

FACT SHEET



DISCOVERY ENTERPRISE for LABELS

Automatic Print Inspection and Tracking for High Speed Production of Variable Data Labels.



PRODUCT OVERVIEW

Counterfeiting is a menace for brand owners, pharmaceutical manufacturers and Government authorities severely impact Income Tax, revenue streams and brand reputation. Labels play a vital role in containing this growing problem. Also, the growth in internet shopping and manufacturers producing product variants in great quantities, has resulted in an explosion in shipping and packaging labels.

From Tax Stamps on cigarettes and Liquor, shipping labels on packaging and high value consumer goods to anti-counterfeit drug labels, the use of smart labels incorporating serialisation, barcode and security marks with sophisticated tracing and tracking systems are on the increase. However ensuring the highest standards in variable data integrity, readability and quality of the labels during its production can be a major problem, resulting in enforcement and tracking issues further downstream.

Lake Image Systems Discovery System provides a comprehensive label integrity and quality control management and reporting solution that addresses these issues. The Discovery Enterprise server, connected by a network of Discovery MultiScan camera based clients reads, grades, logs and tracks each and every label during its print production and subsequent application. Defective labels are tracked and marked invalid or presented at the rewinder or inspection station for manual validation. A complete database of processed, missing, unreadable and duplicated labels are available for each label run for full audit traceability.

Once completed each label job data file can be integrated into virtually any track and trace system. A detailed report of each individual label within a job provides an exportable audit trail and exceptions list for re-processing.

Real Time, Multi Lane, Duplicate Label Checking

Unlike similar systems, each Discovery MultiScan client can read and process multiple labels (lanes) across the full width of web at speeds exceeding 300m per minute and feed this data back to the Discovery Enterprise server to log, report and make real-time decisions.

Furthermore labels across subsequent label runs are checked for duplication even over several months. These unprecedented data management and response times are due to newer Multi-Core processors, fast Gigabit network speeds and multithread programming technologies enabling Discovery Enterprise system to deal with the most challenging label production environment. Multi-Lane label processing minimises the number of MultiScan cameras and associated hardware costs providing a fast, cost effective solution.

Split A Label Job Over Several Printers

For large label runs (1M+ labels), the job can be split over several label printers, reducing overall production time for rush orders. Discovery Enterprises, effortlessly reads, checks and reports on read errors, print defects and duplication across all printers, significant increasing label productivity and throughput and minimising the need for manual checking and expensive re-runs or over-runs.

Web Based Reporting

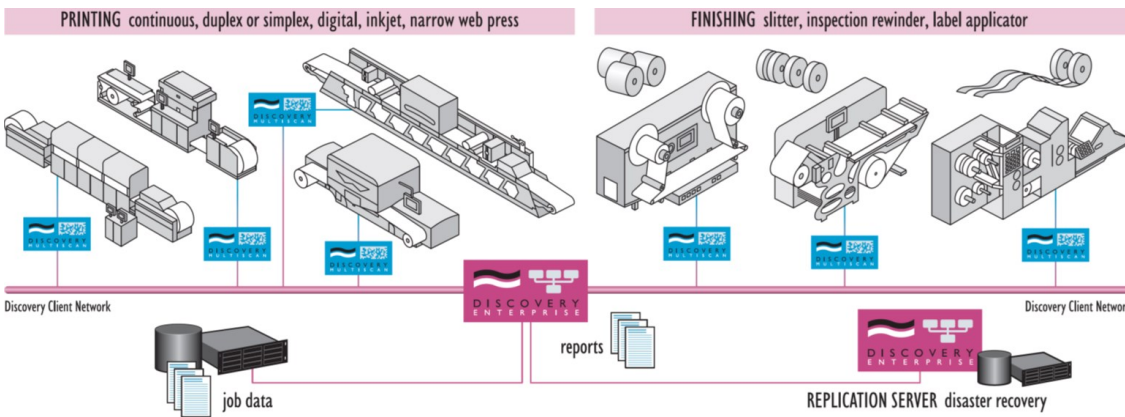
Production control is a demanding job which involves multiple personnel with diverse responsibilities. Production staff are expected to monitor and control the production status remotely and outside normal working hours. Discovery Enterprise provides a web based user interface enabling full control and status of each job displaying all relevant information via a web browser from anywhere in the world.

Cost Based Scalability

Whether you have a small label converting business or a full scale multi-site label converter production facility, Discovery Enterprise is scalable to fit your environment and more importantly your budget. At Lake Image, we understand that the need for quality and integrity control isn't just a concern for large volume production houses, it's every bit as important to smaller volume businesses. Discovery Enterprise is available at a very low cost but scalable to meet your businesses growing needs!



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DISCOVERY ENTERPRISE

- Easily Barcode Verify Set-up
- Real time tracking and control for multi-step label production processes
- Tracking incorrect, missing or duplicate labels across multiple label runs over several months.
- Dashboard overview of active equipment and jobs, with search, filter and sort tools
- Comprehensive data logging and Audit trail
- SLA deadlines with alarm notification
- Flexible data import, fixed width, CSV
- Near real time System Replication features for disaster recovery and security

DISCOVERY MULTISCAN

- Highly flexible Camera and Scanner input
- Decode OCR, BCR, 2D, QRCode, RFID
- Machine level integrity inspection: against input file or database
- Single-pass multi-lane Label scanning
- Match and logs multiple fields and regions
- Manage overall print quality with powerful inspection tools for reflective surfaces
- Continuous full or narrow web operation

CAPABILITIES

READS

- Variable Data
- OCR, Barcode, 2D
- QRcodes, Micro text
- Holograms, Foils
- Clear film
- Flexible Packaging

PROVEN ON

- Label Presses
- Narrow Web
- Slitters
- Rewinders
- Inspection stations
- Labelling Machines

APPLICABLE MARKETS & USES

- Shipping Labels - Courier and postage labels
- Licensing Labels - Anti-counterfeit Software License labels
- Tax Stamps - Alcohol and Cigarette Tax Stamps
- Pharmaceutical Labels - Drug & dosage verification
- Food Labels - Meat/Poultry packaging & proof of origination

LABEL INTEGRITY

- Verify for duplication across multiple label runs
- Verify variable data & barcodes against database
- Verify correct label being used
- Verify Label content: e.g. correct specified drug dosage
- Feed data to external Track and Trace systems

LABEL QUALITY INSPECTION

- Label content presence/readability/eligibility
- Check, verify and grade barcodes, anti counterfeit and specialised security marks are within required specifications

ADVANTAGES

- **Machine independent** - Can be retro-fitted to most existing printing and converting equipment
- **Reliable** - 100% verification of all variable data on labels. Uninterrupted detection of incorrect, duplicate or missing labels
- **Flexible** - Ability to deploy a broad set of tools to meet your specific industry requirements
- **User-Friendly** - Faster set-up & logical GUI layout
- **Supported** - Comprehensive maintenance contracts featuring remote diagnostics

BENEFITS

- **Lower Costs** - Automatically detects defective labels. Prevents costly reprints and reruns
- **Improved Productivity** - Automates manual label integrity & quality inspection processes
- **Increased Customer Satisfaction** - Ensure label production meets the standard agreed with your customer, support by detailed reports
- **Less Scrap / Less Waste** - Immediately prevent costly scrapping of large runs of defect print
- **Mitigate risks** - Ensure all labels are correct to industry and government specifications to mitigate risks & penalties

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