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Explanation of the version changes - RJS Inspector 5000 Firmware

The Inspector 5000 firmware 1.202 changes from the previous 1.110:

- Modify bar code find process to increase priority of centered bar codes over 1D or 2D search order selected on the Setup menu
- Corrected bug in Code 93 check digit calculation
- Improved error handling for Code 128 and Code 93 decoders
- During calibration process, removed displayed calibration reflectance values used by the system during calibration

Datamatrix

- Improve bar code location when quiet zones have excessive graphics (including halftones)
- Modify displayed Grading tab parameters for Datamatrix symbols and added functionality to grey out unused parameters
- Set maximum aperture to 60 mil (75mil module size)
- Improve L pattern line determination to support ignoring extraneous pixels adjacent to the L pattern
- Modified Reflectance Margin center pixel calculation

The Inspector 5000 firmware 1.110 changes from the previous 1.109:

- Allow for AI(30) – variable count to be encoded without the requirement of AI(00), AI(01), or AI(02) at a prefix
- Improve handling of quiet zones for UPC-A with addendums
- Add firmware to handle corner cases

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The Inspector 5000 firmware 1.109 changes from the previous 1.108:

- Integrated GS1 Datamatrix to library and standardized with GS1-128 library
- Corrected communication string header for TP140A/B
- Corrected decode error when a partial scan of a Shipping Container Code occurs
- Removed extraneous <null> characters in Bar/Space printout
- Changed "USS 93" to "Code 93" on Grade tab
- Fixed coloring issues on the Profile tab
- Fixed Auto Optic and CR3 Scanner orientation after backward scan on the Profile tab
- Removed Erase DB Date Range menu item on the Setup tab
- Modified Erase DB menu item to clear entire database on the Setup tab

The Inspector 5000 firmware 1.108 changes from the previous 1.005 (1.004 through 1.107 not released):

- New Setup option for re-grading for ITF-14 and Code 128
- Show numeric grade for parameters on Grade tab when Metric is selected from the Setup menu

- Implement latest ISO/IEC specification Defects determination.
- Application Compliance history display shows details when the cursor is on the first line
- Added ITF-14 message pop ups
- Change to a special font character to reduce previous the four character message "<F1>" to a single character F1
- Change to a special font character to reduce previous the four character message "<SP>" to a single character Sp
- Corrected Encode tab display issue with EAN-13 bar codes, check digit was displayed twice (once as data and once as the check digit)

The Inspector 5000 firmware 1.105 changes from the previous 1.008 (1.009 through 1.104 not released):

- When a Code 128 or GS1-128 bar code is scanned, if different type (as compared to the Setup parameter) user is given the option to modify the Setup parameter
- Display Pass/Fail screen after final scan when set to multi-scan (2-10 scan average)
For single scan or Continuous scan (CR2/CR3) the Pass/Fail Setup parameter determines if the Pass/Fail screen is displayed
- Increased Bar/Space count value on Grading tab to 3 digits
- For Pass/Fail parameters, use the Setup value for "Minimum Passing Grade" when calculating the average parameter result
- Changed the calibration instructions and added an end-of-calibration screen
- Changed Application Compliance results to add "W" (warning) in history for narrow bar width
- Added the total number of combined Bars and Spaces to the Grading tab
- Corrected Code 93 bus for "too few characters error" with bar codes encoding 5 or less digits for an issue if last encoded character was a stop character
- Corrected "Intercharacter gap" to use all scans in the averaging for the displayed parameter result
- Corrected Decode and Edge Determination error as part of Reference Decode error
- When scanner is changed, system displays the Grade screen and the Profile is cleared
- Added calibration dates to Status/Instruction screen
- 2D Camera with support for 1D verification only
- Added the ability to log off from the I-5000 web server interface

The Inspector 5000 firmware 1.008 changes from the previous 1.007:

- Correct erroneous calibration expired messages displayed when in Laser (partial ISO/ANSI) mode

The Inspector 5000 firmware 1.007 changes from the previous 1.004 (1.005 and 1.006 not released):

- Allow Setup Parameters, Minimum Passing Grade and Minimum Marginal Grade to be within 0.1 of each other
- Bar code inspections when field calibration is expired:
 - Calibration warning after every scan
 - Non-calibrated scans are not saved in Reports
 - Printing options are disabled for non-calibrated scans

The Inspector 5000 firmware 1.004 changes from the previous 1.003:

- Printer output modified to enable use of the printer feed button on the TP140A printer
- Allow for bar code inspection when field calibration is expired:
 - Pop-up message that inspection results were captured with an out of date calibration
 - Grade tab displays yellow bars around the overall grade results to indicate inspection data may be invalid
 - Prohibit printing of inspection results for inspection results were captured with an out of date calibration
 - Reorganize Setup screen items into logical groups

The Inspector 5000 firmware 1.003 changes from the previous 1.001 (1.002 not released):

- Allow for an unnecessary FNC1 character at the end of GS1-128 bar codes
- Add a Setup option "GS1-128 END FNC1" to *allow* or *not allow* an unnecessary FNC1 character at the end of GS1-128 bar codes
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The Inspector 5000 firmware 1.001 changes from the previous 0.999 (1.000 not released):

- Optimize ISO15416 (2016) verification library for Defects and Decodability

The Inspector 5000 firmware 0.999 changes from the previous 0.986:

- Correct quiet zone rounding issue for ITF-14 symbology
- Updates to the Grading tab
- Updates to verification library for scan averaging
- Automated recovery to resolve back light failure
- Implement requirements for forced calibration of Auto Optic and 2D Scanners

The Inspector 5000 firmware 0.986 changes from the previous 0.985:

- Changed detection threshold used to detect CR2/CR3 Laser scanners
- Added support for using the Laser trigger to exit low-power mode - if trigger is held scan mode starts after a small startup delay
- Changed NBW calculator from a popup to a primary screen to be consistent with other sub-screens