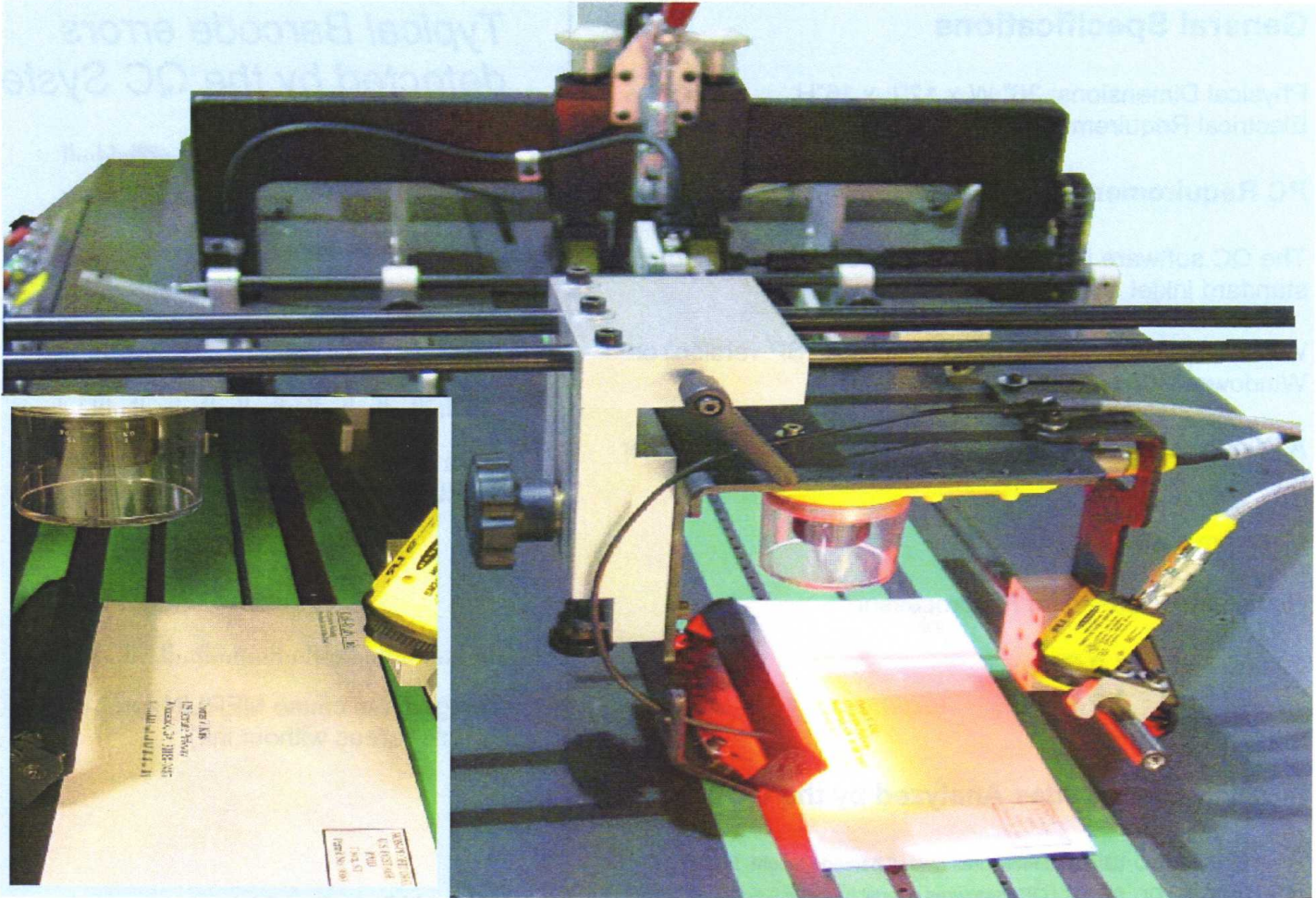


# QC Barcode Checker

Scans 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 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 Failure: 0/85 Readability: 50%

