

LAKE IMAGE SYSTEMS

INTEGRITY
VERIFICATION
SOLUTIONS

Industry best verification
and reporting for printing, mail piece and
plastic card production processes



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"By working with Lake Image to automate our process, we have increased accuracy, efficiency, and overall productivity—all the while reducing our overall cost per piece."

Joel Levine
Westpress

"Lake Image continually proves to be the company to ask for process control and document integrity solutions. They always meet our expectations for performance, service and support."

Peter Rivett
Real Digital International

"Lake Image Systems' experience and unique solutions provided a quick transition to our new production environment. Only they met our demanding schedule with a product that's tried and proven in the industry."

Ray Clemmer
Direct Group



Established in 1994, Lake Image Systems provides industry best integrity verification, reporting and in-line printing solutions to the printing, mailing, plastic card and document processing markets. By working closely with our clients, we continually optimize the value of our solutions with a strong focus on the environment and processes which our technologies will influence.

Lake Image Systems develops solutions in-house, utilizing software, development and applications engineers recruited only from the printing and mailing industry. The results are user-friendly, serviceable and reliable solutions which provide the lowest total cost of ownership in the industry! Our efforts have resulted in:

- ISO 9001-2000 accreditation
- Over 2000 systems installed
- Manufacturing and development in USA & UK
- Extensive world-wide growth

1994 Lake Image Systems Ltd. formed to provide camera based verification solutions to the European document processing marketplace

1994 Lake Image Systems integrates first letter, insert, envelope PerfectMatch solution for 100% mail piece verification

1996 LIS develops MaxRead, providing industry's first "all-in-one" sealed camera to document processing marketplace

1998 Lake Image Systems opens new manufacturing plant in Wendover (UK)

1998 Lake Image Systems achieves ISO 9001-1994 accreditation

1998 Lake Image Systems, Inc formed in Rochester, NY to provide integrity verification solutions to the Americas

1999 Lake Image Systems installs first invisible ink verification system

2001 First generation of Windows based IntegraVision launched globally, providing comprehensive integrity verification and reporting

2003 Lake Image Quality Management Systems achieves ISO9000-2000 certification

2003 Lake Image Systems leads industry with introduction of IntegraJET "read & print" inkjet solution

2004 Lake Image Systems launches IntegraScan solution for comprehensive print quality and data integrity inspection for continuous and cut sheet printing applications

2005 Lake Image Systems, Inc opens new manufacturing facility in Rochester, NY

2005 Lake Image Systems moves into new purpose built manufacturing and development facility in Tring, UK

2007 Lake Image Systems launches Lake Image Systems France

2008 Lake Image Systems Asia opens its doors in Singapore

MATCHING, VERIFICATION AND "READ & PRINT" SYSTEMS ARE NOT CREATED EQUAL. YOUR CHOICE OF A TECHNOLOGY PARTNER MAY SIGNIFICANTLY IMPACT YOUR BUSINESS.

Our industry best integration expertise includes experience across all makes/models/generations of: inserters, card attachers, collators, stitchers, booklet makers, polywrappers, mailing tables, cut sheet printers, narrow web & label presses and continuous printing equipment. Proficient across all production and finishing processes, our solutions provide a uniform user interface and reporting structure across the enterprise.

With over 14 years experience and 2000 systems installed worldwide, Lake Image Systems provides fast, reliable and cost effective integrity verification, matching & in-line ink jet integration.

Lake Image Systems' IntegraVision and IntegraScan verification solutions:

- Add intelligence & life extension to legacy equipment
- Provide 100 % document accountability & matching
- Reduce labor expense (increase profit margins)
- Improve quality and customer satisfaction
- Increase throughput and overall production capacity
- Enable new business opportunities (increase overall revenue)



"Lake Image Systems' solutions allow us to process our marketing efforts in an automated fashion that optimizes personalization, improves production throughputs, and provides complete accountability of our processed items."

