



**Discovery PQ is the latest generation of Print Quality Inspections Solutions from Lake Image Systems. Featuring high resolution Line Scan cameras, Discovery PQ can acquire large format images of a continuous web for multiple, simultaneous, print quality and integrity inspections.**

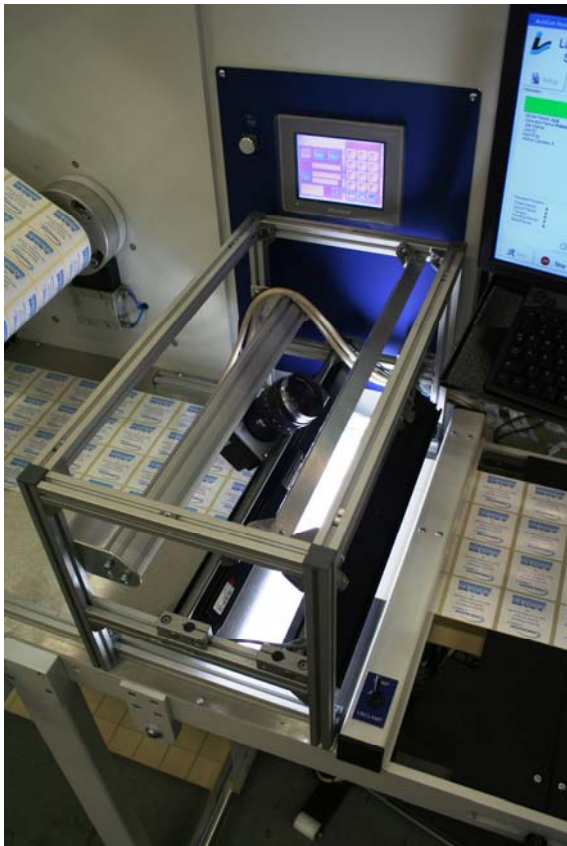
### Discovery PQ: Line Scan Technology

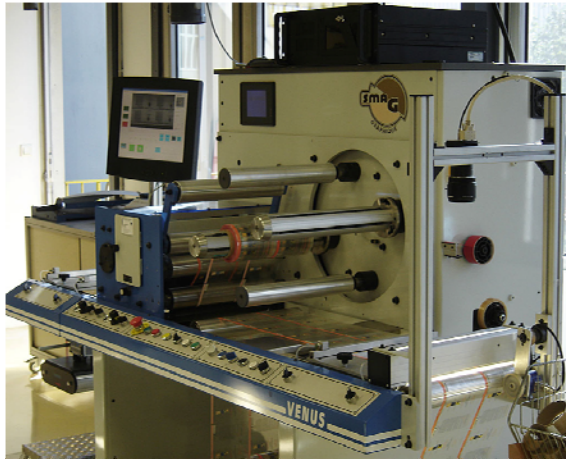
The line scan camera is capable of imaging an entire web for continuous printing applications. Unlike area scan cameras which capture a specific area of a document with one snapshot, line scan cameras have a single line array of sensors which process a target moving underneath the camera and build the image one entire line at a time.

**Discovery PQ** can acquire high resolution images of up to 6000 pixels wide at speeds up to 300m/min on all presses, narrow web label presses and rewinders.

### Print Quality Assured

- Discovery PQ immediately identifies print defects such as streaks and voids
- Alarms notify operators of defective print in real time. User defined tolerances stop false alarms
- Defect map gives coordinates and images of faults within a printed reel for easy identification and removal of defective print
- Quick return on investment. Run-on print is automatically calculated, preventing costly re-work and setup.
- Comprehensive reporting module for job and print run data assists job scheduling, productivity and quality assurance
- Simple user interface with touch screen operation
- Retrofittable installation to presses and rewinders: Enhance the performance of your existing equipment.
- Web stability frame, web guide and path rollers available when necessary.





Discovery PQ is ideal for web and re-winder applications, where print quality verification is paramount.

### Inspect & Display

- Foils
- Clear Films
- Flexible Packaging
- Variable Printing
- Labels, Cards & Tickets

## Input Devices

**Line Scan Cameras** 2K, 4K or 6K Line Scan  
Colour and B&W

**Triggering** High resolution encoder

## Processor/ Interface

**Operating System** Windows™ XP

**Processor** Intel Pentium IV

**Process Time** In excess of 300m/min

**Chassis** Standard PC or Industrial Rack (IP54 rated)  
Power 110-230VAC

**Approvals** CE/UL Certified

**Interface** Touch Screen Monitor

(Discovery PQ is configured with standard, secure network interface for remote service and support)

## Outputs

**Digital Outputs** Fully configurable, opto-isolated digital output lines

## Integration Hardware

**On Press** Standard press mounting kits

**Rewinders** Web stability frame, web guide and path rollers available when necessary

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