Product	Code	Check Digit	Item	Value (0-150)	Excessive Ink	Corrected Item	Observed	Width	Height	Min Bar (0.305)	Max Bar (0.375)	Min Space (0.440)	Max Space (0.510)
01	Barc	48	1500	OK	OK	Bad	2.429	0.328	0.229	0.622	0.424	0.320	0.320
02	Barc	05	1500	OK	OK	Bad	2.429	0.328	0.193	0.611	0.424	0.320	0.320
03	Barc	44	1500	OK	OK	Bad	2.430	0.328	0.190	0.622	0.424	0.320	0.320
04	Barc	50	1500	OK	OK	Bad	2.430	0.328	0.190	0.622	0.424	0.320	0.320
05	Barc	50	1500	OK	OK	Bad	2.430	0.328	0.190	0.622	0.424	0.320	0.320
06	Barc	50	1500	OK	OK	Bad	2.430	0.328	0.190	0.622	0.424	0.320	0.320
07	Barc	50	1500	OK	OK	Bad	2.430	0.328	0.190	0.622	0.424	0.320	0.320
08	Barc	50	1500	OK	OK	Bad	2.430	0.328	0.190	0.622	0.424	0.320	0.320
09	Barc	50	1500	OK	OK	Bad	2.430	0.328	0.190	0.622	0.424	0.320	0.320
10	Barc	50	1500	OK	OK	Bad	2.430	0.328	0.190	0.622	0.424	0.320	0.320
11	Barc	50	1500	OK	OK	Bad	2.430	0.328	0.190	0.622	0.424	0.320	0.320
12	Barc	50	1500	OK	OK	Bad	2.430	0.328	0.190	0.622	0.424	0.320	0.320
13	Barc	50	1500	OK	OK	Bad	2.430	0.328	0.190	0.622	0.424	0.320	0.320
14	Barc	50	1500	OK	OK	Bad	2.430	0.328	0.190	0.622	0.424	0.320	0.320
15	Barc	50	1500	OK	OK	Bad	2.430	0.328	0.190	0.622	0.424	0.320	0.320
16	Barc	50	1500	OK	OK	Bad	2.430	0.328	0.190	0.622	0.424	0.320	0.320
17	Barc	50	1500	OK	OK	Bad	2.430	0.328	0.190	0.622	0.424	0.320	0.320
18	Barc	50	1500	OK	OK	Bad	2.430	0.328	0.190	0.622	0.424	0.320	0.320
19	Barc	50	1500	OK	OK	Bad	2.430	0.328	0.190	0.622	0.424	0.320	0.320
20	Barc	50	1500	OK	OK	Bad	2.430	0.328	0.190	0.622	0.424	0.320	0.320
21	Barc	50	1500	OK	OK	Bad	2.430	0.328	0.190	0.622	0.424	0.320	0.320
22	Barc	50	1500	OK	OK	Bad	2.430	0.328	0.190	0.622	0.424	0.320	0.320
23	Barc	50	1500	OK	OK	Bad	2.430	0.328	0.190	0.622	0.424	0.320	0.320
24	Barc	50	1500	OK	OK	Bad	2.430	0.328	0.190	0.622	0.424	0.320	0.320
25	Barc	50	1500	OK	OK	Bad	2.430	0.328	0.190	0.622	0.424	0.320	0.320
26	Barc	50	1500	OK	OK	Bad	2.430	0.328	0.190	0.622	0.424	0.320	0.320

**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.**

# QC Barcode Checker

Scans Postnet Barcodes for Readability



## General Specifications

Physical Dimensions: 36" W x 12"L x 16"H  
Electrical Requirements: 120 VAC, 0.5 amps, 60 HZ

## PC Requirements

The QC software is intended for use on PC's 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

Run speed is based on PC processor:

10,000 PPH = 1.0 GHz  
15,000 PPH = 1.5 GHz  
20,000 PPH = 2.0 GHz

## MERLIN Error Codes Analyzed by the QC System

- A – Bar is too tall (QC measures overall barcode height, full bar only)
- B – Bar is too short (QC measures overall barcode height, full bar only)
- C – Bar is too wide
- D – Bar is too narrow
- F – Void (area without ink)
- G – Extraneous ink present
- L – Bar pitch too close (QC measures overall barcode length)
- M – Bar pitch too far apart (QC measures overall barcode length)
- P – Barcode clearance problem
- 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.



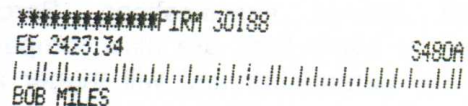
Extra ink in the barcode area causes MERLIN error code G, Extraneous Ink.



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.