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.
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 rewinder 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.
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

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 or 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.

Discovery Client Network
Replication Server
Disaster recovery

Printing cut sheet and continuous, duplex or simplex
Finishing cutters, collators, folders inserters and bindery

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