

Powerful Solutions for Variable Data Integrity
and Print Quality Inspection Applications



Lake Image Systems is a world leader in the design, development and manufacture of imaging and scanning technologies for the worlds printing, labelling, packaging and mailing industries.

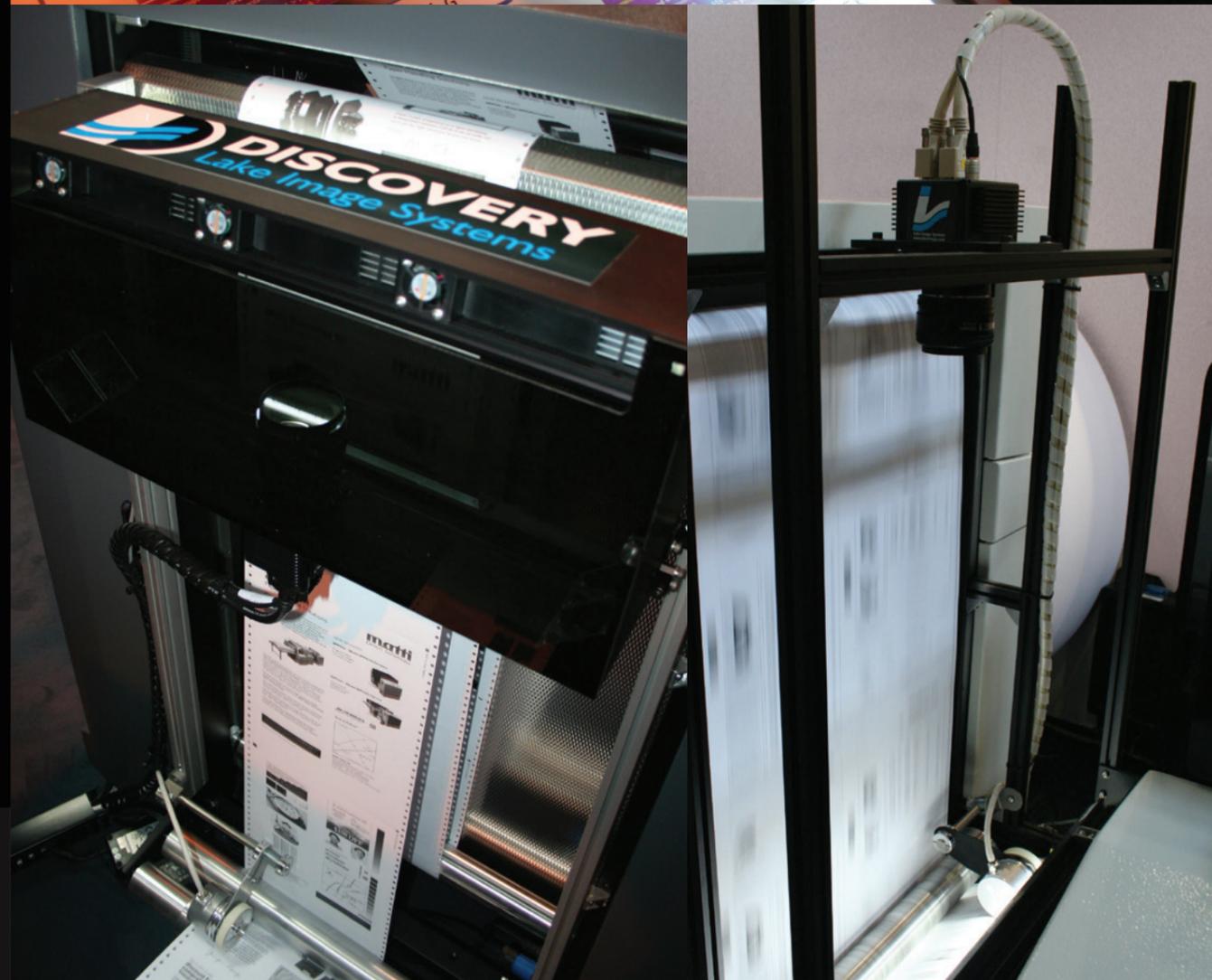
By reading and processing the variable data now commonplace on many printed items our systems inspect, verify, track and report on millions of documents, printed pieces, plastic cards and packages daily using codes such as OCR, barcodes, 2D and QR codes, postal barcodes and many more.