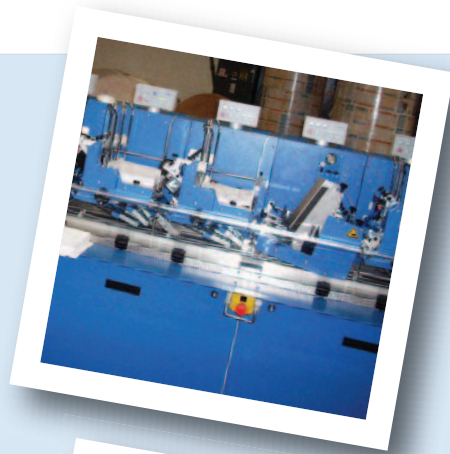
Tom Glassman
People to People

FIELD PROVEN CAPABILITIES



Mail Piece Processing/Inserting (inserters, mailing bases, self mailers)

- Matching
- IMB verification and tracking
- Output scanning
(missing/duplicate/double stuff detection)
- Tray/bundle break sorting
- Postal indicia verification and recording
- Base stock verification
- Input collation control
- Inserter control (database matching & selectivity)
- "Read & Print" envelope personalization



Continuous Printing (digital & offset presses)

- Front/back web matching
- Streak/void detection
- Number & bar-code legibility
- IMB verification
- Missing/duplicate piece detection
- Print quality inspection
- Bar-code grading



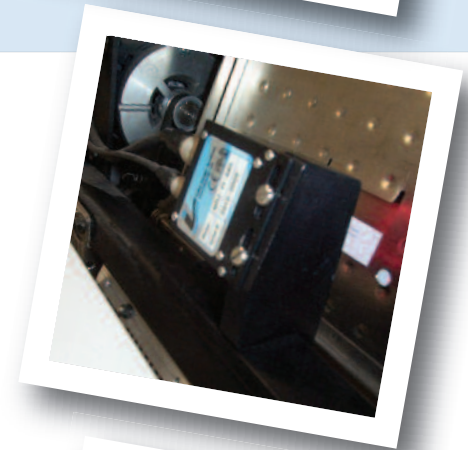
Plastic Card Processes (attachers & card personalization equipment)

- Card/carrier matching
- Pin number verification
- "Scratch Off" verification
- Magnetic stripe database verification
- Missing/duplicate piece detection
- In-line card/carrier personalization



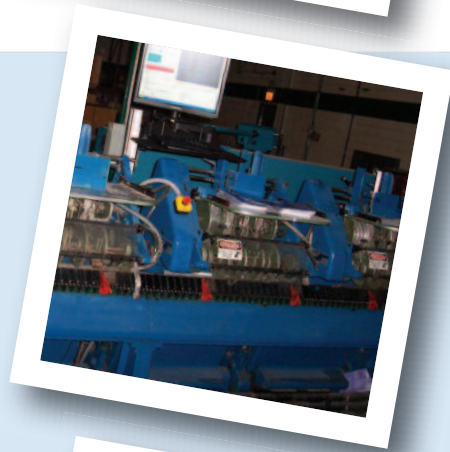
Cut Sheet Printing

- Base stock verification
- Sequential piece verification



Bindery/Stitching Processes (stitchers, polywrappers, collators, booklet makers, folders)

- Signature verification
- Signature & cover matching
- Collation control
- Missing/duplicate detection



Networkable Integrity Reporting

- Comprehensive audit trail of all pieces processed
- Defects reporting
- Job summary & production statistics reporting
- Date & time stamp of all events



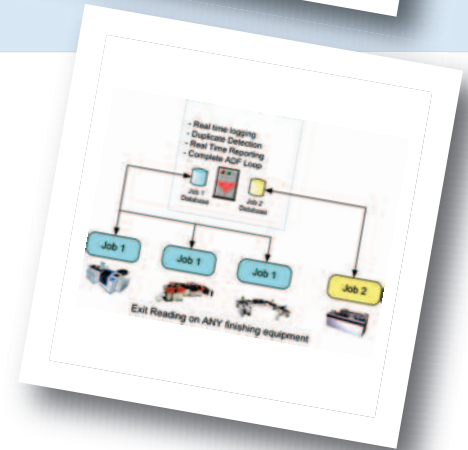
Narrow Web & Label (narrow web presses & rewinders)

- ePedigree verification
- Sequence inspection
(missing/duplicate inspection)
- Database comparison
(reconcile production to print file)
- Lottery ticket and security print inspection
- Bar-code grading



