

HELIOS: 100% Web Inspection System

Remove your risk, reduce your expense, and assure your quality



HELIOS: Overview

Manufacturers all over the world are increasingly turning to automated inspection as a powerful means to improve the efficiency of their lines.

The Helios system is a true 100% web inspection system which inspects 100% of the web, 100% of the time.

Helios is standards based fully scalable system allowing web widths, resolutions, and speeds to suit almost any application. Utilizing the latest in LED technology to provide uniform lighting, Helios is able to scrutinize very subtle changes in the web. Vast experience, innovative ideas, and a close relationship with our customers has led to the design of the Helios system.

Designed for 'drop-in' installation onto an existing web, Helios provides inspection and recognition of defects at production speeds. The system guarantees reliable and consistent inspection over the entire web, improving reactivity, and providing traceability of upstream process opportunities by identifying issues on-line.

It's powerful capabilities make it the system of choice for printers who work with the pharmaceutical, tobacco, food, medical and other quality conscious clients.

"We're amazed by how easy the system is to operate; especially the way in which the history of flagged print can be effortlessly reviewed whilst the system is still online .. The support from VMV has been great and I appreciate their ability to accommodate our production needs while commissioning the system."

Wayne Rogers
Works Manager
Confoil

"The system improved our output by 15% due to a reduction in waste and improved reactivity "

Paul Benporath
Print Supervisor

CRYSTAL CLEAR BENEFITS

- Non stop 100% inspection
- Less rejects and customer claims
- Improved productivity and process control
- Early warning for preventative maintenance
- Simple set-up
- Easy to retrofit
- Extensive reporting tools



HELIOS: 100% Web Inspection System

Remove your risk, reduce your expense, and assure your quality

FEATURES AND BENEFITS :

Comprehensive reporting: The Helios system provides real-time statistical data (reports, charts, graphics, etc.) to support the analysis of production efficiency. Roll reports are generated automatically and are readily exported to a thumb drive, accessed across a network, or printed to a local or remote printer.

Drop-in or Custom-fit : Our systems can be designed for 'drop-in' installation or custom-fit to existing machines with no or minimal disruption to production.

Complete traceability: Our software provides complete traceability including an extensive history interface. Images of every identified defect are stored along with date, time, defect category, defect severity, action taken, etc. This history can be reviewed at any time (even whilst the system is on-line) giving the operator the tools to quickly take action as necessary.

Scalable and Modular: The scalable and modular nature of our systems means that they can be readily designed to suit almost any application. The use of standard components improves reliability and simplifies maintenance.

Dynamic lighting system: Our systems utilize state-of-the-art LED technology to provide very uniform and consistent lighting which is long lasting, and does not gradually change over time like other lighting systems. This guarantees repeatability in the inspection and aids in the detection of very subtle defects.

User-friendly operator interface : Our operator interface design is the culmination of years of close consultation with our customers, and the innovative ideas of our talented software engineers. With the perfect balance of powerful features and user-friendly intuitive operation, our software allows operators to focus on their job, rather than waste time 'baby-sitting' a new piece of equipment.

Options: Whatever your requirements - share your ideas, and we will provide you with a solution that meets your needs.. VMV can help you select the components that meet your specific requirements, from basic inspection through to a closed end solution. VMV can also develop a solution to detect specific defect types.

REPORTING

- Helios provides a variety of reports including totals produced, rejects by hour and/or category.
- Images of rejected products overlaid with reject information.
- Reports enable the performance of the printing to be monitored and improved during their life-cycle
- Reports are built on top of enterprise databases.
- Reports can be connected to shop floor displays for complete factory visibility.

VMV LIFE CYCLE SUPPORT

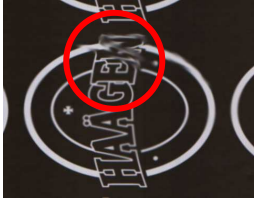
- Installation and Commissioning
- Training
- Technical Support
- Spare Parts and repairs
- Preventative Maintenance Services
- Migration and Retrofits



HELIOS: 100% Web Inspection System

Remove your risk, reduce your expense, and assure your quality

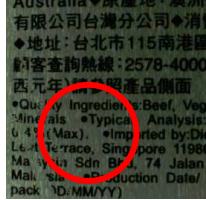
Typical Print Defects Detected:



Smudges



Blobs



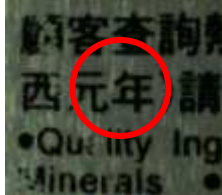
Text Defects



Streaks



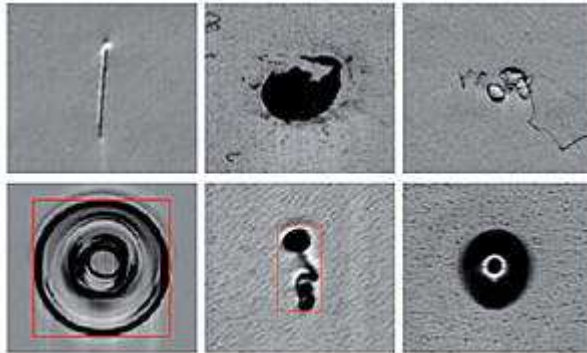
Mis-registration



Faded Print

Typical Web Defects Detected:

- Contaminants
- Gels
- Inclusions
- Holes
- Scratches
- Streaks
- Bubbles
- Coating Voids
- Stains
- Dirt
- Wrinkles
- Tears
- And more...



SPECIFICATIONS

Environment:

- 0-45°C (32-113°F), Up to 90% Relative Humidity, Non-Condensing

Power:

- 120 or 230 VAC

Communications:

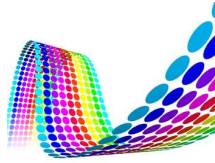
- Digital I/O – Discrete, Optically Isolated 8 Inputs, and 16 Outputs
- Optional – Extended Configurable I/O
- Optional – Full Remote Operation via Internet Connection



VMV - COMPANY PROFILE

Web Inspection

(paper, metals, non-wovens, glass fiber mat)



Print Inspection

(fine print, newsprint, coated and uncoated)



Colour Sorters

High speed colour sorters for the food industry



Retortable plastic and aluminium packaging

(ready meals, baby food, Pet foods, pates, sauces, soups, fruits ...)



Retortable Pouches

(sauces, soups, fruits, ...)



Closures

(Plastic caps and closures)



VMV is a leading developer and manufacturer of powerful performance proven vision inspection solutions that allow industry to improve their performance, productivity, and bottom line results. With solutions deployed around the globe, VMV has the expertise needed to make your system a success.

Our professional staff includes highly skilled and experienced software, electrical, and mechanical engineers, technical staff, and in-house design / drafting. We also have in-house manufacturing and prototyping facilities which allow us to rapidly develop unique solutions to complex problems.

With a high level of technical expertise, the ability to work closely with our clients, and a focus on support, we offer solutions that provide consistent performance and objective standards. Furthermore, we are able to implement such systems quickly, reliably, and within budget.

Contact us to find out how we can help you.

Melbourne (Head Office)
3/25 Howleys Road
Notting Hill, VIC, 3168.
Ph: (03) 9543 1114
Fax: (03) 9543 2202
Email: sales@vmv.com.au

Sydney
Ph: 0458-251-735
Email: sales@vmv.com.au

