The most sophisticated defect analysis in the industry for fast, easy detection

Inspection System on ICON delivers *true* 100 percent inspection on 100 percent of your print or non-print product—100 percent of the time
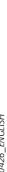
Utilizing the most advanced algorithms in the industry, the Inspection System on ICON can detect a wide variety of defects such as ink spots, register/color variation, content issues, and streaks.

Unlike other defect detection systems that only scan small sample areas, the Inspection System inspects the entire substrate width 100% of the time. Its modern high definition wide screen user interface allows for a less cluttered, more intuitive user experience. The screen supports large image sizes for defect analysis, and provides easy access to inspection features.

Features and Benefits

- Utilizes 64-Bit software architecture, with more algorithms analyzing the print for better performance.

- Advanced algorithms adapt the system to changing press conditions, ensuring optimal inspection at all critical phases of press operation including starts/restarts, splices, and all normal running speeds.

- A "Golden Template" reference image is acquired at the beginning of the print run. Every subsequent printed copy is compared to the Golden Template—resulting in a fixed, repeatable quality standard allowing the Inspection System to detect even the subtlest of defects.

- Tolerates web wander and stretch, detecting slow-growing defects using one Golden Template for the full print run.

- User interface provides defect masking and multiple defect sensitivities.

- A live, color-coded roll map allows operators to quickly identify different types of defects, and make fast decisions about defect severity and remedy.

- Dual-side inspection with customizable resolution, and specific features such as front-to-back register monitoring.

- To track defects for removal later in the workflow, the Inspection System stores all inspection and production data in a roll map database.

- Defects can be tagged physically or electronically, then communicated to the converting controller to automatically locate defective material for removal.

- Temperature-controlled LED lighting allows printers to view the printed substrate at the lowest level of granularity.

- Proprietary LED lighting design delivers highly stable light output for clean, high-quality inspection images and superior inspection performance.

The most sophisticated defect analysis in the industry

Features and Benefits (continued)

- Custom lighting designs are available for a variety of specific applications, including standard, reflective, trans-missive, and UV. Purpose-built lights accurately illuminate any substrate/ink combination.

- LED lighting maximizes light lifespan, minimizing cost of ownership.

- Expandable hardware architecture has the ability to scale up to an industry-leading eight line-scan cameras per system, providing superior image quality on larger fields of view.

- "Future-proof" architecture leverages leading software and hardware development platforms.

The Inspection System's live, color-coded roll map allows operators to quickly identify different types of defects, and make fast decisions about defect severity and remedy.