Our products have given document integrity and variable print quality confidence to our customers for 20 years, optimising their processes, enhancing their product quality and increasing their profitability.

By working closely with our clients we continually optimise the value of our solutions, with a strong focus on the environment and processes that our technologies will influence.

Established in the UK in 1994, Lake Image has grown to become a global leader, with direct sales and service operations in Europe, North America and Asia.

20
YEARS
of VISION
1994-2014



- 1994** Lake Image Systems is established to provide camera based verification solutions for the European printing and document processing marketplace.
The first PerfectMatch solution for 100% automated mailpiece/plastic card verification is installed in the UK.
- 1996** MaxRead integrated camera modules are launched; a breakthrough for service and ease of use in the machine vision arena.
- 1998** Operations move to a new manufacturing facility and achieve ISO9000:1994 accreditation. Lake Image Systems Inc. is incorporated in Fairport, N.Y.
- 2001** The first generation of the new IntegraVision product suite is launched, providing comprehensive integrity verification and reporting on a Windows platform.
- 2003** The Company's Quality Management System is updated and certified to the new ISO9001:2000 standard.
- 2005** New development, manufacturing and service facilities are opened in both the US and UK.
- 2006** Now capable of managing twelve cameras per system the company completes its largest project, with over eighty cameras installed at a single site.
IntegraScan is launched globally at IPEX 06, taking the IntegraVision product range to the continuous and narrow web printing markets.
- 2007** Lake Image Systems France is established to support growth into Continental Europe.
The first IntegraVision Server system is installed for enterprise wide document tracking and integrity.
- 2008** Lake Image Systems Asia is established to support a growing network of distributors throughout the Asia, Far-East and Australian territories.
- 2009** The largest single installation is completed in Malaysia, featuring a powerful IntegraVision Server, capable of tracking multiple unique jobs across an entire print and finishing facility with real time integrity management and reporting.
- 2010** Discovery is launched globally at IPEX 2010, opening new markets throughout the document processing, digital print, and print quality inspection markets. Now supporting comprehensive inspection applications in the large scale variable data markets, Discovery supports the widest range of camera technology available.
- 2013** The GR and GE range of integrated, digital imaging modules is launched, moving Discovery to the GigE platform and enabling less complex integration for OEM markets.

We chose a Lake Image system because of its many unique software reporting capabilities. We were also very pleased with the outstanding customer education and sales support they provided us throughout the entire system integration.

A Great Product!

William A. James III
Adams Addressing Associates • NJ, USA

We chose to buy a Lake Image system because of its high quality and reliability, and of course the knowledge Lake Image have is outstanding. The system configuration that they recommended was exactly what we needed and gave us much higher production output.

Mendo Damevski
Sandéns Security Printing AB • Sweden

At Hally Labels we produce a range of security sensitive labels using variable data. Integrity is critical, and our Discovery system from Lake Image has enabled us to guarantee our print and data integrity whilst improving our productivity and reducing our waste.

Nick Keats • Operations Manager
Hally Labels • Christchurch, New Zealand

Lake Image has been instrumental in not only increasing our production rates, but achieving them whilst also delivering the high data integrity needed on match mailings. The support and follow up after the sale has been outstanding.

Paul Hawkins • Vice President,
Operations
Gabriel Group • USA

With over 3000 systems installed throughout the global printing industry our technology enables our clients to automate complex, intelligent, high value print jobs throughout their printing and finishing processes.

Mail Piece, Transactional and Transpromo Processing and Inserting

Read, track, verify and report on every piece and pack through the entire print and finishing process. Control high speed sheet feeders, collators and cutters, driving selective feeding, mailsort and outsort devices, with in-line inkjet printers for added value personalisation.

