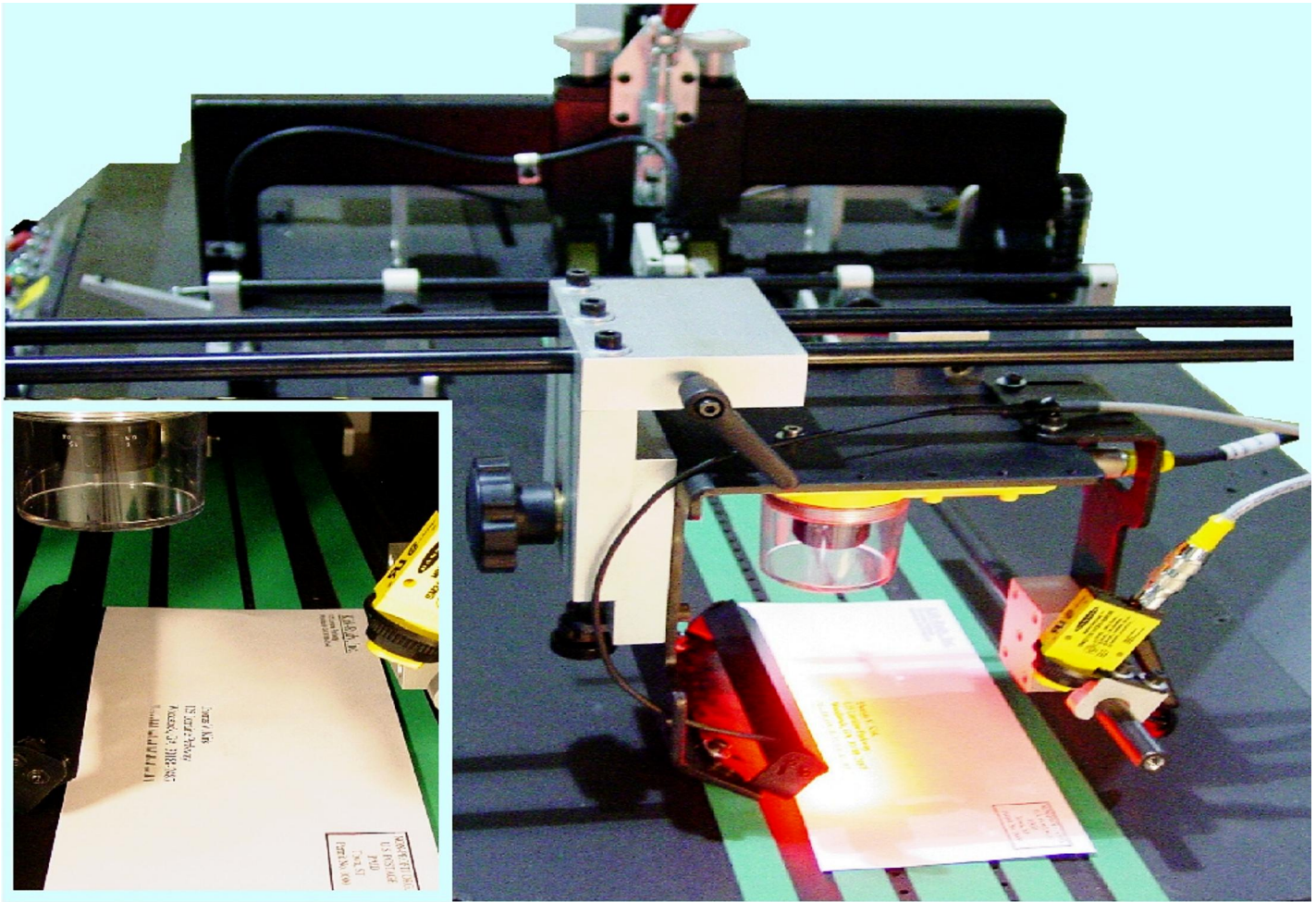


QC Barcode Checker

Scans Intelligent Mail and Postnet Barcodes for Readability



Take your addressing system to the next level with Kirk-Rudy's QC Barcode Checker. Use the QC system to verify that your inkjet system is printing high quality intelligent mail and postnet barcodes.

Consisting of the latest vision technology with easy to use software, the QC system examines each barcode for readability. Key parameters like bar width, spacing and overall length are monitored against defined specifications. Barcodes with smears or blank lines are also compared against allowable parameters and will trigger an alarm if they result in an out-of-spec condition.

One of the many benefits of the QC system is its reporting capability. Once a job is complete, reports showing each failed mail piece and its parameters are listed. Job statistics show parameter averages along with a pass/fail percentage.

Worry less and run your business better with the Kirk-Rudy QC Barcode Checker.