Enterprise Wide Reconciliation (ADF Integration)

- Reconcile jobs spread across multiple machines
- Real time status of every piece in production
- Automated reprint & productivity reports
- SLA measurement & notification



YOUR BUSINESS WILL BENEFIT FROM OUR INDUSTRY BEST VERIFICATION SOLUTIONS:



LIS' CAPABILITY

VALUE FOR YOUR BUSINESS

Industry's Best/Fastest Read Rates

- Greater accuracy
- Greater throughput
- Less rework
- Less spoilage

Broadest Range of Reading Symbologies

- OCR (any font with separated characters)
- Names/text (full upper and lower case characters)
- Linear barcodes (39, 128, 2 of 5, etc.)
- Pharmaceutical codes
- Data matrix
- PDF 417
- OMR
- Postal codes (IMB, Postnet, etc.)
- Invisible inks

- Most flexibility for handling any of your customer's matching & integrity verification requirements
- Ability to provide read & print and matching by reading names, sequence numbers, data matrix codes or barcodes

Broadest Range of Simultaneous Integrity Functionality

- Matching
- Name matching
- Database matching
- IMB verification & tracking
- Tray & bundle sorting
- Sequence inspection
- File audit
- Collation control
- Static (signature) verification
- Image archiving
- Streak/void detection
- Presence/absence
- Address masking
- Insertion control
- Image archiving
- Indicia verification
- Integrity reporting

- Superior quality verification for all jobs (not just matching jobs)
- Greater return on equipment investment
- Opportunity to capture additional business (increased revenue opportunities)
- Scalable software architecture provides low entry level cost
- Scalable software architecture allows any software tool to be purchased and turned on at any time

Sealed (Max) Cameras with No Focus/Lighting Adjustment

- Less set-up
- Quick job changeover
- Greater flexibility for multiple camera locations
- Small camera size with larger "field of view" than competitive offerings
- Higher read rates for data matrix & OCR

No Data Buffering for Read & Print

- Greater matching accuracy for envelope printing
- No removal of pieces when a jam occurs
- No repositioning of print files
- Greater throughput
- Less spoilage & rework

Thermal, Solvent & UV Based Inkjet Systems

- Comprehensive "Read & Print" solutions for broad range of substrates and print speeds
- LIS provides inkjet controller solutions to drive broad range of third party printheads

- Lower consumables cost
- Greatest flexibility for multiple substrates
- Open architecture supports broad range of inkjet printers
- Greater production speed (over 30,000 per hour)

Mean Time Between Service Calls > 4 Years

- More uptime = maximum productivity
- Reliability
- Lowest cost of ownership

Integration Experience Across the Production Enterprise

- Experienced with inserters, attachers, stitchers, collators, webs, etc.
- 14 years of verification experience
- Over 2000 systems installed

- Uniform user interface on any device
- Seamless integration & performance regardless of installation device

Lowest Total Cost of Ownership

- No mandatory maintenance agreements at time of purchase
- No ongoing software license costs
- Remote service, diagnostics, repair & training

- Greater return on investment
- Highest level of customer satisfaction
- Enhanced warranty & support contracts available upon request

Lake Image Verification, Matching & In-line printing solutions can be easily mounted on virtually all brands of:

- Inserters
- Card attachers
- Collators
- Stitchers
- Booklet makers
- Mailing tables
- Continuous print webs

IntegraVision Specifications

- 1-16 cameras
- Area scan & line scan cameras
- Barcode & mag. stripe readers
- Windows XP operating system
- Digital outputs for machine control
- Networkable reporting structure
- XML real time data outputs
- Remote diagnostics, service & training

IntegraVision Read Tools

- OCR (human readable fonts)
- 2-D codes (data matrix & PDF-417)
- OMR
- Postal barcodes (IMB)
- IMB quality verification
- Presence/absence
- Indicia reader
- Address masking

IntegraVision Integrity Tools

- Matching
- IQ text matching
- Batch/sort (tray/bundle break)
- File audit
- Sequence verification
- Static (signature) verification
- Stop and divert
- Collation control
- Database matching
- Inserter control
- Image archiving
- Piece level audit trail
- Job level productivity reporting