GUARDIAN PQV
Application Feature: Sheet Inspection

Eliminate Problem Defects

Complete inspection control from pre-press through shipping, the Guardian PQV offers sheetfed printers the most powerful, accurate, and reliable suite of inspection capabilities on the market. The system can be integrated with any printing press or other sheet handling machine. PC Industries stands behind their products with guaranteed performance specifications and world class customer support and service. That means no defects and no problems.

Process Flow for Sheet Inspection

Pre-Press
- Set the areas of interest for inspection
- Mark variable data areas and set acceptable values

On Press
- Train to a golden image, or verify against approved master file
- Review defects while press runs, transfer results to post-press

Defect Map
- Logs location, image, and operator action for each defect
- Review full resolution defect images and compare to master

Post-Press
- Interface with diverter to automatically sort based on defect
- Secure report includes defect images, operator log, job data

Archive
- Setup data is securely stored in a compressed SQL database
- Recall previous job data to reduce later set-up time

Select Capabilities

- 1D/2D Bar Code Decoding and ANSI/ISO Grading
- Blob tool for detecting substrate and print imperfections
- Defect Queue, Image Hold, and Zoom
- Dimensional and Registration Measurement
- External Data Matching
- Optical Character Recognition and Verification
- Program Selectable Color Filters
- Programmable, Variable Intensity LED Lighting
- Relative (∆E) Color Measurement
- Secure Audit Trail with Defect Images
- Sequential and Variable Data Verification
- White, UV, Transmissive, and IR LED Lighting Options
- 3 UV and 2 IR Wavelengths Selectable

PQV Sheet Inspection Benefits

- Automatically locates and records defects and position
- Works with nearly any press and post-press machine
- Helps operators locate and address process errors
- Provides 100% inspection and verification report
- Can be expanded or upgraded easily
- Documentable Quality Defects
- Reduces waste and down time

PC Industries, now part of BALDWIN | Vision Systems
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The wide range of inspection capabilities featured on PC Industries’ Guardian PQV address the high end inspection requirements demanded by the banknote and other security print industries. Powerful hardware and advanced inspection algorithms ensure that the Guardian PQV performs with speed and accuracy in every application, from basic, 100% inspection to the levels demanded in even the most rigorous of regulatory environments.

**100% Print Quality Verification:**
- Broken Print
- Missing Print
- Smears, Streaks, Hickeys
- Color Deviations
- Random Errors/Debris
- Material Imperfections

**Security Features:**
- Security Thread Integrity
- Watermark
- Microprint
- Fluorescent Fibers
- IR Reflective Ink or Coating
- IR Absorbent Ink
- Holograms
- RFID Location Verification

**Data Verification:**
- 1D/2D Code Decoding, Verification
- ANSI/ISO 1D/2D Code Grading
- Serial Number Verification
- Sequential Data Verification
- External Data Matching
- Optical Character Recognition
- Optical Character Verification
- Dimensional Gauging
- Braille

**LED Lighting:**
- White
- Ultraviolet Fluorescent
- RGB with programmable color
- Infrared
- Reflective
- Transmissive
- Programmable, Variable Intensity

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