Kirk-Rudy, Inc. QC Report

Tuesday, February 21, 2006 9:04:21 AM Failures: 32/65 Readability: 50%

Product	Code	Check Digit	Bar	Voids (0.0150)	Entrance Ink	Connected Bars	Clearance	Width	Height	Max Bar (6.025)	Min Bar (6.015)	Max Space(0.040)	Min Space(0.012)
8		Bad	48	0.000	OK	OK	Bad	2.429	0.125	0.029	0.023	0.024	0.022
9		Bad	46	0.000	OK	OK	Bad	2.429	0.125	0.033	0.021	0.024	0.022
10		OK	50	0.000	OK	OK	Bad	2.430	0.125	0.029	0.023	0.024	0.021
11	5311520085	OK	50	0.000	OK	OK	Bad	2.430	0.125	0.029	0.023	0.024	0.022
17		Bad	52	0.000	OK	OK	Bad	2.430	0.125	0.029	0.023	0.024	0.022
20		Bad	52	0.000	OK	OK	Bad	2.430	0.125	0.029	0.023	0.024	0.022
22		Bad	52	0.000	OK	OK	Bad	2.430	0.125	0.029	0.023	0.025	0.023
24		Bad	52	0.000	OK	OK	Bad	2.430	0.125	0.029	0.023	0.024	0.022
25		Bad	52	0.000	OK	OK	Bad	2.430	0.125	0.029	0.023	0.024	0.022
26		Bad	52	0.000	OK	OK	Bad	2.430	0.125	0.029	0.023	0.024	0.022
28		Bad	52	0.000	OK	OK	Bad	2.430	0.125	0.029	0.023	0.024	0.022
30	5311520085	OK	52	0.000	OK	OK	OK	2.430	0.125	0.029	0.023	0.024	0.022
32	5311520085	OK	52	0.000	OK	OK	OK	2.431	0.125	0.029	0.023	0.024	0.022
34	5311520085	OK	52	0.000	OK	OK	OK	2.432	0.125	0.028	0.023	0.024	0.023
36	5311520085	OK	52	0.000	OK	OK	OK	2.434	0.125	0.029	0.023	0.024	0.023
38	5311520085	OK	52	0.000	OK	OK	OK	2.434	0.125	0.029	0.023	0.024	0.023
40	5311520085	OK	52	0.000	OK	OK	OK	2.434	0.125	0.029	0.023	0.024	0.023
42	5311520085	OK	52	0.000	OK	OK	OK	2.434	0.125	0.029	0.023	0.024	0.023
44	5311520085	OK	52	0.000	OK	OK	OK	2.434	0.125	0.029	0.023	0.024	0.023
46	5311520085	OK	52	0.000	OK	OK	OK	2.434	0.125	0.029	0.023	0.024	0.023
48	5311520085	OK	52	0.000	OK	OK	OK	2.434	0.125	0.029	0.023	0.024	0.023
50	5311520085	OK	52	0.000	OK	OK	OK	2.434	0.125	0.029	0.023	0.024	0.023
52	5311520085	OK	52	0.000	OK	OK	OK	2.434	0.125	0.029	0.023	0.024	0.023
54	5311520085	OK	52	0.000	OK	OK	OK	2.434	0.125	0.029	0.023	0.024	0.023
56	5311520085	OK	52	0.000	OK	OK	OK	2.434	0.125	0.029	0.023	0.024	0.023

Keep tabs of each job and the number of failures using the QC System's report generator. The report lists each marginal and failed barcode along with its parameters. Warning items are highlighted in yellow while failures are highlighted in red.

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General Specifications

Physical Dimensions: 36+L x 11+W x 16+H
Electrical Requirements: 120 VAC, 0.5 amps, 60 HZ

PC Requirements

The QC software is intended for use on PCs running most standard inkjet addressing systems.

Windows XP (Home or Professional, any SP version) or Windows 2000 (SP3 or later)

A Windows 2000 system needs at least Internet Explorer 5.01.

Minimum RAM: 256 MB

100 % verification up to 32,000 PPH depending on PC processor

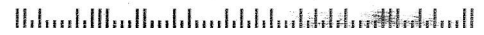
MERLIN Error Codes Analyzed by the QC System

- A . Bar is too tall
- B . Bar is too short
- C . Bar is too wide
- D . Bar is too narrow
- F . Void (area without ink)
- G . Extraneous ink present
- H . Baseline shift
- L . Bar pitch too close
- M . Bar pitch too far apart
- P . Barcode clearance problem (only vertical)
- R . Connected bars
- S . Barcode will not decode
- U . Bar space too close
- V . Bar space too far apart

The QC System does not perform the same barcode analysis as the USPS MERLIN system. There is no guarantee barcodes that pass the QC System will pass the MERLIN system. The QC System is simply a tool for analyzing barcode quality and suggesting improvements.

Error code output: Audible alarm
Feeder stop
Flashing light optional

Typical Barcode errors detected by the QC System



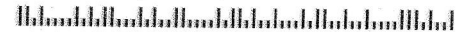
Smeared ink results in MERLIN error code R, Connected bars.



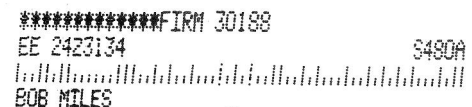
Extra ink in the barcode area causes MERLIN error code G, Extraneous Ink.



Clogged jets cause MERLIN error code F, Void (areas without ink).



Having the print head too far away from the mail piece makes the bars appear wide. MERLIN error code C limits bar width.



Not having enough clearance between the barcode and any information line limits the MERLIN systems ability to decode a barcode. MERLIN error code P requires a clear area between the barcode and any information line.