FACT SHEET

LAKE IMAGE

DISCOVERY PQExpress

Intelligent, Cost-Effective Print Quality Inspection with 100% Web Viewing

PRODUCT OVERVIEW

DISCOVERY PQExpress is a competitively priced and easy to implement print quality inspection system for monitoring 100% of a continuous web.

Using high performance imaging technology, web viewing and automated defect detection technology integrated into a cost-effective, compact, self-contained unit, printers can perform essential print quality inspection on their web printing, finishing, label converters and packaging print lines.

DISCOVERY PQExpress key features:

- Reliable Defect Detection - missing labels, matrix residue, die-cut errors

- Intelligent Web Viewing - an upgrade from traditional viewing

- High Speed - up to 350 m/min (1150 ft./min)

- Flexible Equipment Control - alarms, marking, equipment stop
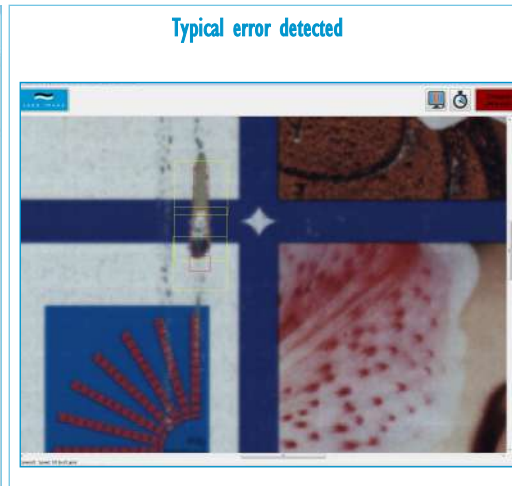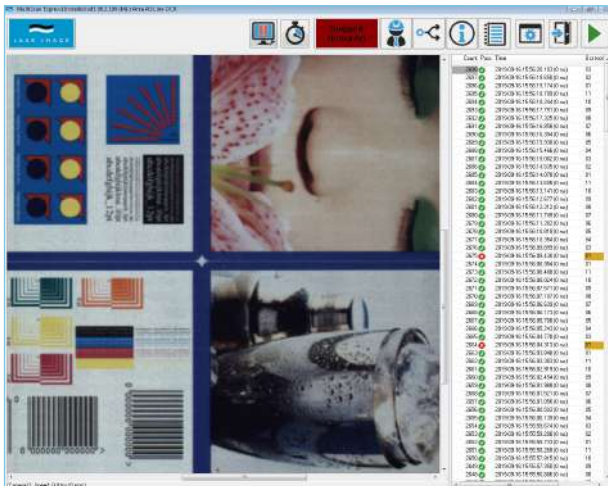
- Intuitive Design - quick set-up & adaptive learning.

DISCOVERY PQExpress is available:

- As a Packaged Solution - inspection camera, lighting, web rollers, housing, industrial PC and a touch screen monitor

- In 3 Web Widths - 330mm (13"), 430mm (17") & 530mm (21").

- Fully Configured & Supported - for fast installation.

OEMs can easily integrate the unit onto their equipment either as a standard or optional print quality feature for their clients.

DISCOVERY PQEXPRESS

FACT SHEET

Typical error detected

FEATURES

100% Web Viewing

- Uninterrupted operation for 100% full web monitoring
- Defect Analysis: colour coded, web position view of each defect along the web length

Defect Inspection

- Defect detection: streaks, smears, ink spots & voids
- Surface inspection: creases, bubbling & coating errors
- Missing labels. Label matrix residue detection
- Die-cut and positional variations
- Colour Variation (as part of print quality inspection)

Easily Set-up

- An intelligent, fast master image auto training
- Smart, quick system set-up with minimal sensor adjustments

Control

- On-screen live display of defects
- Operator Light & Audible Alarms/Warnings - Optional
- Rewinder Control/Jog/Stop - Optional
- Marking & flagging device - Optional

Defect History / Reporting

- Real-time on screen log (last 300 inspections)

WEB APPLICATIONS

- Commercial Print: Offset & Digital print
- Labels - Paper, clear, glossy labels. Multi-lane
- Packaging - Paper, films, cold/hot foils

SYSTEMS

- Fully integrated unit - Camera, lights, integrated rollers & triggers in housing. Supplied with industrial PC & monitor
- Press Speeds: up to 350 meters/min (1150 ft./min)

Inspection Unit

- Web widths: 330mm (13"), 430mm (17") & 530mm (21")
- Colour Camera: 5 megapixels
- Camera Interface: Gige Ethernet
- Resolution: 0.22mm/115DPI
- Minimum defect size: approx. 2mm x 2mm
- Lighting: Integrated long life L.E.D. White light
- Back-light - Optional
- Power: 24V DC

Processor

- OS: Windows™ 10 (64bit)
- Chassis: Industrial - CE Certified
- Power: 110-230V AC
- Interface: Touch Screen Monitor, keyboard & mouse

Installation / Integration

- Simple installation & integration
- Documentation, remote technical support and training

ADVANTAGES

- **Competitively priced** - An intelligent print quality inspection solution at an entry level price
- **Machine independent** - Can be retro-fitted to most existing printing and finishing equipment
- **Reliable** - 100% web viewing & defect reporting. Uninterrupted detection of defects
- **User-Friendly** - Faster set-up & logical GUI layout
- **Supported** - Comprehensive maintenance contracts featuring remote diagnostics.

BENEFITS

- **Lower Costs** - Automatically capture print quality defects. Prevents costly reprints
- **Improved Productivity** - Automate labour intensive print quality inspection processes for high speed production
- **Increased Customer Satisfaction** - Inspection meets requirements of large, demanding customers
- **Less Scrap / Less Waste** - Immediately prevent costly scrapping of large runs of defective print
- **Mitigate risks** - Ensure all jobs comply with customer requirements and government regulations.