Digital Printing (Continuous)

Detect missing, duplicate and incorrect variable data issues. Grade barcodes to ISO and ANSI international standards, measure colour registration and identify print defects or duplex matching errors, significantly reducing waste and improving productivity.

Digital Printing (Cut Sheet)

Reconcile all variable print data per sheet against the sheet ID and original print file. Verify duplex print integrity, and identify general print defects and colour variation and registration issues.

Bindery and Stitching Processes

Detect incorrect signatures, while matching variable data inserts and covers. Drive selective and collation control and in-line inkjet personalisation. Control stackers and outsort devices for improved throughput and productivity.

Narrow Web and Label (presses and rewinders)

Identify variable data and print quality errors, reducing waste and improving productivity. Correct errors on press or rewriter using defect roll mapping.

Plastic Card Processes

Match or merge card to carrier data and verify scratch panel integrity while identifying duplicate and missing pieces. Drive in-line card or carrier personalisation and output batching, stacking, wrapping and sorting devices.

Security Print

Verify variable data sequencing, identifying missing, duplicate or unreadable pieces while providing a full audit trail across all processes.

Packaging and Labelling Processes

Inspect correct label combinations and placement. Verify date, batch and serial codes and barcode readability while verifying Braille data and quality.

Enterprise Wide Reconciliation and Data Integrity

Identify and track errors across multiple processes in a shared job environment, guaranteeing integrity throughout an entire print and finishing facility.

Network Connectivity, Reporting and Management Information

Deliver integrity and productivity data for comprehensive reporting and management information.



Discovery Multiscan is a suite of bolt-on camera and scanner based integrity verification and reporting solutions which integrate on new or legacy printing, inserting, bindery, plastic card and finishing equipment. Discovery Multiscan provides an affordable and field proven easy-to-use method of verifying and proving the integrity of documents, mail pieces, labels and packages.



Discovery PQ is a print quality monitoring and inspection system which integrates on new or legacy continuous and cut sheet printing equipment. Using ultra high resolution line scan cameras to image the entire printed web, Discovery PQ performs intelligent quality inspections based on an original template image, with fault diagnosis, alarm and defect roll mapping for post processing defect location and control.



With new digital print technologies driving full colour, fully variable print applications, Discovery Revolution combines the performance of Discovery Multiscan and PQ to provide a print quality and data integrity inspection solution which simultaneously identifies print defects and data integrity errors.



Discovery Enterprise is a centralised production management system which extends throughout an entire production facility. It is capable of tracking every stage of a document life cycle from digital composition through all stages of physical processing to output. It provides a tracking and reporting engine for Discovery Multiscan's quality inspection and integrity tools and maintains control of reported defects throughout the complete production process. For example, if a print quality or data integrity defect is detected on a sheet on a continuous printing system, the package associated with this page will be diverted on the finishing equipment. Additionally, as information is processed on the server rather than the individual local client, job batches can be split among multiple processing lines without compromising job integrity. Data replication ensures data security for the most critical applications.



When CPI Card Group need production integrity assurance Lake Image is the company we call. Be it inspecting inkjet printed barcodes to within our customer SLAs and ISO/ANSI grades; reading, tracking and matching coded cards and carriers or providing end to end production integrity, Lake Image Systems are our supplier of choice.

