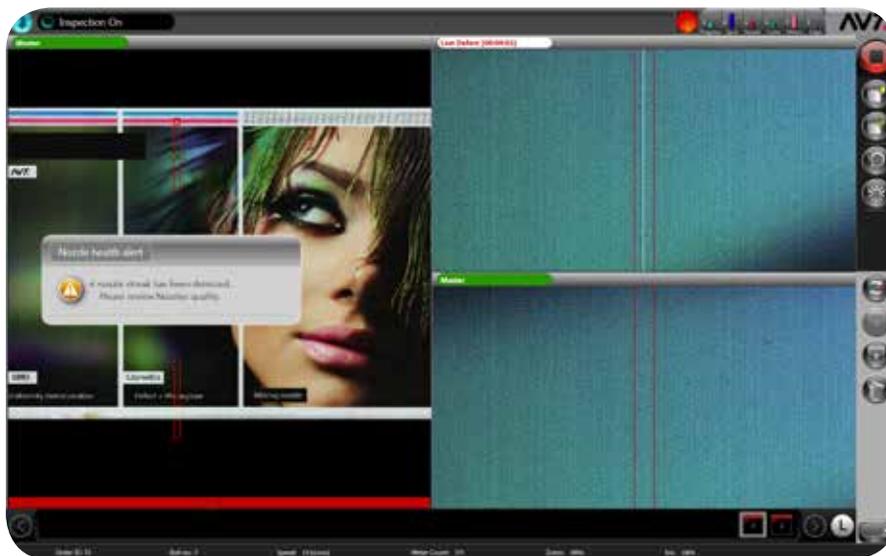


# Helios D

## Advanced 100% Automatic Inspection Solution for Labels & Narrow Web Digital Printing

Based on AVT's trusted, market-proven Helios product line, AVT Helios D is a superior automatic 100% print inspection solution designed exclusively to meet the needs of the labels and narrow web digital printing. Helios D supports every stage in the digital production workflow, starting with missing nozzle detection in the printing stage, to comprehensive print quality and process control.



## Uniquely Tailored to Support Digital Printing Needs

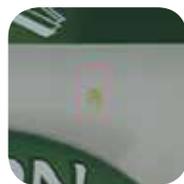
Easily installed on any digital press, Helios D immediately identifies defects, such as missing nozzles, spots, substrate damages and color changes as soon as they occur. The process effectively reduces waste, enhances production performance and over time, provides comprehensive inkjet print head status monitoring. Further, Helios D is designed to work seamlessly on any application and substrate – from food and beverages to pharmaceuticals, label stock to transparent film, or on any highly-reflective foil.



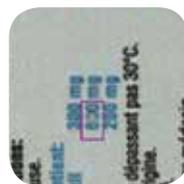
Missing nozzles



Color



Spots



Text



Mis-registration



## Robust Inspection Algorithms

Designed exclusively for the digital printing market, Helios D is equipped with advanced algorithms to detect specific digital defects, including missing/deviating nozzles, non-uniform colors and ink dripping on top of other common print defects, such as Die-cut register and Matrix removal problems.

## Seamlessly Connected to Your Workflow

With fast and easy automated setup time of one minute or less, clear and concise pop-up messages and smart alerts, Helios D allows operators to take immediate action once a defect starts, resulting in significant waste reduction.

## Built-in Archiving and Reporting

Equipped with a built-in PrintFlow module, Helios D efficiently handles all data archiving and reporting, including detailed information about the status of the inkjet print heads.

## Calibration Target

A dedicated solution for the press maintenance and quality check processes, resulting in reduced setup time, minimized waste and overprints. By using a single, conjoint target, the operator can detect and eliminate quality problems before they occur and before the run. The special AVT target provides the operators full analysis regarding all quality parameters, saves time (compare to manual quality check processes), increases total print quality and reduces waste.

### The Calibration target contains:

- Nozzle status
- Changes in color uniformity
- Print to substrate alignment
- Color-to-color registration
- Text & details quality

## Value-Added Modules (Optional)

Helios D offers a wide range of optional, add-on modules that enable the system to meet and exceed customers ever-growing needs and requirements.

### JobRef

Enables verification at the set-up stage by automatically comparing the job to the original, customer-approved digital PDF file.

### Offline Setup

Remotely prepare jobs for inspection, based on digital PDF. Save valuable time on press and ensure quality standards.

### IDeal

In-line Delta E color measurements anywhere on the image, performed during and in parallel to print inspection, displays graphical view of color differences and reports statistics.

### RLT (Repeat Length Trend)

Enables monitoring/alerts on repeat trend changes.

### Barcode & Variable Data Verification

100% verification of 1D/2D variable barcodes, including readable human codes; all codes are inspected/verified against a database, alerting on readability, quality, missing codes, duplications and sequence.

### Reflective Support

Enables inspection/detection of defects on all reflective materials and inks; maintaining the same high quality standards for diffusive/reflective parts.

### Clear-on-Clear

Enables easy/accurate defect detection deploying a unique backlight mechanism to illuminate transparent/semi-transparent web.

\*Additional value added modules can be found in the Helios product line brochure

AVT LTD.  
6 Hanagar St. P.O.B. 7295  
Hod-Hasharon 45241 Israel  
Tel. +972 9 761 4444  
Fax. +972 9 761 4555

AVT EMEA  
Generaal Dewittelaan 9 Bus 3  
2800 Mechelen, Belgium  
Tel. + 32 15 56 0380  
Fax: + 32 15 55 3997

AVT INC.  
8601 Dunwoody Place  
Bldg 100 Suite 100  
Sandy Springs, GA 30350, USA  
Tel. +1 770 541 9780  
Fax. +1 770 541 9342

AVT Asia Pacific  
6 Hanagar St. P.O.B. 7295  
Hod-Hasharon 45241 Israel  
Tel. + 972 9 761 4572  
Fax. + 972 9 761 4501

AVT China (rep. office)  
Room 808B,  
Building No. 555  
Nanjing Xilu  
Shanghai 200041, China

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The Printer's Choice |

