



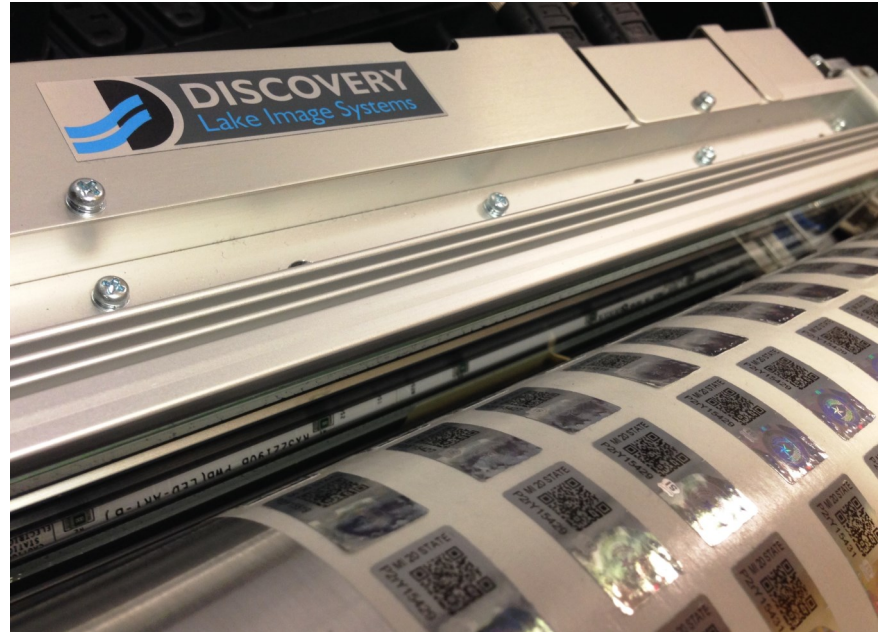
DISCOVERY MaxScan: contact scanning technology for high resolution print inspection

Unlike standard camera technology, the new Discovery MaxScan provides a true 600DPI resolution for print inspection applications at web or sheet widths up to 929mm(36"). This can match or exceed the resolution of most print engines enabling a variety of inspection functions including missing or blocked jets using the full Discovery MultiScan toolset. In addition MaxScan provides full colour images with excellent colour representation and repeatability.

MaxScans Linear Contact Scanner has a working distance of just 12mm (1/2"). With a maximum headroom requirement of less than 130mm(5") the Discovery MaxScan is perfect for integration within the transport system of a press, without the need for additional rollers, redesigned web paths, large working distances or complex optical assemblies typical with standard camera inspection technologies.

A major advantage is its ability to provide consistent and reflection free images of holograms and foils. This is a significant challenge for camera based inspection technology where each hologram in a row or lane can appear different within the inspection image based on its location relative to the camera position. MaxScan overcomes this optical phenomenon, allowing the implementation of powerful inspection functionality to guarantee the quality and integrity of even the most challenging substrates.

Our MultiScan Manager pulls together the images and data from a wide variety of cameras, including the new MaxScan contact scanners, and enables the implementation of any number of Discovery software tools to read, control, inspect, verify, log, track and report – providing 100% quality inspection and print data integrity.



- True 600DPI resolution
- Full colour imaging, with excellent repeatability, low signal to noise and high dynamic range
- Widths: 309mm(12"), 619mm(24") or 929mm(36")
- Low profile integration (headroom less than 130mm)

PERFORMANCE:

Colour:	55m/min at 600 x 600 DPI
	110m/min at 600 x 300DPI
Monochrome:	110m/min at 600 x 600 DPI
	220m/min at 600 x 300DPI

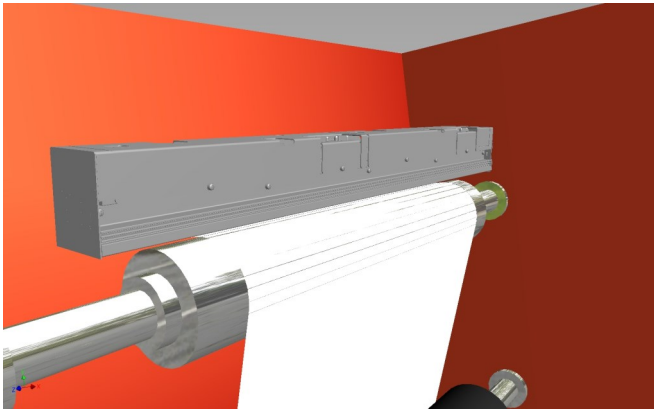
Proven Installations

- Digital presses
- Narrow web presses
- Inkjet bases



Discovery MultiScan is the latest generation of Print and Mail Integrity Solutions from Lake Image Systems. Based on our new Discovery platform it leads the way in performance, ease of use and flexibility.

Capable of a wide range of inspection and control functionality Discovery can satisfy applications from variable print data integrity to colour print quality. Discovery's flexible and open design architecture enables Lake Image to continually introduce an ever growing range of camera and scanner technologies, such as MaxScan, providing our customers with the highest performance, most scalable print inspection technology on the market.



Discovery MaxScan showing typical integration

Read

- OCR (Optical Character Recognition)
- Barcode
- 2D, QR Code, PDF417
- Postal Barcodes
- OMR

Inspect

- Missing/blocked jets
- Print quality, streak, hickies, voids
- Print registration targets
- Zoom and Zoom sequence for operator web monitoring

Control

- Matching print images (duplex)
- Variable data integrity

Verify

- Correct sequencing
- Print File reconciliation
- Identify duplicate and missing pieces

Log and Report

- 100% Proof of printing
- Operator / job / production data
- Full networked reporting

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