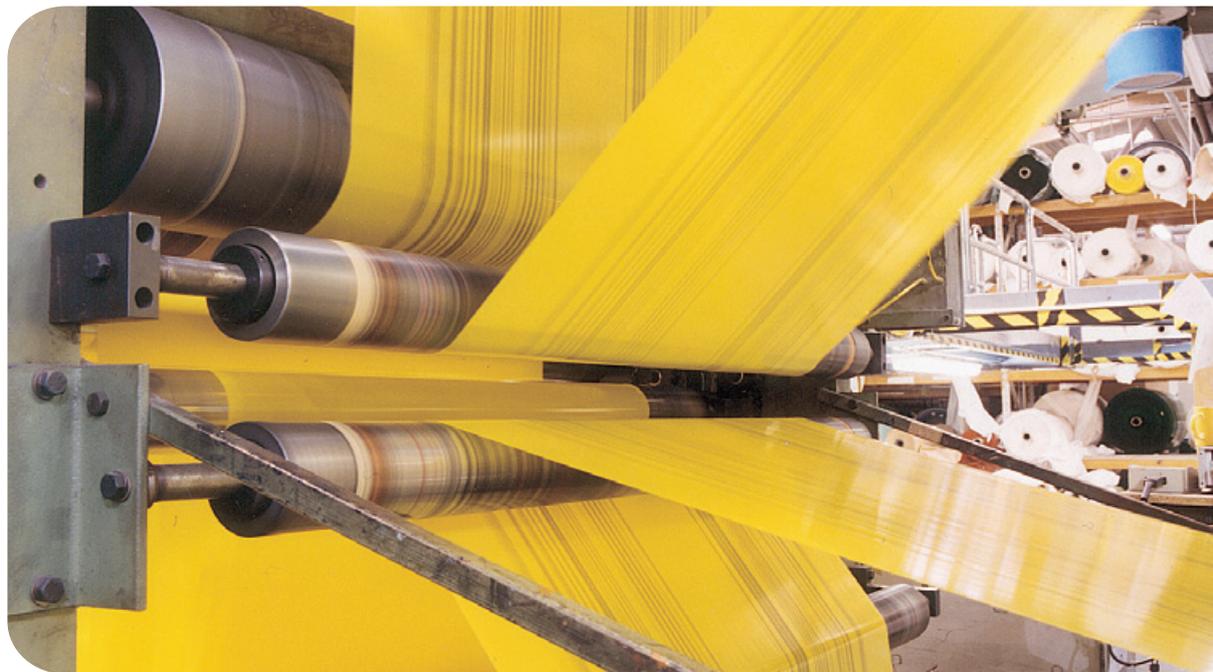
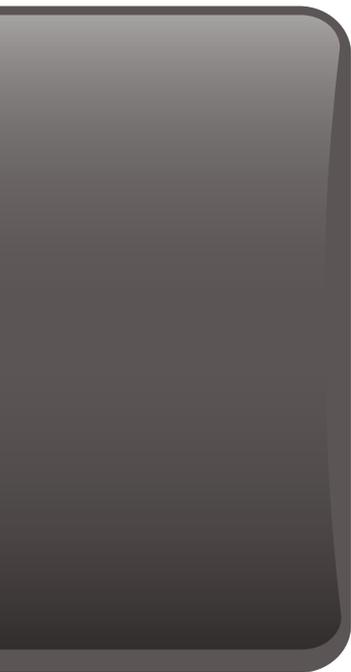


for faster set up and camera movements

Defect History

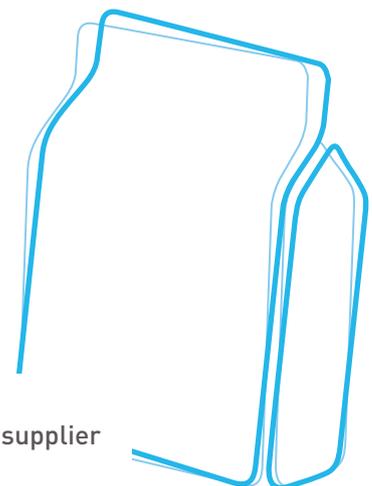


in-line snapshots of the latest defects



Key Benefits:

- Radically reduces waste
- Enables higher press speed
- Eliminates customer rejections
- Significantly boosts productivity
- Consistently delivers high print quality
- Speeds up time-to-market
- Meets customer expectations time after time to become a preferred supplier
- Adaptable to your current and future needs



A Mission of Excellence

Advanced Vision Technology (AVT) is dedicated to delivering proprietary technology solutions to meet the key challenges of the printing industry. AVT is developing breakthrough integrated solutions for improving print quality via on-line automatic monitoring, inspection, alert and other vision-based press controls.

It draws on the experience gathered through hundreds of installations worldwide, a continuous dialogue with printers and the best R&D team in the industry. In both hardware and its advanced software modules, the PrintVision/Jupiter is the most advanced solution in the inspection and process control class.

Keep Adding Advantages

PrintVision/Jupiter can be expanded to advanced modules that can be easily and cost-effectively upgraded to meet your highest standards:

pRegister: Automatic register pre-setting and control for CI Flexo presses

Presco: Plate & Anilox Pressure Control

iReg: Semi-automatic registration make-ready for CI Flexo using any existing printed element on the web, providing tremendous material savings: Press in register in about 50m (150 ft.)

ABC✓: Automatic Barcode Verification Module assuring in-line quality as per ANSI & CEN standards, including GS1-128 types

PrintFlow: Reporting and archiving module for future analysis of detected defects

RiteSeal and Front to Back Registration Monitoring: A solution for cold seal registration monitoring and or deviation presentation

Dual side inspection:

- Dual side inspection of both sides of printed substrate, by two Optical Heads
- Viewing capabilities of both sides of the printed material simultaneously

ΔEal: In-line ΔE color measurements and defect detection ensuring color consistency along the run, and in repeating jobs

SpectraLab: Inline absolute color and density measurement providing outright L*a*b* values as in off line spectrophotometer

RLM: Inline Repeat Length Monitoring and reporting module presenting package repeat length deviations throughout the printed job

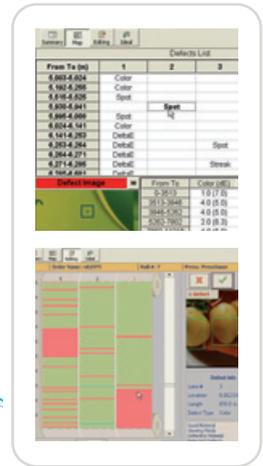
Sensitivity Profiles: saving the sensitivities of each job for the next similar job run, to shorten sensitivities set up time and to create uniformity between the operators

Semi-automatic sensitivity setting: modifying the alarm level of any sensitivity type during inspection process

PrintVision/Argus: an upgrade of the **PrintVision/Jupiter** to a unified system enabling process control and quality assurance (full web inspection) capabilities;

WFL: Work Flow Link uses the print quality information generated by PrintVision/Argus to control the re-winder and stop it automatically in the right position, enabling efficient removal of defective material

AVT's new PrintVision solutions raise a new standard of excellence and make it achievable and affordable!



PrintFlow roll report display



Industrial Cabinet



Print inspection and color control solutions

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