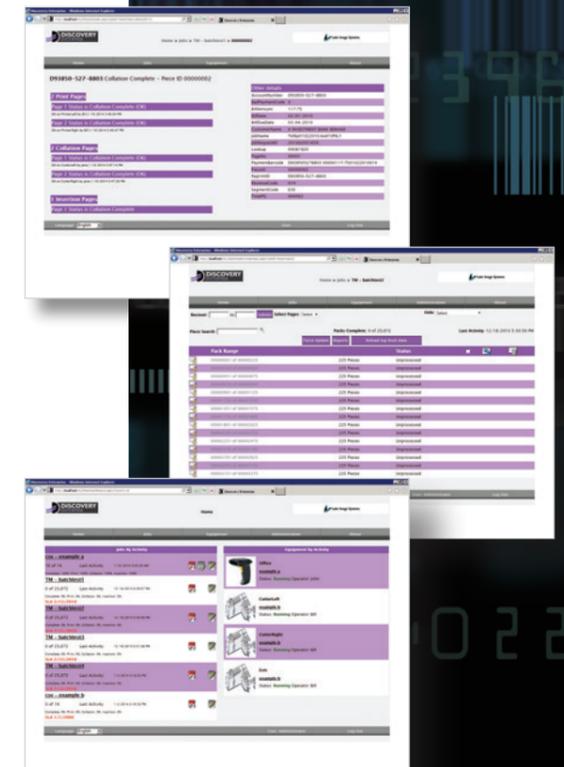
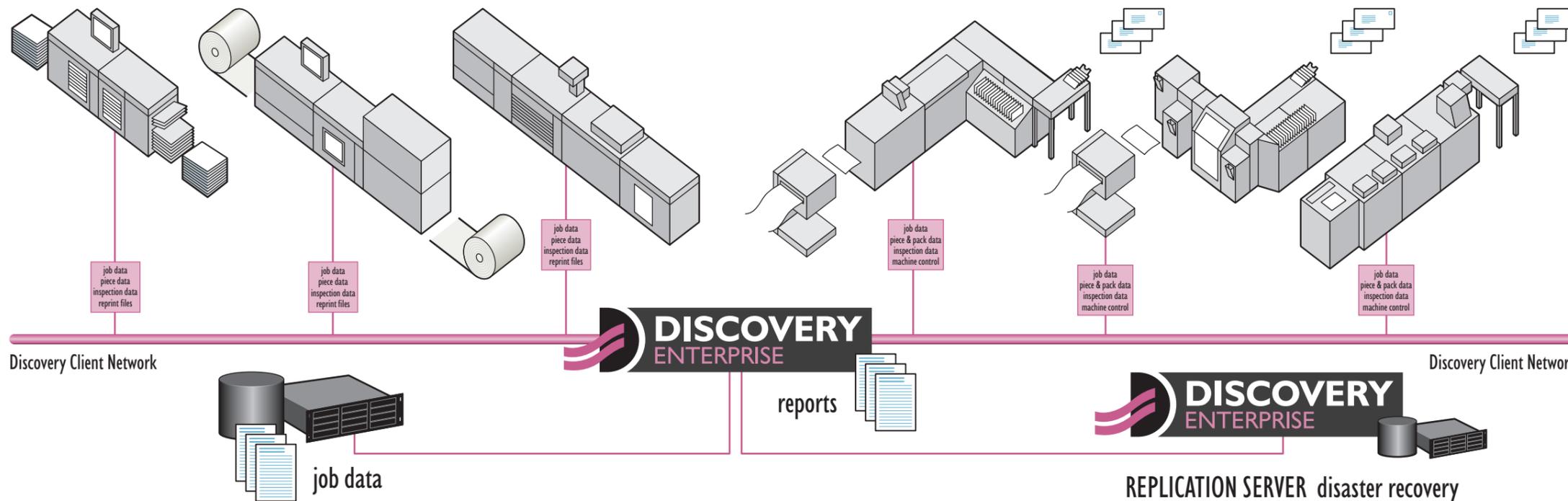
Ché Colford • UK Operations Director
CPI Card Group

Lake Image have been our partner for all print quality, data integrity and process control requirements for 10 years. We have implemented their technology across all aspects of our digital print and finishing processes, enabling us to constantly drive our business forward and exceed our clients' demanding needs for creativity and integrity. Lake Image continue to demonstrate how they are the leaders in their field, backing it up with excellent support and continual product development.

Barry Stephens • Production Director
Real Digital International • Croydon, UK

PRINTING cut sheet and continuous, duplex or simplex

FINISHING cutters, collators, folders inserters and bindery





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